Dear Students,

We are excited to welcome you to UAA. With nearly 20,000 students on five campuses, UAA is Alaska’s largest source of post-secondary education and workforce training.

You are coming to UAA at a time of change and growth. This fall we will open the new ConocoPhillips Integrated Sciences Building (CPISB). This state-of-the-art facility features 120,000 square feet that includes a 100-seat multimedia auditorium, labs and a planetarium. CPISB will provide greater opportunities for high-quality student instruction and research opportunities. It will help us accommodate the extraordinary growth we are experiencing in science classes for students in Alaska’s highest-demand job fields such as engineering, nursing and biology.

UAA serves a wide range of students and we understand that success has many measures. UAA’s Honor College provides undergraduates with wonderful research opportunities and positions students for prestigious academic awards. For the past four years UAA students have been selected as Truman Scholars, and this year, for the first time, a UAA student received a Marshall Scholarship.

Our student athletes have also gained national recognition. The Seawolf women’s basketball team (31-4) ended the 2008-09 season ranked No. 3 in the nation, posting the second most victories behind No. 1 Minnesota State (32-2). UAA set the Western Collegiate Hockey Association (WCHA) record for the most hockey players making the academic all-conference team in the 50-plus year history of the WCHA. Our track and field athletes have also been breaking records: David Registe was named UAA Athlete of the Year and the Great Northwest Athletic Conference (GNAC) male Athlete of the Year in 2009.

Serving Alaska is important to us. We are trying to educate and train Alaska’s future doctors, accountants, engineers, teachers and business and community leaders. We are proud of the fact that eight out of 10 of our graduates live and work in Alaska. We believe that college is a time to explore ideas and get the educational training you need to pursue your passions. We believe it’s also a time for you to discover how you can contribute to your community. Many service opportunities are provided for students, staff and faculty. One example that is important to our future is being a good steward of our resources. Last fall UAA signed an agreement with our U-Med district partners to become the first Green District in the state. UAA has its own Office of Sustainability. We have measured our carbon footprint and are committed to reducing it.

Some students know exactly what their educational goals are; others are less certain. We offer one-year certificates, two- and four-year degrees, master’s degrees and a joint Ph.D. Inside this catalog you will find hundreds of courses. We truly hope that one will be the perfect fit for you.

We wish you much success as your pursue your education at UAA!

Sincerely,

Fran Ulmer
Chancellor
It is the responsibility of the individual student to become familiar with the policies and regulations of UAA printed in this catalog. The responsibility for meeting all graduation requirements rests with the student. Every effort is made to ensure the accuracy of the information contained in this catalog. However, the University of Alaska Anchorage Catalog is not a contract but rather a guide for the convenience of students. The University reserves the right to change or withdraw courses; to change the fees, rules, and calendar for admission, registration, instruction, and graduation; and to change other regulations affecting the student body at any time. The University of Alaska Anchorage includes the units of Anchorage, Kenai, Kodiak, and Matanuska-Susitna.

It is the policy of the University of Alaska to provide equal education and employment opportunities and to provide service and benefits to all students and employees without regard to race, color, religion, national origin, age, sex, veteran status, physical or mental disability, marital status, pregnancy, or parenthood. This policy is in accordance with the laws enforced by the Department of Education and the Department of Labor, including Presidential Executive Order 11246, as amended, Title VI and Title VII of the 1964 Civil Rights Act, Title IX of the Education Amendments of 1972, the Public Health Service Act of 1971, the Veterans' Readjustment Assistance Act of 1974, the Vocational Rehabilitation Act of 1973, the Age Discrimination in Employment Act of 1967, the Equal Pay Act of 1963, the 14th Amendment, EEOC's Sex Discrimination Guidelines, and Alaska Statutes 18.80.220 and 14.18. Inquiries regarding application of these and other regulations should be directed to the University of Alaska Anchorage's Director of Campus Diversity and Compliance, the Office of Civil Rights (Department of Education, Washington, DC), or the Office of Federal Contract Compliance Programs (Department of Labor, Washington, DC).
SCHOOLS AND COLLEGES

COLLEGE OF ARTS AND SCIENCES
(907) 786-1707  http://cas.uaa.alaska.edu
Dr. James Jakob Liszka, Dean  FAX (907) 786-4630
Social Sciences Building (SSB), Room 335

COLLEGE OF BUSINESS AND PUBLIC POLICY
(907) 786-4100  www.cbpp.uaa.alaska.edu
Dr. Elisha Baker, Interim Dean  FAX (907) 786-4131
Edward and Cathryn Rasmuson Hall (RH), Room 301

COLLEGE OF EDUCATION
(907) 786-4401  http://coe.uaa.alaska.edu
Dr. Mary Snyder, Dean  FAX (907) 786-4445
Professional Studies Building (PSB), Room 234

COLLEGE OF HEALTH AND SOCIAL WELFARE
(907) 786-4406  http://chsw.uaa.alaska.edu
Dr. Cheryl Easley, Dean  FAX (907) 786-4440
Professional Studies Building (PSB), Room 205

COMMUNITY AND TECHNICAL COLLEGE
(907) 786-6400  www.uaa.alaska.edu/ctc
Dr. Sandra Carroll-Cobb, Interim Dean  FAX (907) 786-6401
University Center (UC), Room 141

SCHOOL OF ENGINEERING
(907) 786-1900  www.engr.uaa.alaska.edu/soe
Dr. Robert Lang, Dean  FAX (907) 786-1079
Engineering Building (ENGR), Room 201

UNIVERSITY HONORS COLLEGE
(907) 786-1086  www.uaa.alaska.edu/honors
Ronald Spatz, Dean  FAX (907) 786-1060
Edward and Cathryn Rasmuson Hall (RH), Room 119

COMMUNITY CAMPUSES

CHUGIAK-EAGLE RIVER CAMPUS
(907) 694-3313  http://eagle.uaa.alaska.edu
Peter G. Risse, Director  FAX (907) 694-1491
10928 Eagle River Road, Suite 228
Eagle River, Alaska 99577

KENAI PENINSULA COLLEGE
(907) 262-0330  www.kpc.alaska.edu
Gary J. Turner, College Director  FAX (907) 262-0322
156 College Road
Soldotna, Alaska 99669

 ANCHORAGE EXTENSION SITE
(907) 786-6421  www.kpc.alaska.edu/anchorage
Marianne Wood, Program Support  FAX (907) 786-6414
University Center
3901 Old Seward Highway
Anchorage, Alaska 99503

KACHEMAK BAY CAMPUS
(907) 235-7743  www.homer.alaska.edu
Carol Swartz, Campus Director  FAX (907) 235-1686
533 E. Pioneer Avenue
Homer, Alaska 99603

KENAI RIVER CAMPUS
(907) 262-0330  www.kpc.alaska.edu
34820 College Drive
Soldotna, Alaska 99669

MINING AND PETROLEUM TRAINING SERVICE
(907) 262-2788  www.mapts.uaa.alaska.edu
Denis Steffy, Director  FAX (907) 262-0288
34820 College Drive
Soldotna, Alaska 99669

ANCHORAGE OFFICE (907) 786-6413
Dena Bennett, Program Support  FAX (907) 786-6414
3901 Old Seward Highway
Anchorage, Alaska 99503

RESURRECTION BAY EXTENSION SITE
(907) 224-2285  www.kpc.alaska.edu/resurrection
Jackie Marshall, Coordinator  FAX (907) 224-3306
P. O. Box 1049
Seward, Alaska 99664

KODIAK COLLEGE
(907) 486-4161  www.koc.alaska.edu
Barbara J. Bolson, Director  FAX (907) 486-1257
117 Benny Benson Drive
Kodiak, Alaska 99615

MATANUSKA-SUSITNA COLLEGE
(907) 745-9774  www.matsu.alaska.edu
Dennis Clark, Director  FAX (907) 745-9711
P. O. Box 2889
Palmer, Alaska 99645

MILITARY EDUCATION SERVICES

ANCHORAGE AREA MILITARY EDUCATION SERVICES
Elmendorf Air Force Base (907) 753-0204
Mel Kalkowski, Director  FAX (907) 753-8390
3 MSS/DPE 4109 Bullard Avenue, Suite 107
Elmendorf AFB, Alaska 99506

Fort Richardson Army Post (907) 428-1228
Mel Kalkowski, Director  FAX (907) 428-1002
Bldg. 7, Chilkoot Avenue
Fort Richardson, Alaska 99505

AFFILIATE COLLEGE

PRINCE WILLIAM SOUND COMMUNITY COLLEGE
(907) 834-1600  www.pwscc.edu
Douglas Desorcie, President  FAX (907) 834-1627
P. O. Box 97
Valdez, Alaska 99686
with centers at Cordova and Copper Basin
**ACADEMIC PROGRAMS**

UAA offers certificate, associate, baccalaureate, and master’s degree programs in over 130 major study areas. The availability of small classes provides accessibility to faculty. In addition, the University offers tailored short courses, workshops, and seminars throughout the year, as well as institutes and conferences.

The following list of certificates and degrees offered by the University of Alaska Anchorage indicates the diverse educational opportunities available to students.

### Campuses Offering Programs

- **CAS**: College of Arts and Sciences
- **CBPP**: College of Business and Public Policy
- **CHSW**: College of Health and Social Welfare
- **COE**: College of Education
- **CTC**: Community and Technical College
- **HC**: University Honors College
- **SOE**: School of Engineering

### Undergraduate Programs

#### Occupations Endorsement Certificates

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<td>215</td>
<td>CTC</td>
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**BACHELOR OF SOCIAL WORK (AI)**

<table>
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<tr>
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<td>Addiction Studies (AI)</td>
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<td>Adventure Leadership (AI)</td>
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<td>Art (AI)</td>
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<tr>
<td>Art Education (AI)</td>
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<td>Art (AI)</td>
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<td>CAS</td>
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<tr>
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<td>Biological Sciences (AI)</td>
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<td>Business Administration (AI)</td>
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<td>Computer Systems Engineering (AI)</td>
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<tr>
<td>Electrical Engineering (AI)</td>
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<tr>
<td>English (AI)</td>
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<td>CAS</td>
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<tr>
<td>Environmental Studies (AI)</td>
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<td>CAS</td>
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</table>
General Engineering (AI)  232  SOE
Geography (AI)  103  CAS
Geological Sciences (AI)  105  CAS
Gerontology (AI)  149  CHSW
Health and Fitness Leadership (AI)  197  CTC
History (AI)  106  CAS
International North Pacific Studies (AI)  108  CAS
Journalism and Public Communications (AI)  110  CAS
Justice (AI)  154  CHSW
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- Elementary Education  244  COE

**Graduate Programs**

**Master's Degrees**

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**Master of Arts**

- Anthropology (AI)  256  CAS
- English (AI)  262  CAS
- Interdisciplinary Studies (AI)  252  CAS
- Teaching (AI)  270  COE

**Master of Business Administration**

- General Management (AI)  265  CBPP

**Master of Civil Engineering (AI)**  299  SOE

**Master of Education**

- Counselor Education (AI)  274  COE
- Early Childhood Special Education (AI)  275  COE
- Educational Leadership (AI)  276  COE
- Master Teacher with Specialty Options (AI) **Suspended**  276  COE
- Special Education (AI)  276  COE

**Master of Fine Arts**

- Creative Writing and Literary Arts (AI)  262  CAS

**Master of Public Administration (AI)**  268  CBPP

**Master of Public Health**

- Public Health Practice (AI)  287  CHSW

**Master of Science**

- Applied Environmental Science and Technology (AI)  295  SOE
- Arctic Engineering (AI)  297  SOE
- Biological Sciences (AI)  258  CAS
- Career and Technical Education (AI)  293  CTC
- Civil Engineering (AI)  298  SOE
- Clinical Psychology (AI)  259  CAS
- Computer Science (AI)  261  CAS
- Engineering Management (AI)  300  SOE
- Global Supply Chain Management (AI)  266  CBPP
- Interdisciplinary Studies (AI)  252  CAS
- Nursing Science (AI)  284  CHSW
- Project Management (AI)  301  SOE
- Science Management (AI)  300  SOE
- *Joint Collaborative Program*

**Master of Social Work (AI)**  290  CHSW

**Graduate Certificates**

- Clinical Social Work Practice (AI)  291  CHSW
- Counselor Education (AI)  278  COE
- Dietetic Internship (AI)  292  CTC
- Earthquake Engineering  300  SOE
- Educational Leadership: Principal (AI)  279  COE
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- e-Learning (AI)  280  COE
- Environmental Regulations and Permitting (AI)  294  SOE
- Family Nurse Practitioner (AI)  286  CHSW
- Language Education (AI)  280  COE
- Nursing Education (AI)  287  CHSW
- Port and Coastal Engineering  301  SOE
- Psychiatric and Mental Health Nurse Practitioner (AI)  286  CHSW
- Social Work Management (AI)  291  CHSW
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- Supply Chain Management  267  CBPP

**Doctoral Programs**

- Biological Sciences  259  CAS
- (Cooperative Program with UAF)
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University of Alaska Anchorage 2009-2010 Catalog
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**INSTITUTIONAL ACCREDITATION**

UAA is accredited by the Northwest Commission on Colleges and Universities (NWCCU), one of six Higher Education Regional Accrediting Associations recognized by the U.S. Department of Education.

Accreditation is a process of recognizing educational institutions for performance, integrity, and quality that entitles them to the confidence of the educational community and the public. The dedication of UAA to the continuation of that performance, integrity, and quality is displayed in the credentials and accomplishments of the faculty, the breadth, depth, and substance of the academic programs, and in the availability and quality of services to the students and the community.

**PROGRAM ACCREDITATION**

When available, individual academic programs often seek verification that their program of studies and student outcomes meet national standards established by independent associations or governmental agencies. That verification is documented as a program accreditation. Students who complete an accredited curriculum enjoy additional confidence that experts in that field have evaluated the program and testified to its quality. Program accreditation may also enable students to more easily obtain professional certifications or registration.

The following programs have approval and/or accreditation from agencies external to UAA.

| ART | | | | |
| --- | --- | --- | --- |
| Bachelor of Arts, Bachelor of Fine Arts | Accredited by the National Association of Schools of Art and Design (NASAD) |

| AUTO DIESEL TECHNOLOGY | | | |
| --- | --- | --- |
| Associate of Applied Science in Heavy Duty Transportation and Equipment |
| Associate of Applied Science in Automotive Technology with options in General Automotive, Ford ASSET, and General Motors ASEP |
| Undergraduate Certificate in Automotive Technology |
| Accredited by the National Institute for Automotive Service Excellence |

| AVIATION TECHNOLOGY | | | |
| --- | --- | --- |
| Certificate and Associate of Applied Science in Aviation Maintenance Technology |
| Approved by the Federal Aviation Administration |
| Associate of Science in Professional Piloting and Bachelor of Science degree in Aviation Technology with a Professional Piloting emphasis |
| Approved by the Federal Aviation Administration |

| BIOMEDICAL TECHNOLOGY | | | |
| --- | --- | --- |
| Accredited by the Liaison Committee on Medical Education of the Association of American Medical Colleges - Through the University of Washington School of Medicine by agreement with the states of Washington, Wyoming, Alaska, Montana, and Idaho (WWAMI) |

| CIVIL ENGINEERING | | | |
| --- | --- | --- |
| Bachelor of Science |
| Accredited by ABET, Inc. |

| COLLEGE OF BUSINESS AND PUBLIC POLICY | | | |
| --- | --- | --- |
| Bachelor of Business Administration in Accounting, Economics, Finance, Global Logistics and Supply Chain Management, Management, Management Information Systems, and Marketing |
| Bachelor of Arts in Economics |
| Master of Business Administration |
| Master of Science in Global Supply Chain Management |
| Accredited by the Association to Advance Collegiate Schools of Business International (AACSB) |

| COLLEGE OF EDUCATION | | | |
| --- | --- | --- |
| Accredited by the National Council for Accreditation of Teacher Education (NCATE) |
| All education certification and endorsement programs are approved by the Alaska Department of Education and Early Development and are based on NCATE standards. |

| DENTAL ASSISTING | | | |
| --- | --- | --- |
| Certificate |
| Associate of Applied Science |
| Accredited by the Commission on Dental Accreditation of the American Dental Association |

| DENTAL HYGIENE | | | |
| --- | --- | --- |
| Associate of Applied Science |
| Accredited by the Commission on Dental Accreditation of the American Dental Association |

| DIETARY INTERNSHIP | | | |
| --- | --- | --- |
| Graduate Certificate |
| Approved by the American Dietetics Association Commission on Accreditation |

| GEOGRAPHY | | | |
| --- | --- | --- |
| Bachelor of Science |
| Accredited by the Applied Science Accreditation Commission of ABET, Inc. |

| HUMAN SERVICES | | | |
| --- | --- | --- |
| Associate of Applied Science |
| Bachelor of Human Services |
| Accredited by the Council for Standards in Human Service Education (CSHSE) |

| JOURNALISM AND PUBLIC COMMUNICATIONS | | | |
| --- | --- | --- |
| Bachelor of Arts |
| Accredited by the Accrediting Council on Education in Journalism and Mass Communication |

| MEDICAL ASSISTING | | | |
| --- | --- | --- |
| Associate of Applied Science |
| Accredited by the National Accrediting Agency for Clinical Laboratory Science (NAACLS) |

| MEDICAL TECHNOLOGY | | | |
| --- | --- | --- |
| Bachelor of Science |
| Accredited by the National Accrediting Agency for Clinical Laboratory Science (NAACLS) |

| MUSIC | | | |
| --- | --- | --- |
| Bachelor of Arts |
| Bachelor of Arts, with Emphasis in Music Education |
| Bachelor of Music, Performance |
| Accredited by the National Association of Schools of Music (NASM) |

| NURSING | | | |
| --- | --- | --- |
| Associate of Applied Science |
| Bachelor of Science |
| Master of Science |
| Accredited by the National League for Nursing Accreditation Commission Approved by Alaska Board of Nursing |

| OCCUPATIONAL THERAPY | | | |
| --- | --- | --- |
| Occupational Therapy Doctorate offered by Creighton University with collaboration of UAA |
| Accredited by the Accreditation Council for Occupational Therapy Education |

| PARALEGAL STUDIES | | | |
| --- | --- | --- |
| Certificate |
| Approved by the American Bar Association |

| PROCESS TECHNOLOGY | | | |
| --- | --- | --- |
| Associate of Applied Science |
| Approved by the Alaska Process Industry Career Consortium |
| Approved by the National Center for the Advancement of Process Technology |

| PROJECT MANAGEMENT | | | |
| --- | --- | --- |
| Master of Science in Project Management |
| Accredited by the Global Accreditation Center for Project Management |

| SOCIAL WORK | | | |
| --- | --- | --- |
| Bachelor of Social Work |
| Master of Social Work |
| Accredited by the Council on Social Work Education (CSWE) |
UAA HISTORY
UAA traces its origins back to 1954, when Anchorage Community College (ACC) was founded. That year, ACC began offering evening classes to 414 students at Elmendorf Air Force Base—the first time that college-level courses were offered in the Anchorage area. In 1962, ACC, along with other community colleges around the state, was incorporated into the University of Alaska Statewide System. Five years later, ACC began offering both day and evening classes at the current campus location. ACC provided academic study for associate degrees, the first two years of work toward baccalaureate degrees, and a wide variety of adult learning, career, and continuing education programs.

In the late 1960s, strong interest in establishing a four-year university in Anchorage brought about the birth of the University of Alaska, Anchorage Senior College (ASC). While ACC administered the lower division college, ASC administered upper division and graduate programs leading to baccalaureate and master’s degrees, as well as continuing education for professional programs. In 1971, the first commencement was held at West Anchorage High School where 265 master’s, baccalaureate, and associate’s degrees were awarded. ASC moved to the Consortium Library Building in 1973. The following year, when the first classroom and office facility was completed, daytime courses were offered for the first time. In 1977, ASC became a four-year university and was renamed the University of Alaska, Anchorage (UA,A). Ten years later, ACC and UA,A merged to become what is now known as the University of Alaska Anchorage (UAA).

Today, some 20,000 students attend UAA, a growing and expanding university of first choice. More than 180 programs, ranging from certificate programs to associate’s, baccalaureate, and master’s degrees, are offered at campuses in Anchorage and community campuses and extension centers throughout Southcentral Alaska.

UAA MISSION
The mission of the University of Alaska Anchorage is to discover and disseminate knowledge through teaching, research, engagement, and creative expression. Located in Anchorage and on community campuses in Southcentral Alaska, UAA is committed to serving the highest education needs of the state, its communities, and its diverse peoples. The University of Alaska Anchorage is an open-access university with academic programs leading to occupational endorsements; undergraduate and graduate certificates; and associate’s, baccalaureate, and graduate degrees in a rich, diverse, and inclusive environment.

INSTITUTIONAL LEARNING OUTCOMES
In support of the university’s mission, the curriculum of the various programs is designed such that UAA graduates will be able to:

A. Communicate effectively
B. Employ critical thinking skills
C. Employ independent learning and information literacy skills
D. Demonstrate a knowledge base in the required general education areas, and
E. Demonstrate specific knowledge and skills in degree or major discipline.

DIVERSITY STATEMENT
With freedom of speech being at our core, UAA strives to create an inclusive, respectful campus community that promotes and embraces our individual differences. We are united in our belief that diversity includes understanding and respecting differences in ideas, religion, gender, ethnicity, race, sexual orientation, disability, age, and socioeconomic status. We celebrate diversity in all of our educational and employment endeavors.

ACCREDITATION
UAA has been continuously accredited by the Northwest Commission on Colleges and Universities since 1974. Many of the academic programs are also accredited by their respective professional associations. See the program listing in the front of this catalog for further information.

UAA CAMPUSES
ANCHORAGE CAMPUS
3211 Providence Drive
Anchorage, Alaska 99508
(907) 786-1480
www.uaa.alaska.edu

The largest UAA campus is in Anchorage, where students have access to the greatest number and variety of courses, programs, and services. Located at UAA Drive and Providence Drive, the campus features modern facilities and houses the administration of all of the academic schools and colleges. Enrollment Management, Accounting Services, and many of the technical programs are housed at the University Center on the Old Seward Highway about one mile west of campus.

CHUGIAK-EAGLE RIVER CAMPUS
10928 Eagle River Road, No. 228
Eagle River, Alaska 99577
(907) 694-3313
www.uaa.alaska.edu/ctc/programs/chugiak-eagleriver

Located 10 miles north of Anchorage, the Chugiak-Eagle River Campus offers a wide variety of general education and degree-oriented courses. Most classes are scheduled in the evenings or on weekends.

KENAI PENINSULA COLLEGE
156 College Road
Soldotna, Alaska 99669
(907) 262-0330
www.kpc.alaska.edu

Kenai Peninsula College (KPC) is located about 180 road miles from Anchorage. KPC has campuses in Soldotna and Homer, and extension sites in Anchorage and Seward. KPC offers two-year Associate of Arts and Associate of Applied Science degrees, as well as courses leading to vocational certificates. Some programs leading to baccalaureate degrees, such as the Bachelor of Liberal Studies, Bachelor of Elementary Education, Bachelor of Psychology, and Bachelor of Art, can be obtained entirely at KPC. A number of four-year degree programs are available at KPC via distance delivery through other UAA campuses. KPC has a robust distance education program with more than 60 courses delivered...
each semester, reaching thousands of students across Alaska. The college offers academic advising, transfer information, financial aid assistance, career counseling and free tutoring. The college also serves students needing Adult Basic Education, General Equivalency Diploma (GED) tutoring and testing, English-as-a-Second Language and literacy instruction.

**ANCHORAGE EXTENSION SITE**  
University Center  
3901 Old Seward Highway  
Anchorage, Alaska 99503  
(907) 786-6143  
www.kpc.alaska.edu/anchorage

KPC offers two programs through an extension site at the University Center. More than 100 students pursue the Associate of Applied Science in either Process Technology or Occupational Safety and Health. The site includes lab simulators, classrooms, and computer labs.

**KACHEMAK BAY CAMPUS**  
533 E Pioneer Avenue  
 Homer, Alaska  99603  
(907) 235-7743  
www.homer.alaska.edu

The Kachemak Bay Campus is located in the picturesque seaside town of Homer. The campus delivers KPC’s programs and services on the southern Kenai Peninsula and serves more than 400 students each semester. The campus offers a quality education in a warm, friendly environment. The campus includes classrooms, computer lab, learning center, bookstore and library with access to CD-ROM and online databases.

**RESURRECTION BAY EXTENSION SITE**  
P.O. Box 1049  
Seward, Alaska 99664  
(907) 224-2285  
www.kpc.alaska.edu/resurrection

KPC also offers classes on the Kenai Peninsula in Seward. Various general education requirement courses and personal enrichment classes are offered utilizing high school classrooms. KPC has an onsite coordinator at Seward High School and more than 10 classes are offered each semester.

**KODIAK COLLEGE**  
117 Benny Benson Drive  
Kodiak, Alaska 99915  
(907) 486-4161  
www.koc.alaska.edu

Kodiak College, located on Kodiak Island 250 air miles south of Anchorage, serves the town of Kodiak and the communities of Akhiok, Karluk, Larsen Bay, Old Harbor, Ouzinkie, and Port Lions. Kodiak College provides courses leading to associate's or baccalaureate degrees, plus Adult Basic Education, and GED preparation. Special interest, continuing education, vocational technical courses, and support for distance education are also offered. The campus is a cultural center in the community, sponsoring events such as readings, lectures, seminars, art shows, and exhibits.

**MATANUSKA-SUSITNA COLLEGE**  
P.O. Box 2889  
Palmer, Alaska 99645  
(907) 745-9774  
www.matsu.alaska.edu

Located on Trunk Road, forty miles north of Anchorage, and about halfway between Wasilla and Palmer, Matanuska-Susitna College serves several thousand students in one of the fastest growing areas of the state. The college offers courses leading to certificates, associate’s, and baccalaureate degrees. In addition, professional development, continuing education, and graduate courses are available on a limited basis as demand warrants.

**OTHER ACADEMIC OPPORTUNITIES**  
**STUDENT EXCHANGES AND STUDY ABROAD**

**OFFICE OF ADMISSIONS**  
University Center  
(907) 786-1480  
www.uanlaka.edu/iss

Students are encouraged to explore educational experiences through a number of study abroad, internship abroad, and national or international student exchange opportunities available to UAA students.

The Office of Admissions is the liaison between the University of Alaska Anchorage, the Department of State, and the U.S. Immigration and Customs Enforcement agencies with the responsibility for issuing required documentation for incoming international students.

**NATIONAL STUDENT EXCHANGE**  
www.uanlaka.edu/enrollmentservices/national.cfm

UA is a member of the National Student Exchange (NSE) Program. This is a domestic student exchange with a consortium of over 205 colleges within the United States, Canada, Guam, Virgin Islands, and Puerto Rico. For more information, contact the UAA Office of Admissions or visit the NSE website: www.nse.org.

**OFFICE OF INTERNATIONAL AFFAIRS (OIA)**  
Rasmuson Hall, Suite 115  
Dr. Theodore L. Kassier, Director of International Affairs  
(907) 786-4300  
www.uanlaka.edu/oia

The Office of International Affairs (OIA) coordinates and promotes international activities at UAA. Students should consult the office for information on academic activities, including research, internships, engaged learning opportunities, and degree programs that support or make use of the development of international expertise. Faculty should discuss teaching and research opportunities abroad with the Office of International Affairs and their deans. The Office of International Affairs also coordinates and manages UAA’s relationships with current and prospective international partner institutions.

Development of international expertise is an important skill for all students in the 21st century. Many jobs and careers require familiarity with and understanding of the languages, cultures, history, practices, and peoples of other parts of the world. Knowledge of diverse cultures also broadens and deepens one’s understanding of one’s own culture. Enhanced internationalization of UAA is recognized as a priority in UAA 2017, the university’s strategic plan.

**INTERNATIONAL EDUCATIONAL EXPERIENCES**  
**STUDY ABROAD AND INTERNATIONAL EXCHANGES**

One of the pivotal elements in developing global awareness and intercultural competence is an international educational experience. International study plays an important role in preparing graduates for exciting career opportunities and graduate study, often giving them a competitive edge. UAA offers education abroad and exchange opportunities in more than 50 countries in Africa, Asia, Europe, Latin America, the Middle East, and Oceania. Language immersion programs offer students the chance to accelerate their mastery of another language. Internships and service learning options engage students in applied learning at the same time allowing them to interact more fully with their host cultures and gain valuable work-related experience.
WELCOME TO UAA

Students who wish to go abroad are strongly encouraged to plan ahead. Early in their studies, students should seek counsel from their academic advisors as well as the International Affairs Coordinator to identify programs that offer the best fit academically and personally. In consultation with their academic advisors, students need to determine how international study will fit with their degree requirements, strategically selecting courses to lay a solid foundation while advancing towards timely graduation.

The Office of International Affairs provides support, guidance, a pre-departure orientation, and administrative assistance to students wishing to participate in an international education experience from the time they begin to explore opportunities through their return to UAA and re-entry into American life. By working through the Office of International Affairs, participants in UAA's approved programs earn resident credit. Many forms of financial aid are available to help students pay for approved experiences.

Detailed information about UAA's international exchanges and approved education abroad programs and their requirements, along with application forms, are available from the Office of International Affairs. Students are responsible for knowing and following UAA's regulations and policies, as well as those of their international program providers and host institutions.

STUDENT RESEARCH, SCHOLARSHIP, AND CREATIVITY

Students may participate in student research, scholarship, and creative activity across the curriculum at undergraduate and graduate levels. There is a wide range of internships and service learning settings as part of professional or technical education and training. The annual Student Showcase and the Undergraduate Research and Discovery Symposium emulate professional meetings wherein student research and creative expressions are reviewed by faculty and culminate in university publications.

STUDENT SERVICES

Helping students achieve their academic goals is the mission of UAA's support services. These services are facilitated by centers that focus on academic excellence, student health, learning resources, advising, counseling, career development, academic accommodations for students experiencing disabilities, educational opportunity, and study abroad. Other services assist students with financial aid or individualized needs or interests. (See Chapter 6, Advising and Academic Support, for further information.)

UAA offers diverse co-curricular opportunities for all students and challenges them to learn and develop in a purposeful and supportive environment. For information on UAA student residence options, or for student social, athletic, and cultural activities see Chapter 3, Student Life, in this catalog and the UAA Fact Finder/Student Handbook.

CAMPUS DIVERSITY AND COMPLIANCE

Through the institution's Affirmative Action Plan, UAA recognizes its responsibility to provide education and employment opportunities for all qualified individuals. UAA also operates an Office of Campus Diversity and Compliance which monitors civil rights, federal and state laws, orders, and decisions to ensure that access, inclusion, and equity are practiced at UAA. Students and prospective students are afforded educational services, such as admission decisions, financial aid, access to academic programs, and health and counseling services, without regard to race, color, religion, national origin, age, sex, veteran status, physical or mental disability, marital status, pregnancy, or parenthood, except as necessary and permitted by law. A student or prospective student who feels that he or she is being discriminated against has the right to contact the appropriate supervisor for assistance. The student or prospective student may also contact one of the following:

- AHAIINA Student Programs Office ............... (907) 786-4070
- Disability Support Services ....................... (907) 786-4530
- Human Resource Services Department ........ (907) 786-4608
- Native Student Services ......................... (907) 786-4000
- Office of the Dean of Students ................. (907) 786-1214
- UAA Office of Campus Diversity and Compliance ............... (907) 786-4680
- U.S. Department of Labor (Office of Federal Contract Compliance Programs, Federal Building, Anchorage, Alaska) for advice on discrimination ......................................... (907) 271-2864

HARASSMENT

The University of Alaska Anchorage is a community that cherishes free and open exchange of ideas in the pursuit of knowledge. Maintaining this freedom and openness requires the presence of safety and trust; it requires the absence of coercion, intimidation, and exploitation. Therefore, harassment of any kind has no place in the university. Anyone who believes he or she has been a victim of harassment should contact the appropriate dean/director office(s), the Office of the Dean of Students, the UAA Office of Campus Diversity and Compliance, or the U.S. Department of Labor (Office of Federal Contract Compliance Programs, Federal Building, Anchorage, Alaska).

SAFETY

Anchorage Campus Police ....................... (907) 786-1120 (V/TTY)
Kenai Peninsula College
Soldotna Campus Security ............... (907) 262-0300
Kachemak Bay Branch Security ........ (907) 235-7743
Kodiak Campus Security ................. (907) 486-1219
Mat-Su Campus Security ............... (907) 745-9789

Safety is a priority at UAA. All members of the academic community are encouraged to take responsibility for their own safety by taking the time to locate the nearest exits and emergency telephones when they are in campus buildings. Safety concerns may be brought to the attention of UAA faculty or staff, or the University Police at (907) 786-1120. For more safety information and the most recent campus crime report, visit www.uaalaska.edu/safety.

FREE SPEECH AND ACADEMIC INQUIRY

In the pursuit of knowledge, any member of the university community shall be free to investigate and question any fact, context, action, purpose, or belief that is encountered in any discipline. Any member shall be free to articulate discoveries, opinions, and judgments that are found or formed in the process. UAA enables and encourages this activity and creates a culture of inquiry that is open to the expression and debate of ideas, whether or not they are popular, judicious, or refined.
Alaska Center for Rural Health (ACRH)
Alaska Center for Supply Chain Integration (ACSCI)
Alaska Small Business Development Center (Alaska SBDC)
Center for Alcohol & Addiction Studies (CAAS)
Center for Behavioral Health Research & Services (CBHRS)
Center for Community Engagement & Learning (CCEL)
Center for Economic Education (CEE)
Center for Human Development (CHD)
Environment & Natural Resources Institute (ENRI)
Institute for Circumpolar Health Studies (ICHS)
Institute of Social & Economic Research (ISER)
Justice Center
North Pacific Fisheries Observer Training Center (OTC)
Psychological Services Center (PSC)
University of Alaska Center for Economic Development (CED)
Centers & Institutes

A center or institute is created on approval by the University of Alaska president and Board of Regents for the promotion of advanced study, research, economic or business development, and/or instruction in specified fields. Generally, a center or institute will serve to coordinate the participation of several academic disciplines or programs in a unified endeavor. While centers and institutes may have varied missions, they may not offer degree programs.

**Alaska Center for Rural Health (ACRH)**
(907) 786-6579
[http://nursing.uaa.alaska.edu/acrh](http://nursing.uaa.alaska.edu/acrh)

The ACRH is housed within the School of Nursing of the College of Health and Social Welfare. The mission of ACRH is to help strengthen systems to deliver comprehensive and culturally relevant health care to rural Alaskans. It achieves this mission through health workforce development, research, and communications. Of the organization members, four represent the University of Alaska’s three major academic units (UAA, UAF, UAS) and the University of Alaska Statewide Office.

Outcomes and programs include the Raven’s Quest Summer Institute, Rural/Urban Opportunities Program, Rural Health Career Guide, and the Alaska Rural Health Newsletters.

**Alaska Center for Supply Chain Integration (ACSCI)**
(907) 786-4149
[www.cbpp.uaa.alaska.edu](http://www.cbpp.uaa.alaska.edu)
[acsci@cbpp.uaa.alaska.edu](mailto:acsci@cbpp.uaa.alaska.edu)

The ACSCI, housed within the College of Business and Public Policy at the University of Alaska Anchorage, supports business system research and development of Alaskan logistics and supply chain management capabilities. The center enriches educational opportunities for students and fosters the development of university/government/industry-partnered activities while addressing business issues of economic impact for the state of Alaska. Focusing on the growing importance of logistics and supply chain activities within Alaska’s economy, from the air cargo that transits Ted Stevens Anchorage International Airport to the Alaska seafood supply chain that reaches across America and beyond, the center provides opportunities for students and faculty. Across the University of Alaska, they participate in the development of solutions addressing current business topics as well as matters associated with emerging technologies such as radio-frequency identification (RFID) and changes in public policy such as the increased emphasis on homeland security.

**Alaska Small Business Development Center (Alaska SBDC)**
(907) 274-7232 • Toll Free: 1-800-478-7232
[www.aksbdc.org](http://www.aksbdc.org)

The Alaska SBDC is a cooperative program of the Small Business Administration (SBA) accredited by the Association of Small Business Development Centers and hosted by the University of Alaska Anchorage.

The mission of the Alaska SBDC is to foster, promote, and assist the growth and development of small businesses in the state of Alaska through a multifaceted business assistance program. The primary emphasis of the Alaska SBDC is to provide Alaska’s businesses and entrepreneurs in-depth, quality business counseling and training. Small businesses are assisted in the areas of management, marketing, sales, finance, accounting, and other disciplines required for small business growth, expansion, and innovation.

The Alaska SBDC is represented throughout Alaska from five regional centers located in Anchorage (Southcentral Region), Fairbanks (Great North Region), Wasilla (Central Region), Juneau (Southeast Region) and Soldotna (Southwest Region). The Alaska SBDC also addresses growth in rural Alaska through the Rural Outreach Program for Entrepreneurs, or ROPE program.

The Alaska SBDC has four partner programs that serve small businesses in Alaska. The Procurement Technical Assistance Center (PTAC), provides assistance to businesses seeking opportunities in government contracting. Our Buy Alaska program offers free in-state sourcing for buyers and sales referrals through a comprehensive online site, www.buyalaska.com. The Technology Research Development Center, or TREND, provides Small Business Innovation Research (SBIR) proposal assistance and technical database searches to businesses. The Alaska Performance Excellence Program (APEX) offers statewide assistance to any size business in their quest for excellence in areas of leadership, strategic planning, customer and market focus, analysis and integration, human resource focus, process management, and results. This program is based on the Malcolm Baldrige National Award criteria.

All of the Alaska SBDC’s business assistance programs encourage the involvement of university faculty and provide internship opportunities for University of Alaska students.

**American Russian Center (ARC)/International Support Office**

Please refer to the Office of International Affairs in Chapter 1.

**Center for Alcohol and Addiction Studies (CAAS)**
(907) 786-6582
[www.ichs.uaa.alaska.edu/caas](http://www.ichs.uaa.alaska.edu/caas)

The CAAS mission represents the University of Alaska’s commitment to address the problem of substance use and abuse in the state. The mission of the Center for Alcohol and Addiction Studies is to help alleviate the problem of substance abuse and its adverse impacts through the development and implementation of education, training, research and public service programs.

CAAS has produced local and statewide reports related to the substance abuse problems in the state, has received numerous grants and contracts to undertake research and evaluation studies, and has initiated workshops and training programs to help practitioners enhance their skills. CAAS serves as a resource for collaborative research, and as a repository of information for health researchers.
CENTER FOR BEHAVIORAL HEALTH RESEARCH AND SERVICES (CBHTRS)

(907) 561-2880
http://bhrs.uaa.alaska.edu
aybhrs@uaa.alaska.edu

The CBHRS is a research center in the College of Arts and Sciences that has been in existence since 1999. CBHRS is comprised of researchers, clinicians, and educators dedicated to the behavioral and physical health of all members of our community. CBHRS research is focused on risk behavior prevention, exploration of the coexistence of substance abuse and mental illness, research and clinical ethics, and healthy lifestyle choices. CBHRS has been funded through a variety of mechanisms, including grants and contracts from State of Alaska and municipal government agencies, non-profit organizations, tribal entities, private enterprises, and federal research and health services institutes, such as the Substance Abuse and Mental Health Services Administration, Centers for Disease Control and Prevention, and the National Institutes of Health. CBHRS is home to two large R01 grants from the National Institute on Drug Abuse and the National Institute of Mental Health, both focused on research ethics with vulnerable populations. CBHRS also houses the CDC-funded Arctic Fetal Alcohol Spectrum Disorders Regional Training Center (www.ualaska.edu/arcticfasdrtc).

In addition to being a major research center, CBHRS provides a variety of services in the areas of mental health, substance abuse, physical health, and prevention that are helpful to faculty members across campus, care providers in the larger community, administrators in health-related agencies across the state, and State of Alaska policy makers. CBHRS provides support with qualitative research methodology (including design, key informant interviews, focus groups, data coding, and data analysis); quantitative research methodology (including design, data collection, data management, and statistical analysis); grant production (including hypothesis generation, study design, writing, budget generation, and coordination), writing for the peer-reviewed literature (including manuscript production, technical report writing, and book chapter creation), and training activities (including workshops, seminars, and lectures). CBHRS is approved by the American Psychological Association to offer continuing education.

CENTER FOR COMMUNITY ENGAGEMENT AND LEARNING (CCEL)

(907) 786-4062
http://engage.uaa.alaska.edu
engage@uaa.alaska.edu

Established in 2000, UAA's Center for Community Engagement and Learning connects academic programs with community needs to use scholarship and action for the mutual benefit of the university and state, its communities, and its diverse peoples. The center enables the university to effectively carry out its community engagement mission, to engage with the larger community, and to support service learning, a proven pedagogy that links community with academic study and reflection.

CENTER FOR ECONOMIC EDUCATION (CEE)

(907) 786-1916
www.cee.uaa.alaska.edu

The Center for Economic Education is jointly sponsored by the Alaska Council on Economic Education and UAA. The goal of the center is to promote and improve the teaching of economics in Alaska's schools. The center sponsors workshops and college credit courses for teachers throughout Alaska and provides educational materials and other assistance to teachers and school districts.

CENTER FOR HUMAN DEVELOPMENT (CHD)

(907) 272-8270 • Toll Free: 1-800-243-2199
www.alaskachd.org
info@alaskachd.org

The CHD, a University Center for Excellence in Developmental Disabilities Education, Research, and Service, is an interdisciplinary unit under the College of Health and Social Welfare. Faculty and staff represent a variety of disciplines including psychology, social work, special education, sociology, adult education, nursing, and human services. The center has a variety of projects that provide paid work experience for UAA students.

The CHD is authorized under the Developmental Disabilities Assistance and Bill of Rights Act as a Center for Excellence to build state and community capacity to respond to the needs of individuals who experience developmental and other persistent conditions requiring long-term support, and to the needs of their families. CHD serves as a liaison between the academy and the service delivery system. It collaborates with state agencies and community providers to support the independence, productivity, and community integration of people who experience developmental disabilities or require long-term support by:

1. Providing interdisciplinary pre-service and continuing education of students.
2. Providing community service, training, and technical assistance for individuals requiring long-term support, their families, and support staff.
3. Conducting formal and applied research, evaluation, and analysis of public policy in areas affecting individuals requiring long-term support and their families.
4. Disseminating information about disabilities, long-term supports, and professional “best practices.”

ENVIRONMENT AND NATURAL RESOURCES INSTITUTE (ENRI)

(907) 257-2700
www.uaa.alaska.edu/enri

ENRI conducts applied and fundamental scientific research and collects, synthesizes, archives, and distributes natural science data, specimens, and knowledge. This is accomplished by conducting field and laboratory studies, by contributing to and forming research networks, by participating in data and sample archiving and synthesis activities, and by providing electronic outlets and Internet portals for public access. ENRI also supports two analytical facilities: the UAA Stable Isotope Laboratory (SIL) and the Applied Science and Engineering Technology Laboratory (ASET). These facilities are designed to serve the research, teaching, and service mission of the College of Arts and Sciences, and are central to advancing the integrative science theme at UAA.

ENRI is organized into three main research, data, and information themes: a) Ecosystem Studies and Conservation Biology, b) Earth and Climate Processes, and c) Human Ecology and Native Studies. Within each research theme, the research activities are comprised of multiple PI-lead programs, including: 1) Ecosystem Studies Program, 2) the Alaska Natural Heritage Program, 3) the Aquatic and Riparian Ecology Program, and 4) the Cultural Heritage Program.

ECOSYSTEM STUDIES AND CONSERVATION BIOLOGY (ESCB)

ECOSYSTEM STUDIES PROGRAM

(907) 257-2700
http://enri-sil.uaa.alaska.edu

This research group emphasizes understanding the magnitudes, patterns, governing processes, and changes in the cycles of carbon, water, nutrients, and their interactions. The program specializes in...
physiological plant and ecosystem ecology with studies in tundra, at tree-line, in boreal forests and in other northern systems. This program has a strong emphasis on studying how arctic and boreal ecosystems are responding to climate change, including research in northwest Greenland and in northern Alaska at the Toolik Lake Field Station. The UAA Stable Isotope Lab serves the analytical needs of this and other programs at ENRI and UAA.

**ALASKA NATURAL HERITAGE PROGRAM (AKNHP)**

(907) 257-2780

[www.uaa.alaska.edu/enri](http://www.uaa.alaska.edu/enri)

This unit is Alaska’s clearinghouse for information on plant and animal species of conservation concern, natural communities of conservation concern, and invasive nonnative plant species, and includes a botany and a zoology emphasis. The Alaska Natural Heritage Program collects, validates, and distributes information, and assists natural resource managers and others in applying it effectively. The Alaska Natural Heritage Program is part of the international network NatureServe, and its data are linked to similar programs in all 50 states, most Canadian provinces, and many Latin American countries.

**AQUATIC AND RIPARIAN ECOSYSTEM PROGRAM**

(907) 257-2744

[http://aquatic.uaa.alaska.edu](http://aquatic.uaa.alaska.edu)

This program investigates the influences of natural and human processes on the structure and function of freshwater ecosystems. The major focus has been quantifying the baseline biological conditions of streams and rivers and the development of tools to monitor the biological health of Alaska’s streams and associated terrestrial ecosystems. This program has recently embraced studies that quantify marine-terrestrial linkages via marine-derived N inputs into freshwater streams and adjoining riparian ecosystems. Training and outreach to local K-12 programs and municipalities are central to this program.

**EARTH AND CLIMATE PROCESSES (ECP)**

**ALASKA STATE CLIMATE CENTER (ASCC)**

(907) 257-2737

[http://climate.uaa.alaska.edu](http://climate.uaa.alaska.edu)

The ASCC unit provides climatological information and official weather data to the public, while studying how long-term changes in weather patterns are being manifested in southcentral Alaska. The Climate Center collaborates closely with UAA’s Alaska Experimental Forecast Facility and is developing links to the Alaska Ocean Observing System. ASCC is also leading coordination for our Boreal Forest Observatory located on the UAA campus that is measuring and monitoring air and soil temperatures, CO₂ fluxes, and canopy properties.

**GEOCHEMISTRY UNIT**

(907) 786-6895

The Geochemistry Unit at ENRI focuses on the quantification of inorganic and organic minerals and nutrient cycles, contaminant biogeochemistry, as well as catchment processes. The contaminant research addresses perchlorate biogeochemistry and arsenic dynamics. The isotope geochemistry research emphasizes nitrate dynamics in urban and rural watersheds as well as local, state, and continental patterns and processes governing the isotopes of water in precipitation, USNIP (US Network of Isotopes in Precipitation (www.uaa.alaska.edu/enni/usnip/index.htm)). The Geochemistry Unit is supported in part by The Applied Science and Engineering Technology Laboratory (ASET) (tarec.uaa.alaska.edu/enri/aset), a modern analytical facility specializing in the analysis of fatty acids in fish, birds, and mammals; inorganic nutrients (NO₃ and NH₄) in waters; as well as organic and inorganic pollutants such as perchlorate and dissolved carbon and nitrogen in waters.

**HUMAN ECOTOLOGY AND NATIVE STUDIES (HENS)**

**CULTURAL HERITAGE PROGRAM**

[http://culturalheritage.uaa.alaska.edu](http://culturalheritage.uaa.alaska.edu)

(907) 257-2704

This research group focuses on basic and applied archaeological and anthropological studies, thematic history investigations, subsistence studies, and cultural resources consultations. Culture contact and change, human ecology in changing environments, and ethnogenesis of historic indigenous Alaska cultures are major themes that are currently being addressed. This group has a long history of studies addressing cultural practices, past and present in Northwest Alaska where whaling has been a critical way of life for hundreds of years. The rich cultural history of Alaska and the wealth of Native communities and issues provide a rich environment to address the human dimensions of arctic and boreal systems. This group is supported by the Cultural Heritage Studies Program.

**ASSOCIATED PROGRAMS**

**ARCTIC ENVIRONMENTAL INFORMATION AND DATA CENTER (AEIDC)**

(907) 257-2700

[www.uaa.alaska.edu/enri](http://www.uaa.alaska.edu/enri)

The AEIDC is becoming an electronic information and data center that serves as a focus for ENRI data compilation, data archiving, data synthesis activities, data collection, sample storage, data sharing and the provision of data and information to scientists and society. AEIDC focuses on organizing data sets from large- and small-scale monitoring and measurement networks that include Alaska, the north, and across the US. The scale of data compilation ranges from archiving data sets from individual projects lead by ENRI faculty and staff to compiling data that represents entire programs at the national level. AEIDC is upgrading its computing and personnel capacity to serve these needs.

**INSTITUTE FOR CIRCUMPOLAR HEALTH STUDIES (ICHIS)**

(907) 786-6575

[http://ichs.uaa.alaska.edu](http://ichs.uaa.alaska.edu)

ayichs@uaa.alaska.edu

The ICHS was created by the Alaska Legislature in 1988 (AS 14.40.088) to develop new solutions to health problems in Alaska and the circumpolar north. Within the University of Alaska, the institute provides support and coordination for health research, information, and training. ICHS works closely with faculty throughout the University of Alaska system, providing technical assistance and support to increase the capacity within the state to address the health needs of all Alaskans. ICHS also encourages student involvement through internships and research assistantships. ICHS staff assist in the instructional mission of the College of Health and Social Welfare through conferences, guest lectures, and other teaching activities.

At ICHS, research addresses a wide variety of health problems and issues facing Alaskans, many of which are common to populations in the circumpolar north. Alaska’s rural and multicultural environment calls for a multidisciplinary approach to defining health problems and identifying appropriate solutions. ICHS research activities include epidemiologic studies of population health problems, studies of health services need, access and utilization, and evaluation of health policy and the effectiveness of new programs.

The institute maintains collaborative relationships with other universities, state and federal agencies, Alaska Native health organizations, and Alaskan communities to provide relevant health information, to support local planning, and to inform the development of health policy. Cooperative activities in research, instruction, and service link Alaska...
and the university with international health research and practice. ICHS provides professional development and training through conferences and workshops for public health and medical professionals, and informational services and educational programs for the general public.

**INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH (ISER)**

(907) 786-7710  
www.iser.uaa.alaska.edu  
ayiser@uaa.alaska.edu  

ISER is a public policy and social science research institute, applying multidisciplinary skills to the analysis of social and economic change in Alaska and northern regions. Since 1961, the institute has investigated virtually every major public policy issue in Alaska, including the effects of natural resource development, the fiscal policies of state and local governments, the transportation and energy requirements of developing regions, and the effects of change on Alaska’s Native people and on the quality of life in Alaska. ISER is affiliated with the College of Business and Public Policy. Faculty from the college and other parts of the university take part in ISER research projects. ISER also forms research partnerships with other universities, Native organizations, school districts, and community groups. ISER faculty also teach, and ISER provides opportunities for student involvement through internships and research assistantships.

**JUSTICE CENTER**

(907) 786-1810  
http://justice.uaa.alaska.edu  
ayjust@uaa.alaska.edu

The Justice Center conducts research in the justice field and provides higher education in justice studies. Through its work, the center promotes understanding of the justice system throughout rural and urban Alaska.

The Justice program offers courses in the areas of crime, delinquency, paralegal studies, and police, judicial, and correctional policy and administration. Within the Justice program, the center also offers a paralegal certificate approved by the American Bar Association. The Center also participates in an interdisciplinary graduate program with the UAA Department of Public Administration through which students can earn a Master of Public Administration with an emphasis in criminal justice.

The Justice Center conducts research in the areas of crime, law, law enforcement, corrections and the administration of both civil and criminal justice. This research contributes to the development of the UAA academic curriculum and also serves as the underpinning for center work in community education and public service. Since its establishment, the center has been particularly committed to research on cross-cultural issues as a means for improving Alaska justice administration and for broadening education opportunities for the Alaska Native community.

The Justice Center includes the Alaska Justice Statistical Analysis Unit, a program under the aegis of the Bureau of Justice Statistics. The Statistical Analysis Unit collects data, conducts analyses, and makes the results of national research on justice issues available to the Alaska community. For more information, visit their website at http://justice.uaa.alaska.edu.

The Justice Center products include books, papers, reports to public agencies, and video educational programs. Justice Center faculty and staff provide legislators and other public officials with assistance in the organization and preparation of materials for public policy formulation. In addition, center-sponsored conferences and a quarterly publication, the Alaska Justice Forum, permit the exchange of ideas in the justice field.

**NORTH PACIFIC FISHERIES OBSERVER TRAINING CENTER (OTC)**

(907) 257-2770  
www.uaa.alaska.edu/ctc/otc  

The OTC provides training for marine mammal observers and groundfish, crab, and scallop observers. Working in conjunction with the University of Fairbanks (UAF), the National Marine Fisheries Service, and the Alaska Department of Fish and Game, the OTC trains observers in sampling requirements, fish, shellfish, seabird, and marine mammal identification, and safety at sea. Fishery observers live and work onboard commercial fishing vessels in the Bering Sea and the Gulf of Alaska. Observers collect information critical to the management and conservation of Alaska’s marine resources.

**PSYCHOLOGICAL SERVICES CENTER (PSC)**

(907) 786-1795  
http://psych.uaa.alaska.edu/services  

The PSC is the training clinic for graduate students in the MS Clinical Psychology Program and the Joint Doctoral Program in Clinical Community Psychology with a Rural Indigenous Emphasis. Therapy is provided for families and individuals in an atmosphere sensitive to culture and ethnicity. People are seen for reasons from a curiosity about one’s own potential to concerns such as anxiety, depression, stress, loss, and relationship difficulties.

Confidentiality is observed. Services are affordable and determined on a sliding scale basis. Students are welcomed in the PSC but clients do not need to be affiliated with UAA to receive services. The PSC clinicians are graduate students who are supervised by licensed practitioners. Because this is a training clinic that is closed on weekends, holidays, and school breaks, the PSC is generally not a good match for people who have severe crises. For an appointment or information, please call 786-1795.

**UNIVERSITY OF ALASKA CENTER FOR ECONOMIC DEVELOPMENT (CED)**

(907) 786-5444  
www.ced.uaa.alaska.edu  

The University of Alaska Center for Economic Development is one of 52 University Centers designated by the U.S. Department of Commerce, Economic Development Administration. In this role, the center leverages the resources of the University of Alaska system to improve the local economy and economic development capacity of the service area which includes the entire state of Alaska.

The center provides technical assistance to public and private sector organizations. The ways in which the center engages in economic development are broad and flexible, according to the needs of the university, its partners, and the communities served. Technical assistance is used to provide information, data, and know-how in evaluating, shaping and implementing specific projects and programs that promote economic development, with a focus on economically distressed regions, as defined by EDA.

Current areas of emphasis include:

- Providing technical assistance (business planning, feasibility studies, market analysis) involving staff, students and faculty in a variety of ways
- Promoting entrepreneurial and economic development capacity-building through the delivery of training, workshops, and educational courses
- Serving as the bridge between the university and organizations engaged in economic development, such as the Alaska Regional Development Organizations, Native organizations, Denali Commission, and state of Alaska. Each of these partners brings opportunities, problems, solutions, and funding to the partnership.
Student Involvement
Student Development
Student Life & Leadership
Student Leadership Development
Union of Students (USUAA)
Student Union & Commuter Student Programs
Greek Council
KRUA 88.1 FM
Media Board
The Northern Light
Student Lecture Series & Conferences
Honor Societies
Seawolf Speech & Debate Team
Alaska Native Oratory Society
Arts
Athletics
WOLFcard
Food Service
Bookstore
General Support Services
Information & Technology Services
Campus Housing & Residence Life
Health & Wellness
Alcohol Policies
Lost & Found
Outdoor Life
Pets on Campus
Safety
Smoke-Free Environment
Wildlife on Campus
Student Life

Student Involvement
The Anchorage campus at the University of Alaska Anchorage is a growing urban and residential campus with a diverse student body that reflects the state’s population. Students come to UAA from Alaska’s towns, cities and rural communities, from all 50 states and U.S. territories, and over 31 countries. Our community embraces the cultures, ethnicities, politics, experiences, and goals of a diverse group of people, united by respect for others and commitment to education.

The university and its academic departments sponsor colloquia and speakers, and produce a range of publications that create a rich and stimulating intellectual environment for undergraduate and graduate students. Student and university-sponsored lecture series include the Alaska Quarterly Review, The Last Frontier Theatre Conference, Kachemak Bay Writers’ Conference, the Complex Systems Lecture Series, and the Bartlett Lecture Series.

Student Development
(907) 786-1214
www.uaa.alaska.edu/studentdevelopment
The dean of students, the staff and faculty in the Division of Student Development, and the student leaders welcome all students to investigate the array of resources and activities available to them. This chapter provides an overview of university and student-sponsored programs and services. The UAA Fact Finder/Student Handbook provides more detailed information important to student life and the campus community.

Student Life and Leadership
(907) 786-1215
www.uaa.alaska.edu/studentlifeandleadership
Student Life and Leadership provides students with social, cultural, academic, leadership, and recreational opportunities. Programs include Student Activities, Student Leadership, Concert Board, Bartlett Lecture Series, Student Showcase, The Northern Light student newspaper, KRUA 88.1 FM student radio station, USUAA, clubs, and Greek Life.

Student Activities
(907) 786-1219
www.uaa.alaska.edu/studentlifeandleadership/activities
A variety of events and programs are offered by Student Activities, from the “Banff Festival of Mountain Films” to Student Union Gallery exhibits, renowned speakers to Noon Music, and Family Movie Nights to nationally touring musicians and comedians. These programs are funded by ticket sales and the Student Life Fee.

Student Leadership Development
(907) 786-1371
www.uaa.alaska.edu/studentleadership
Student leadership opportunities promote learning and development in students by encouraging social responsibility through governance and community service, appreciation of diverse cultures and viewpoints, and by working individually or collaboratively for common goals. These opportunities reinforce and complement academic learning. Student Life and Leadership advises student organizations and coordinates leadership training for student leaders involved with student government, clubs, Greek organizations, and other leadership positions. Student Life and Leadership coordinates graduation-related programs, such as co-curricular transcripts, Student Commencement Speaker Committee, and Student Leadership Honors.

Union of Students (USUAA)
(907) 786-1205
www.uaa.alaska.edu/unionofstudents
USUAA is UAA’s student government, charged with representing approximately 14,000 students per semester on the Anchorage campus. The USUAA Assembly is in charge of allocating student government fees, coordinating activities, representing students’ views to the chancellor, lobbying the University of Alaska Board of Regents and the state legislators, and pursuing the academic concerns of students. Each student who pays the student government fee is a member of USUAA and is entitled to the services it provides. USUAA comprises a legislative assembly and five organizations: Board of Global Information and Activities, Club Council, Concert Board, Election Board, and Media Board.

Club Council
(907) 786-1385
www.uaa.alaska.edu/clubs
Club Council supports over 80 registered student clubs and organizations, and is made up of one delegate from each. Student clubs and organizations provide all students with opportunities to get involved in activities and programs that promote and support various interests, sports, religions, cultures, academic programs, careers, and lifestyles.

Concert Board
(907) 786-1210
http://concert.uaa.alaska.edu
The Concert Board presents major entertainment events, including A Cappella Festivella, nationally known comedians, and musicians. All shows are produced by UAA students and the board is funded by a fee paid by students on the Anchorage campus taking three or more credits.

Student Union and Commuter Student Programs
(907) 786-1204
www.uaa.alaska.edu/studentlifeandleadership
The Student Union building is the hub of co-curricular activities and programs. Housed in the Student Union are the offices of USUAA, Club Council and Greek Council, New Student Orientation, and the office of the Dean of Students. Services in the Student Union include group and quiet study lounges, open computer lab, game room, art gallery, Subway restaurant, Corner Café, and ATM machine. The Information Desk provides general information, UAATix.com entertainment tickets, outdoor rental equipment, lost and found, and snack items for sale.
GREEK COUNCIL  
(907) 786-1385  
www.uaa.alaska.edu/greeklife

As the governing body for two national sororities and one national fraternity, Greek Council is committed to academic excellence, service to the community, lifelong friendships, and strengthening Seawolf pride. The council sponsors activities throughout the year for the Greek community and for all UAA students.

KRUA 88.1 FM  
(907) 786-6800  
http://krua.uaa.alaska.edu

Managed by student employees with the help of approximately 30 volunteers, KRUA broadcasts daily from 7 a.m. to 1 a.m. with an alternative format including reggae, rap, jazz, ska, blues, and local music, along with news, sports, and public affairs shows. Training is provided to volunteers and no broadcast experience is required.

MEDIA BOARD  
(907) 786-1215  
www.uaa.alaska.edu/studentlifeandleadership/studentmedia

The Media Board's purpose is to assist student media in the effective and professional conduct of their operations and to advocate for their interests and well-being. The Media Board hires student media managers and approves media policies and budgets.

THE NORTHERN LIGHT  
(907) 786-1513  
www.thenorthernlight.org

The student newspaper employs up to 25 students each semester. Students gain experience in writing, editing, layout and graphics, photography, advertising, and management. The staff publishes 26 weekly issues during the fall and spring semesters and three issues in the summer, plus an up-to-date online edition.

STUDENT LECTURE SERIES AND CONFERENCES

STUDENT SHOWCASE  
(907) 786-1215  
www.uaa.alaska.edu/studentlifeandleadership/showcase

This annual academic conference recognizes student excellence in all disciplines. Showcase is a forum for students to present coursework they’ve completed in a professional conference setting. The students’ work is evaluated by faculty and community members, awards are given, and selected works are published in the annual Student Showcase Journal.

BARTLETT LECTURE SERIES  
(907) 786-1215

The Bartlett Lecture Series was established in 1970 in the memory of Bob Bartlett, one of the first two Alaska senators sent to Washington, D.C., following statehood. The Bartlett Lecture Series promotes a clearer vision of individual freedom and of the public good. Individuals of national and world renown present lectures on topics of national and international importance, helping to put problems of Alaska and its people into the context of broad philosophic and cultural, as well as social and economic, issues. The Bartlett Lecture Committee is comprised of students, faculty, and staff who work with their counterparts at the UAF and UAS campuses to bring speakers of national caliber and relevance to each campus.

PACIFIC RIM LITERARY CONFERENCE  
(907) 786-4355  
http://english.uaa.alaska.edu/programs.htm

This conference is organized by the Department of English and members of Sigma Tau Delta, the English honor society. What began as a small, student-run project has grown to be a major event sponsored by grants and many UAA departments, including Canadian Studies, Women’s Studies, and the UAA Bookstore. Students plan the event, including writing grant proposals, inviting speakers, and selecting papers.

HONOR SOCIETIES

Many of UAA's academic departments sponsor nationally-affiliated honor societies, which serve both to recognize student achievement and to serve the community. Contact Club Council or specific academic departments for more information. Contact the Office of the Dean of Students for information about the national Honor Society of Phi Kappa Phi, which is a universitywide honor society.

THE SEAWOLF SPEECH AND DEBATE TEAM  
(907) 786-4390  
http://forensic.uaa.alaska.edu

The Seawolf Speech and Debate Team, founded in 1982, is the only intercollegiate forensics program in Alaska. Housed in the Department of Communication, this faculty-run, co-curricular program helps students achieve educational goals while developing communication skills through competitive experiences in individual speaking events and debate. The program has earned an average of 100 awards each year while representing UAA, the UA system, and the state of Alaska in intercollegiate competition against students from across the U.S. and around the world.

ALASKA NATIVE ORATORY SOCIETY  
(907) 786-6148  
www.uaa.alaska.edu/native/aknos

The society’s mission is to provide a public forum in which Alaska Native issues can be openly discussed, articulated by speakers who are personally involved with the issues and wish to speak out to others in a manner that is informed and compelling. The society sponsors a contest for competition in dramatic declamation, oratory, storytelling, and Native language, which offers cash prizes.

ARTS

FINE AND PERFORMING ARTS FACILITIES

The Fine and Performing Arts programs are housed in a 94,000-square-foot building, which includes studio, laboratory, performance, office, and rehearsal spaces. Included in the Fine Arts Building are studios for drawing, painting, sculpture, 3-D design, 2-D design, ceramics, printmaking, and photography.

Theatre facilities include a 175-250-seat thrust/arena mainstage; the Jerry Harper Studio Theatre, a 99-seat studio theatre; and complete shop facilities for scenery, costume design, and construction.

Music facilities in the Fine Arts Building include a 200-seat recital hall; a 75-seat rehearsal room; faculty studios; a music library and listening room; a piano lab; an electronic music studio; and practice rooms. All rooms are sound-isolated, acoustically treated, and feature electronic performance and teaching equipment.
Tournament bids in other sports.

UAA's highly visible athletic teams compete in 11 NCAA sports: men's ice hockey, men's and women's basketball, men's and women's skiing, men's and women's cross country, women's gymnastics, women's indoor and outdoor track and field, and women's volleyball. The Seawolves compete at the Division II level (with the exception of Division I hockey and gymnastics) and are members of the Western Collegiate Hockey Association, the Great Northwest Athletic Conference (basketball, volleyball, cross country, and track), the Mountain Pacific Sports Federation (gymnastics) and the Rocky Mountain Intercollegiate Ski Association.

Over the years, the Seawolves have produced multiple national champions in skiing and gymnastics as well as several NCAA Tournament bids in other sports.

- In 2009 the Seawolves women's basketball team made history when they posted the best record (31–4) in school history and advanced to the NCAA Division II Semifinals for the second year in a row.
- Three runners raced to All-American finishes at the NCAA Division II Cross Country Championships as the Seawolf women's and men's squads placed ninth and 11th, respectively. Both placings marked the best national finishes in the history of the UAA cross country programs.
- The Seawolves were golden in their silver anniversary season, capping a midseason turnaround with the gymnastic program's first-ever league title when they captured the 2009 Mountain Pacific Sports Federation Championships in Colorado Springs.

The 2009 track and field season ended with a record-breaking five All-American honors at the NCAA Championships, 16 new school records, and three new GNAC records.

After being predicted to finish 7th in Ski Racing Magazine's annual preseason NCAA coaches' poll, UAA completed the skiing year with a record-breaking 4th-place performance at Nationals, producing seven All-Americans.

UAA sports receive national television exposure thanks to the annual CArrs/Safeway Great Alaska Shootout basketball tournament, held at the Sullivan Arena. The Nye Frontier Classic is one of the top preseason college hockey tournaments in the country, and the Seawolf volleyball team hosts some of the top Division II programs every September in the UAA Invitational.

The Seawolves train and compete in some of Alaska's top facilities, including the Sullivan Arena for hockey and the Shootout, and the Wells Fargo Sports Complex for volleyball, gymnastics and regular-season basketball. UAA's alpine skiers take advantage of nearby Mount Alyeska, a world-class slope, while the nordic skiers and cross-country runners use Anchorage's intricate trail system to train in a recreational paradise.

ATHLETICS

WENDY WILLIAMSON MEMORIAL AUDITORIUM AND LECTURE HALL
(907) 786-6815
Built in 1972, the Williamson Auditorium provides UAA and the Anchorage community with a venue for lectures, performances, arts events, and community gatherings. The auditorium seats 912 patrons and features plays, music festivals, and speakers from around the world.

CAMPUS ART GALLERIES

Kimura Gallery
(907) 786-1783
The Kimura Gallery, located in the Fine Arts Building, was named to honor Sam Kimura, a professor of photography in 1996. He was instrumental in developing the art program at UAA and achieved international notoriety for his photographs. The gallery not only serves as a pedagogical space for art students, but it also provides a venue for the university and Anchorage communities to experience a wide range of challenging art. As an educational space, it exposes students to innovative artwork that is not local in nature, but international and national in scope whenever possible. The gallery is funded and managed by the Department of Art.

Student Union Gallery
(907) 786-1219
www.uaa.alaska.edu/studentlifeandleadership/activities
The Student Union Gallery's primary mission is to provide art exhibit space for UAA students. The gallery sponsors a variety of art exhibits that have included Bachelor of Fine Arts theses shows, UAA student invitational and juried exhibits, student group exhibits, and theme shows including students and community members. The gallery is managed by Student Activities and funded by student fees.

ATHLETICS

(907) 786-1230
www.goseawolves.com
athletics@uaa.alaska.edu

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INTRAMURAL SPORTS AND THE WELLS FARGO SPORTS COMPLEX

(907) 786-1233
www.goseawolves.com
UAA's Intramural Sports Program in the Wells Fargo Sports Complex allows students to enhance their educational experiences through sports activities and special events. The Intramural Department serves as a means of improving the quality of life, which allows all participants, regardless of degree of skill, an opportunity to develop new friendships, group loyalty, sportsmanship, and the respect for all opponents and officials. The Wells Fargo Sports Complex also serves as a sports recreation center for students with a pool, gymnasium, fitness center, dance studio, and ice rink.

WOLFCARD
(907) 786-4695
www.uaa.alaska.edu/wolfcard
The UAA WOLFCard serves students as their official ID, as a U-Pass to provide free transportation on municipal buses, and as a debit card for on-campus food and services. Visit the WOLFCard website for complete information.

FOOD SERVICE
(907) 751-7246
A variety of food services and menu options are provided throughout the campus. Food service provider NANA Management Sodexho has eight different campus dining areas:

- Bear Necessities, a convenience store in the housing Commons building
- Cuddy Marketplace, a food court in Lucy Cuddy Hall
- Daily Grind, a coffee cart in the dining room of Lucy Cuddy Hall
- Creekside Eatery, a cafeteria in the housing Commons building
- Northern Temptations, a snack bar in the Administration/Humanities Building
- Starbucks in the UAA/APU Consortium Library, a comfortable café
- UAA Perk, a coffee stand in the University Center
- Union Station, a coffee stand in the Student Union.

In addition to the above, the university partners with Subway to offer a full menu selection in the Student Union.
The Lucy Cuddy Dining Room, located in Cuddy Hall, is a fine dining restaurant that is open seasonally to the public. The Culinary Arts & Hospitality students produce and serve affordable gourmet meals. Call for reservations at (907) 786-1122.

**BOOKSTORE**
(907) 786-1151
www.uaa.alaska.edu/bookstore

<table>
<thead>
<tr>
<th>Student Union and University Center locations</th>
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<tbody>
<tr>
<td>The mission of the bookstore is to contribute to the academic excellence of the university by providing for the sale of books and other educational materials to students and members of the university community. The bookstore stocks required and recommended textbooks, course materials, study aids, technical manuals, reference books, fiction, nonfiction, faculty authors, children’s, and Alaskan books. In addition, the bookstore hosts many special events throughout the year to provide additional learning opportunities to the university community and the general public. These opportunities allow students to interact with faculty and world-renowned authors in informal settings.</td>
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**TECH ZONE**
The Academic Source for Technology
(907) 786-4760
www.uaa.alaska.edu/bookstore

The UAA Tech Zone is the Apple™ authorized campus store and carries a great selection of Apple™ computers, and iPods™. Academic discounts are available on computer software for both PC and Mac. The store also carries PDAs, calculators, clickers for classroom use, and computer accessories.

**GENERAL SUPPORT SERVICES**
(907) 786-6860
www.uaa.alaska.edu/gss

UAA General Support Services, located beneath the Bookstore on the main campus, offers a large assortment of services to students.

**COPY, PRINTING AND GRAPHICS**
(907) 786-6860

Students have access to document and graphics services for their personal or class projects at great savings.

**MAIL SERVICES**
(907) 786-6860

Complete outbound mail services are available to students. All outbound carriers are available, i.e., USPS, FEDEX, and UPS.

**PARKING SERVICES**
(907) 786-1119
www.uaa.alaska.edu/parking

Campus parking provides permits for on-campus parking and has space for more than 3,000 vehicles. Permits are available online at www.thepermitsstore.com. Parking Services also offers jumpstarts and vehicle unlocks. UAA Seawolf Shuttle service runs continuous loops weekdays among all main parking lots and the University Center for students and staff convenience. All campus lots are paved, lighted, and patrolled. Vehicles parked in restricted areas without proper decal or permits will be ticketed and may be impounded at a cost to the owner. Failure to pay parking tickets may result in withholding of transcripts or grades, or impounding of a vehicle at owner expense.

**PARKING SERVICES**
(907) 786-1119
www.uaa.alaska.edu/parking

These parking spaces display distinctive blue-and-white logos. The appropriate handicap permit issued by the state of Alaska Department of Motor Vehicles must be displayed, along with a valid UAA parking permit or Pay ‘n Park receipt, to legally park in these designated spaces. All other motorists will be ticketed. Illegally parked vehicles may be impounded at owner expense.

**INFORMATION AND TECHNOLOGY SERVICES**
(907) 786-4646
http://technology.uaa.alaska.edu

The IT Services Department provides local campus network, computing, telephone, audiovisual, and online curriculum services to the UAA community. IT Services is committed to providing students, staff, and faculty with a variety of important and useful technology-related services. A brief summary of services is provided below.

**TELEPHONE SERVICES**
http://technology.uaa.alaska.edu/telephone

IT operates UAA’s telephone utility. Students living in university residence halls receive local telephone service and voicemail services through this system. Students can purchase prepaid long distance calling cards from several locations on campus.

**CUSTOMER SUPPORT**
http://technology.uaa.alaska.edu/computer/OnSite callcenter@uaa.alaska.edu

The IT Call Center serves as the point of contact for all technology-related services. Technicians can assist students in the following areas: telephone services, desktop services, data network and computing services, Internet access, e-mail services, appropriate computing use policies, software licensing, basic software/hardware troubleshooting, and online curriculum.

**CAMPUS OPEN-ACCESS COMPUTER LABS**
http://technology.uaa.alaska.edu/computer/Labs

IT maintains computer stations across campus that provide Internet and e-mail access, laser printing, and a variety of popular software applications on both PC and Macintosh platforms. All university employees and registered UAA students are encouraged to use these facilities. Lab consultants are available to assist with basic equipment/software operation and campus resources.

**E-MAIL SERVICES**
http://technology.uaa.alaska.edu

E-mail accounts are available to all students, staff, and faculty. Visit the website for more information.

UAA uses e-mail and the MyUA web portal to communicate with students on many important matters. Please refer to Chapter 5, Student Freedoms, Rights, and Responsibilities, for more details.

**WEB HOSTING SERVICE**
http://technology.uaa.alaska.edu/computer/WebHosting

Students have access to a web-hosting environment at UAA for creation and support of personal webpages and content. Student content placed into these webpages must conform to UAA’s appropriate use guidelines and information resources policy. Students should contact the IT Call Center or visit the website for further information on this service.

**DISTANCE EDUCATION**
www.uaa.alaska.edu/distanceeducation

The Distance Education site is the primary web source for information about distance learning and associated technologies. Many UAA instructors use this resource and place course materials online. From this web location, students, prospective students, faculty, and the community can learn about UAA’s distance...
education courses, Blackboard®, support services, and faculty training workshops. (See Chapter 6, Educational Delivery Methods and Nontraditional Credit, for further information.)

**TRAINING SERVICES**

IT offers a variety of general interest computer and network related short courses open to both students and employees. Courses are held in the University Center (UC) computer lab.

**CAMPUS HOUSING AND RESIDENCE LIFE**

(907) 751-7200 (Housing)  
www.uaa.alaska.edu/housing  
(907) 751-7444 (Residence Life)  
www.uaa.alaska.edu/residencelife

University Housing and Dining Services and the Department of Residence Life provide students with a living and learning environment that supports the academic experience. (See Chapter 6, Advising and Academic Support, for further information.) Programs and activities provide the framework for active participation in each community. Residence Life offers educational workshops on college survival skills, roommate relationships, alcohol and drug awareness, awareness of global diversity, career planning, and personal safety.

Four types of furnished suites are available: single private bedroom; two-person suite with single bedrooms; four-person suite with single bedrooms; and four-person suite with double bedrooms. Both traditional and condominium style apartments are also available in the Main Apartment and Templewood complexes. All residence hall rooms have access to the university’s computer network.

**ACADEMIC THEME HOUSING**

Alyeska Community in West Hall provides a supportive environment for science and engineering majors, particularly Alaska Native and rural students. This program helps students develop close ties with others of similar backgrounds and interests as they adjust to campus life together.

First-Year Experience Hall is a comprehensive program in North Hall designed exclusively for first-year college students under the age of 20 who have completed 20 or fewer college credits. Individuals participating in this program will also enroll in GUID A150, a 3-credit academic course focusing on college survival skills, taught in North Hall. The hall creates a supportive living and learning environment through social events, leadership opportunities, study groups, tutoring, community service opportunities, academic and living skills workshops, discussion groups, and peer support and mentoring.

First-Year Focus Community in West Hall is for first-year college students under the age of 20 who have completed 20 or fewer college credits. Residents will experience a close-knit community enhanced through programming, peer support, and mentoring.

Honors Community is located on the fourth floor of East Hall and promotes interaction between the academic and residential communities on campus. These students also take part in the Honors Program.

Nightgale Community is a specialized living arrangement that eases the transition for nursing and pre-nursing students to campus living in Anchorage. The students living in the residence halls will get the benefits of on-site nursing-content learning aids, dedicated living room space for study, plus social, cultural and academic interactions, as well as mentors and tutors in pre-nursing and nursing courses.

Aviation Community is designed for aviation majors or students planning to pursue a career in aviation. The Aviation Department, in conjunction with Residence Life, works to provide peer academic mentoring, social and educational programming, and networking with individuals in the aviation profession.

Teaching and Learning Community is for education majors or students exploring careers in teaching. Bringing students together through social and academic events, they have opportunities to develop relationships with peers and engage with faculty and other professionals in the field of education.

**HEALTH AND WELLNESS**

**STUDENT HEALTH AND COUNSELING CENTER**

(907) 786-4040  
www.uaa.alaska.edu/studenthealth

The Student Health and Counseling Center (SHCC) provides educational, preventive, diagnostic, and treatment services to eligible students. It is staffed by advanced nurse practitioners who specialize in family, adult, and mental health. The primary health care benefits available onsite by paying the student health fee include free routing office visits, reduced cost for procedure visits, and reduced cost for laboratory and radiology services. Limited pharmacy items are also available at reduced cost. Services include family planning, immunization, travel health screening, community referrals, and program-required physicals.

Advanced psychiatric nurse practitioners and master’s-level counselors provide mental health counseling using a brief therapy model. Additionally, the advanced nurse practitioners are able to offer medication management to students in need. The nurse practitioners and counselors act as client advocates when assisting individuals in dealing with stressful life events, depression, anxiety, sexual and physical abuse, alcohol and drug dependency, situational crises, and other life issues. There is no charge for mental health intake assessments. Therapy, medication management, or a combination appointment for medication and therapy is $15.

**COUNSELING SERVICES**

(907) 786-6158

Student Affairs counselors provide assistance with concerns affecting academic success, such as stress, situational crises, alcohol and other drug issues, and life changes. Other services include sexual assault counseling support, referrals to community agencies, including sexual orientation resource referrals, and educational workshops on responding to personal life issues. These counseling services are provided at no charge to UAA students.

**PSYCHOLOGICAL SERVICES CENTER**

(907) 786-1795

The center offers low-cost therapy and counseling to families, couples, and individuals of all ages for a variety of problems. Clinical psychology students in the last phase of study for the master’s degree see patients under the supervision of licensed psychologists from the Psychology Department faculty. Services are available to the campus community. A fee schedule is based on each individual’s ability to pay.

**INSURANCE**

**STUDENT HEALTH INSURANCE**

(907) 786-4049  
www.uaa.alaska.edu/studenthealth/insurance.cfm

Health insurance is mandatory for international students on student visas. Contact the Office of Admissions for specific requirements.

A group student health insurance plan is available for purchase to enrolled UAA students who are eligible for SHCC services. For an additional premium, dependents and major medical expenses may be covered. Students can obtain more information through the Student Health and Counseling Center.
ALCOHOL POLICIES

The university is concerned about ways in which alcohol use and abuse affect the primary academic mission of the institution, its overall atmosphere, and the personal well-being of the university community. The university has the duty to exercise the degree of care that a reasonable person would to ensure that private and public events are conducted in accordance with state law. Whether or not a person drinks alcoholic beverages is a personal decision, but individuals are held personally accountable for their actions.

CAMPUS ALCOHOL POLICY

The primary objectives of UAA’s policies and procedures on alcoholic beverages are to ensure responsible behavior and attitudes among all members of the university community, to educate the university community concerning the use and effects of alcoholic beverages in order to promote responsible decision-making and to help individuals experiencing difficulties associated with the use of alcohol. The chancellor or the vice chancellor for Student Affairs has the authority to approve events where alcoholic beverages may be served to individuals of legal age with positive identification. Approval to serve alcoholic beverages may be granted on designated premises for private university-sanctioned events. The sale of alcoholic beverages at university-sanctioned events on campus is not permissible and is not approved by the chancellor.

Personal consumption, possession, or display of beer, wine or other alcoholic beverages is prohibited in university public places. The possession of kegs and other large quantities of alcoholic beverages will only be allowed by special permission of the chancellor. Any person who exhibits offensive behavior, misconduct, excessive noise or creates a public disturbance on property owned or supervised by the university will be subject to disciplinary and/or legal action. (See Chapter 5, Student Rights, Freedoms, and Responsibilities, for further information.)

RESIDENCE LIFE ALCOHOL POLICY

The alcohol policy for the UAA residence halls and apartments permits those residents who are 21 years of age or older to possess and consume limited quantities of alcoholic beverages in accordance with Residence Life policies. All other restrictions on personal alcohol consumption outlined above and in the Student Code of Conduct apply to resident students and their guests. The Residence Life policy is subject to annual review by the university administration and the Residence Hall Association.

UAA RESIDENTIAL COMMUNITY WELLNESS INITIATIVE

The Department of Residence Life and University Housing/Dining/Conference Services (UHDCS) provide healthy and academically supportive living environments for students. The following communities are designated as Substance Free Housing:

- Alyeska Communities
- First Year Experience
- First Year Focus

Substance Free Housing prohibits residents and their guests from possessing or consuming alcohol, smoking tobacco products, using or possessing drugs or other intoxicants, and possessing drug paraphernalia. All residents, including those 21 years of age and older, living in a designated Substance Free Housing community must adhere to the Substance Free Housing expectations. The Department of Residence Life has a strongly enforced expectation that all residents and their guests comply with all federal, state, and university regulations related to the use or possession of alcohol and other drugs. All residence halls and apartments are non-smoking. Smoking of tobacco products must be done 50 feet away from buildings.

DRUG AND ALCOHOL COUNSELING RESOURCES

Additional university information and policies, health risks, counseling resources, and state of Alaska laws and penalties pertaining to alcohol and other drugs can be found in the Drug Free Schools statement, which is available online or in hard copy from the Dean of Students Office. The National Institute on Drug Abuse Hotline (1-800-662-HELP) is an information and referral line that directs callers to treatment centers in the local community.

Alcoholics Anonymous provides free services for individuals with alcohol problems at (907) 272-2312.

LOST AND FOUND

(907) 786-1204 (Student Union)
(907) 786-1120 (University Police)

Two centralized lost-and-found property storage areas are maintained on campus. The University Police accepts wallets, keys, and items that are valued at $250 or more.

To check for a lost item, contact the University Police Department in the Eugene Short Hall, at (907) 786-1120. The Student Union Information Desk accepts all other lost items. To recover found property, contact the Student Union Information Desk.

OUTDOOR LIFE

UAA is surrounded by mountains, lakes, trails, and rivers. Anchorage offers extensive multi-use trails for walking, skiing, and biking, which are groomed in the winter. Within a half-hour drive the wilderness of Alaska offers hiking, camping, kayaking, skiing, and fishing. Students may rent outdoor equipment from the Student Union.

UAA housing residents have access to a wide variety of outdoor adventure programs operated through the Recreation & Activities Office. Recreation & Activities offers adventures including rock and ice climbing, whitewater rafting, canoeing, sea kayaking, hiking, nordic and alpine skiing, snowboarding, and backpacking. During the academic breaks (holiday, Thanksgiving, and spring break) Recreation & Activities offers extended trips in amazing locations.

Recreation and Activities provides specialized equipment and instruction for all trips. Participants do not need experience to participate. All instructors hold certifications in numerous disciplines including medical, climbing, skiing, and rafting.

PETS ON CAMPUS

Anyone wishing to bring pets onto campus must first contact the University Police Department. Pets are not permitted in any of the campus buildings without prior permission. Any animals outside the buildings must be on a leash, in a cage, or under some form of restraint. Students experiencing disabilities need to contact Disability Support Services for the approval process to bring service animals into classrooms and residence halls and apartments.
SAFETY
www.uaa.alaska.edu/students/campussafety.cfm

AUTOMOBILE INSURANCE
Under Alaska law, all owners and drivers of vehicles must maintain adequate insurance coverage. Students are responsible for arranging their own auto insurance. Student vehicles are not covered under UAA's auto insurance plan. Personal property insurance is also the responsibility of each student.

EMERGENCIES AND FIRST AID
(907) 786-1120
Emergency messages may be transmitted and first aid treatment received by contacting the University Police Department in the Eugene Short Hall. Please report unsafe conditions and all on-campus injuries to the University Police Department. Emergency assistance is available through Anchorage Police Department by dialing 8-911 from an on-campus phone.

SAFETY ESCORTS
(907) 784-1147
www.uaa.alaska.edu/parking/callteam
The UAA Call Team provides safety escorts for students, faculty, and staff to any UAA campus location when desired.

SPEED LIMIT
Unless otherwise posted, the campus speed limit is 20 miles per hour. Radar and marked patrol cars are used to ensure safety and compliance. Uniform traffic citations are issued for moving violations and may be paid in District Court, downtown Anchorage.

UNIVERSITY POLICE
(907) 786-1120
www.uaa.alaska.edu/upd
The University Police Department is on duty 24 hours a day, seven days a week, to provide safe access to the campus, to prevent disruptive behavior, and to offer a variety of services to the community. The department employs dispatchers and uniformed police officers to accomplish these goals.

Students, staff, faculty, and visitors should contact the University Police Department to report all crimes, suspicious circumstances, and emergencies on campus, as well as to seek help with the following:

• Safety escorts
• Accident reports
• Room unlocks
• Suspicious people
• Criminal reports
• Disturbances

The University Police Department can be contacted by calling (907) 786-1120 from an off-campus phone or by dialing 6-1120 from an on-campus phone.

In the event of an emergency, the department can also be contacted by using one of the 13 exterior emergency call boxes or by picking up any elevator phone, either of which will automatically route the call to the University Police Department.

SMOKE-FREE ENVIRONMENT
Smoking is not permitted in university facilities. All UAA facilities are covered by this policy (Anchorage, Kenai Peninsula College, Kodiak College, and Mat-Su College). Coverage includes facilities owned, leased, or rented by the university or under control of the university, as well as all university vehicles. Violation of the smoke-free environment policy by staff, faculty, or students is subject to disciplinary action.

Campus buildings are posted with NO SMOKING signs, notifying all visitors of the smoke-free policy.

WILDLIFE ON CAMPUS
The main campus of UAA is situated next to a greenbelt and several small lakes. Sightings of moose, coyotes, and black bear are not uncommon. People must remember that wild animals are dangerous and unpredictable. Maintain a safe distance from all wildlife and notify University Police of their presence. Feeding or harassment of any wildlife is a violation of the University Student Code of Conduct and state law. Officers will enforce these statutes and policies.
**RESIDENT TUITION ASSESSMENT**

**BOARD OF REGENTS’ POLICY P05.10.025**

A. For the purpose of tuition assessment under this chapter, a resident is a person who, at the end of the add/drop period for regular semester-length courses, is a United States citizen or eligible non-citizen who has been physically present in Alaska for two years and who declares the intention to remain in Alaska indefinitely. “Eligible non-citizen” shall have the same meaning as that term is used in determining eligibility for federal student financial aid. Physical presence will be determined by criteria established in university regulation. Alternatively, a person who received or has been qualified by the State of Alaska Permanent Fund Dividend Division to receive an Alaska Permanent Fund Dividend within the last 12 months, certifies they have been in Alaska for the past 12 months, and declares their intent to remain in Alaska indefinitely or meets other resident tuition eligibility requirements specified in regents’ policy will be eligible for resident tuition assessment. The MAU chief enrollment officer or designee will apply these rules to the facts in individual cases.

B. Notwithstanding the provisions of subsection A above, a student will be ineligible for resident tuition purposes unless exempted by P05.10.050 if:
   1. during the two years of claimed residency, the student was absent from Alaska for an aggregate of more than 120 days otherwise than documented absences due to illness, or attendance at another educational institution while maintaining Alaska residency;
   2. during the prior two years, the student did any act inconsistent with Alaska residency such as claiming residency in another state or voting as a resident of another state;
   3. during the past two years, the student has registered as a resident in an educational institution in another state; or
   4. during the past two years, the student has paid tuition at the University of Alaska at the Western Undergraduate Exchange (WUE) program rate.

C. Notwithstanding provisions of this chapter, the residency of a student who first registered at the university, or was recruited based upon and was promised application of a former policy which was then in effect prior to the effective date of the adoption of this policy, shall be determined under the regents' policy in effect at the time the student registered or received such promise from an authorized representative of the university, if that is to the student’s benefit.

**NONRESIDENT TUITION SURCHARGE**

**BOARD OF REGENTS’ POLICY P05.10.050**

Any person who does not qualify as an Alaska resident under P05.10.025, or has not otherwise been exempted under this chapter, will be assessed a nonresident tuition surcharge in addition to regular tuition. However, the following persons are exempted from nonresident tuition surcharges and treated as a resident for the purpose of tuition assessment if they are a U.S. citizen or an “eligible non-citizen”:

A. Active duty United States military and their spouse and dependent children;

B. United States veterans eligible for a Veterans Administration education benefit, and their spouse and dependent children. Students qualifying under this exemption must move to and remain domiciled in the state of Alaska during their course of study;

C. Members of the National Guard, their spouses and dependent children, regardless of whether they yet qualify as residents of the state under any other requirements;

D. Dependent children of a person who graduated and holds an associate’s, bachelor’s, master’s or doctor’s degree from the University of Alaska;

E. Dependent children of an Alaska resident as evidenced by the most current federal income tax return filed within the past 16 months;

F. Students participating in the Western Interstate Commission on Higher Education (WICHE) Western Regional Graduate Program (WRGP);

G. Students enrolled for 4 or fewer credit hours within the UA system during a semester;

H. Students from other states or provinces whose public universities waive nonresident tuition surcharges for Alaska residents, as may be approved by the university president; a list of participating states or universities shall be published in university regulation;

I. Students from foreign cities and provinces that establish sister city or sister province relationships with the state of Alaska, or Alaska municipalities, and that have been approved by the president; a list of participating and approved communities shall be published in university regulation;

J. Students designated by the UA Scholars Program as UA Scholars;

K. Participants of the University of Alaska College Savings Plan who meet eligibility criteria as may be established by the Education Trust of Alaska.

L. Spouse or dependent children of a University of Alaska employee; or

M. Students who graduated within the past 12 months from a qualified Alaska high school. “Qualified Alaska high school” shall have the same meaning used to determine eligibility for the UA Scholars Program.

**WESTERN UNDERGRADUATE EXCHANGE (WUE)**

UAA participates in the WUE program of the Western Interstate Commission for Higher Education (WICHE) and other western states. Through WUE, certain students who are not Alaska residents may enroll in designated UAA programs. They pay resident tuition plus 50 percent of that amount (plus other fees that are paid by all students). WUE students do not pay the higher nonresident student tuition.

Because UAA participates in WUE, residents of Alaska may enroll under the same terms in designated institutions and programs in other states.

Information about WUE programs at UAA may be obtained from Enrollment Management. Alaska residents may obtain information about WUE programs in the states from either of the following two addresses:

- **Certifying Officer for Alaska Commission on Postsecondary Education**
  3030 Vintage Blvd.
  Juneau, AK 99800
  Phone: (800) 441-2962
  WICHE Student Exchange Program
  3035 Center Green Dr., Ste 200
  Boulder, CO 80301-2204
  Phone: (303) 497-0210
  http://wue.wiche.edu
**TUITION SUMMARY**

**TUITION COST**

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<tr>
<th>Division</th>
<th>Undergraduate (Course Numbers 050 - 299)</th>
<th>Graduate (Course Numbers 600 - 699)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident</td>
<td>$141.00 per credit hour</td>
<td>$316.00 per credit hour</td>
</tr>
<tr>
<td><em>Nonresident</em></td>
<td>$471.00 per credit hour</td>
<td>$646.00 per credit hour</td>
</tr>
</tbody>
</table>

**FEES**

In addition to tuition, any course may use materials, supplies, or services which necessitate an additional fee. Fees may also be charged for administrative and/or instructional services. All resident and nonresident tuition rates and student activity fees are approved by the Board of Regents of the University of Alaska. The university reserves the right to change tuition rates or fees at any time. Fees will vary at community campuses. Fees are charges students must pay either in addition to or in place of tuition.

- **2% Network Charge**
  - Administrative Fee: Variance
- **Audit Fee**
  - Auditors pay the same tuition and fees as students registering for credit.
- **Continuing Education Unit (CEU) Fee**
  - This fee varies. It is charged per continuing education unit instead of tuition.
- **Continuous Registration Fee**
  - Continuous registration is expected of graduate students. (See Chapter 12, Graduate Programs, for information).
- **Credit-by-Examination Fee**
  - A nonrefundable $40-per-credit fee is charged to challenge a course.
- **Distance Fee**
  - A Distance fee is charged for each distance education course. The fee amount varies.
- **Laboratory, Material, Special, and Other Fees**
  - A fee is sometimes charged in addition to tuition. The semester class listing identifies courses for which fees are charged and their purpose: lab fee, special fee, or materials fee. Fee amounts vary.
  - Special fees are assessed to pay for travel, equipment, or facilities out of the ordinary. The typical fees listed above normally cover university charges for course registration. Some courses, however, have extraordinary expenses associated with them, and in such cases the university may charge additional fees in amounts that approximate the added instructional or laboratory costs. If other costs are required for the course, they will be listed in the semester class listing.
- **Language Credit-by-Placement Fee**
  - An accepted, degree-seeking UAA student who has completed in residence a Department of Languages UAA catalog course with a grade of B or better is eligible to receive credit for the two immediately preceding language courses.
LATE PAYMENT FEES
A $125 fee will be assessed on all accounts which are not paid by the payment deadline. An additional $175 fee will be assessed on all accounts which are not paid prior to the published late payment assessment date. Students who pay for or drop their courses prior to the published deadline will not be required to pay the fees.

NONCREDIT COURSE FEE
Noncredit courses are numbered A001-A049. These courses do not meet degree requirements and may have fees other than regular tuition. Such fees are listed in the semester class listing as special fees.

PARKING FEE
All areas on campus except “Visitor Parking” require an appropriately displayed parking permit. Permits may be purchased online at www.thepermitstore.com or from the UAA Parking Office any time throughout the semester. The UAA Parking Office is located in the UAA Campus Bookstore basement. Permit fees are non-refundable. For further details, contact Parking at (907) 786-1119, or visit www.uaa.alaska.edu/parking.

PLACEMENT TEST FEE
Testing fee for course placement.

SELF-SUPPORT TEST FEE
Fee for a course that is funded entirely through the revenues collected when students sign up for that specific course. Costs vary by course and may include salaries, supplies, advertising, facilities, and travel. Separate refund policy applies.

STUDENT LIFE FEE
All students enrolled in 6 or more credits and having at least one course (3 credits or more) on the Anchorage campus are assessed a per-credit mandatory Student Life fee per semester for access to student-related programs and facilities: Athletics, Sports Complex, Student Activities, and Student Health and Counseling Center.

Students enrolled in at least 1 academic credit but not meeting the enrollment requirements above, whether enrolled on or off campus, may elect to pay certain student fees for access to these services. Student Life Fees for students registered in fewer than 6 credits are set at a fixed rate. Contact the Issue Cage in the Wells Fargo Sports Complex for information about an Athletics/Sports Complex Fee, and contact Student Activities in the Student Union building regarding a Student Activity Fee. Note: Summer Student Life fees are listed in the class listing.

STUDENT ORGANIZATION FEES
All students, with the exception of senior citizens, enrolled in 3 or more credits on the Anchorage campus are assessed mandatory student organization fees per semester: A USUAA Fee for the student government, a Concert Program Fee, and a Student Media Fee for the Northern Light student newspaper and KRUA 88.1 FM student radio station. The use of these fees is governed by the Union of Students at UAA (USUAA) Constitution.

Students enrolled in at least 1 academic credit but not meeting the enrollment requirements above, whether enrolled on or off campus, may elect to pay these fees per semester in order to have access to student organization programs and services.

Summer session students are not assessed the Concert Program Fee.

STUDENT TRANSPORTATION FEE
$10 for students registered in 3 or more credits to support Campus Shuttle Service, U-Pass People Mover Program (citywide bus pass), bicycle racks, trail/sidewalk maintenance, and Call Team walking escorts.

Note: The Aviation Technology Center, King Career Center, University Center, and Wendler Junior High are considered Anchorage on-campus facilities for purposes of Student Life Fee, Student Organization Fee, and Student Transportation Fee assessments.

TECHNOLOGY FEE
A fee to provide up-to-date equipment, software, maintenance, training, and support for student use.

TRANSCRIPT FEE
A per copy fee is charged for routine or rush processing and must be paid in advance.

FINANCIAL OBLIGATIONS
The University of Alaska Anchorage reserves the right to withhold final grades, transcripts, or diplomas from students who have not fulfilled all their financial obligations to the institution. Permission to register will be denied for adding or auditing courses, or a student’s current registration may be canceled. Students are held financially responsible for all courses for which they register. Interest, late fees, or collection costs will be added to a student’s account. Past due accounts will be sent to a collection agency and reported to the credit bureau. The university is authorized to garnish State of Alaska PFDs for payment of past due accounts.

UAA uses the UAA-assigned e-mail address and the MyUA web portal to communicate with students on many important matters, including financial matters. Please refer to Chapter 5, Student Freedoms, Rights, and Responsibilities, for more details.

PAYMENT PROCEDURE
All tuition, fees, and other charges for the semester must be paid by the applicable deadline or at the time of registration. Payment may be made in cash, by check, VISA, or MasterCard. Students requiring a payment plan may enroll with Tuition Management Services (800-722-4867). Refer to www.uaa.alaska.edu/budfin/ar/tuition.cfm for the available payment plan options.

Tuition and fee charges may be audited, corrected, and adjusted before the end of the current semester. Students are notified of adjustments by mail. No refunds are issued for $5 or less. The university reserves the right to change its tuition or fees at any time.

REFUND POLICY
Refund processing is automatic for students who officially drop courses or withdraw from the university by the refund deadlines. Students are responsible for thoroughly reading the class listing and being aware of the published refund deadlines for their particular classes. The date of official drop or withdrawal activity determines eligibility for a refund.

Students who drop or withdraw, or who are administratively dropped or withdrawn from courses as a result of university disciplinary action, forfeit all rights to any refund.

If there is a refund due to the student and the tuition was paid by credit card, the credit card account will be credited. If tuition was paid by cash or check, a refund check will be mailed to the student’s address of record. Refunds will not be issued for amounts of less than $5. $18.50 is charged for all checks reissued due to a stop-payment request by the student.

CANCELED CLASSES
If UAA cancels a class, students may add another class of equal cost at no additional tuition charge. If a replacement class is not added, a 100 percent refund of tuition and course fees is automatically processed. Refund processing dates are listed in the current class listing.

WITHDRAWAL FROM CLASSES
No tuition fee refund or exchange will be allowed for withdrawal after the drop deadline.
NON-CREDIT, CEU, AND SELF-SUPPORT CLASSES
100 percent of all tuition charged is refunded if the student officially drops at least two (2) business days before the first class begins. There is no refund after this time.

REGULAR TUITION, CREDIT COURSES (full semester)
- 100 percent of both the tuition and course fees are automatically refunded when official drop/withdrawal activity is completed prior to the end of the seventh calendar day of the semester.
- 50 percent of tuition only is automatically refunded when official drop/withdrawal activity is completed in the eighth through the twelfth calendar days of the semester. Course fees are not refunded on or after the eighth calendar day of the semester.
- No refund is issued for a drop/withdrawal made on or after the thirteenth calendar day of the semester.
- Refund deadlines for less-than-semester-length classes are prorated.

Please refer to the current semester’s class listing for additional information.

SENIOR CITIZEN TUITION WAIVER
Regular tuition shall be waived for Alaska residents who are otherwise age eligible to receive full social security retirement benefits, and who register on a space-available basis; that is, when courses can accommodate such students in addition to other enrolled students. Individuals who were eligible for senior citizen tuition waivers on September 21, 2005, under the previous policy shall continue to be eligible for the waiver. Use of senior citizen waivers is governed accordingly:
- Senior citizens must pay all additional course fees. To waive tuition, senior citizens must register and present a completed tuition waiver with proof of age during the late registration period.
- Registration using a senior citizen tuition waiver for payment is permitted only during the add/drop period and must be completed by the add deadline.
- Senior citizens may elect to register before the add/drop period; however, they must pay full tuition and fees (use of senior citizen tuition waiver will not be accepted). Senior citizens electing to register and pay tuition are subject to all payment deadlines. Refunds will NOT be available to senior citizens who drop courses and then re-register in the same courses using a tuition waiver during the add/drop period.
- The Student Government Fee and Student Media Fee are waived for senior citizens. The Student Life Fees and Student Transportation Fee are mandatory for all students taking 3 or more credits on the Anchorage campus.

OFFICE OF STUDENT FINANCIAL ASSISTANCE AND INFORMATION
(907) 786-6190
www.uaa.alaska.edu/financialaid

The Office of Student Financial Assistance and Information assists students and prospective students in applying for state and federal aid programs. State and federal governments, the university, and many private organizations offer grants, scholarships, loans, and employment opportunities to students who demonstrate need for such assistance. Each student’s financial situation is carefully assessed, taking into consideration family size, assets, income, and estimated costs of attending college. Types and amount of financial aid vary according to state and federal guidelines, student needs, and availability of funds.

FINANCIAL AID APPLICATION PROCEDURES
Interested students should contact the Office of Student Financial Assistance and Information for information and applications. Students should submit applications at least six months before the beginning of the semester for which they are applying. For the upcoming fall semester, the Office of Student Financial Assistance and Information should have received completed applications and required additional forms by June 1 at the latest. Applications received after this date will be considered if funds are available. Specific procedures are as follows:

1. New students must first apply for formal admission to UAA through the Office of Admissions by the appropriate deadline.
2. All interested students must complete a Free Application for Federal Student Aid (FAFSA) and submit the application to the Department of Education. List UAA’s Title IV code on FAFSA (011462). We recommend you apply online at www.fafsa.ed.gov. It is faster and more accurate.
3. Students who wish to apply for a specific scholarship may complete special applications available at the Office of Student Financial Assistance and Information or online at www.uaa.alaska.edu/scholarships.
4. Students who wish to apply for Bureau of Indian Affairs grants or scholarships should contact the BIA or their Native regional corporation for applications.

FINANCIAL AID ELIGIBILITY
To be considered for financial aid, a student must:

1. Have a high school diploma or its equivalent.
2. Be accepted for admission with no conditions.
3. Demonstrate financial need for federal assistance as determined by the federal Student Aid Report (SAR).
4. Meet satisfactory academic progress as defined by Student Financial Aid regulations. The policy is available online at www.uaa.alaska.edu/financialaid.

FEDERAL VERIFICATION
The U.S. Department of Education selects approximately 30 percent of financial aid applications for the verification process. The Office of Student Financial Assistance and Information verifies information on selected applications prior to students receiving financial aid awards. Copies of the following documents may be requested:

1. Income tax returns
2. Verification of household size
3. Child support payments
4. Statements of untaxed income
5. Verification of number of family members in college
6. If military, copies of Leave/Earning Statements for previous tax year (all 12 months)

Students selected for verification must submit the requested documents if applying for federal financial aid. If documentation is not received, federal financial aid cannot be awarded.

SATISFACTORY ACADEMIC PROGRESS
To remain in good standing for federal assistance, students must complete the number of credits upon which the semester’s aid was based. In addition, they must maintain a minimum grade point average (GPA) of 2.00 for undergraduates and 3.00 for graduate students.

SATISFACTORY ACADEMIC PROGRESS POLICY
www.uaa.alaska.edu/financialaid/policies.cfm
In order to receive financial aid from any of the federal aid programs, the State of Alaska loan programs or from institutional funds, a student must be fully admitted to an eligible degree or certificate program. In addition, the student must maintain satisfactory academic progress toward his/her educational goal. A complete copy of the Satisfactory Academic Progress Policy may be obtained online or from the Enrollment and Financial Assistance and Information One-Stop counter at the University Center.
FINANCIAL AID APPEAL POLICY
www.uaa.alaska.edu/financialaid/policies.cfm
Students who wish to appeal for reinstatement of their financial aid must provide sufficient evidence to support their assertion that unusual circumstances prevented them from maintaining satisfactory academic progress. Please see the guidelines for financial aid appeal policy on the web.

RETURN OF FEDERAL FINANCIAL AID POLICY
www.uaa.alaska.edu/financialaid/policies.cfm
The Higher Education Amendments of 1998 changed the formula for calculating the amount of aid a student and school can retain when the student totally withdraws from all classes. Students who withdraw from all classes prior to completing more than 60 percent of an enrollment term will have their eligibility for aid recalculated based on the percent of the term completed. For example, a student who totally withdraws after completing only 30 percent of the term will have “earned” only 30 percent of any Title IV aid received. The school and/or the student must return the remaining 70 percent. The Office of Student Financial Assistance and Information encourages you to read this policy carefully. If you are thinking about withdrawing from all classes prior to completing 60 percent of the semester, you should contact the Office of Student Financial Assistance and Information to see how your withdrawal will affect your financial aid.

TYPES OF FINANCIAL AID

Grants
Grants are financial aid awards which do not need to be repaid as long as the student meets academic progress requirements of the granting agency.

BUREAU OF INDIAN AFFAIRS (BIA)
The Bureau of Indian Affairs makes grants available to eligible full-time students. Applicants must be at least one-quarter Alaska Native or American Indian. For further information, contact the local BIA area office or Native regional corporation.

FEDERAL PELL GRANT
The Federal Pell Grant makes funds available to eligible students with financial need. To be eligible for a Pell Grant, students must be working toward their first baccalaureate degree.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (FSEOG)
The Federal Supplemental Educational Opportunity Grant program is similar to the Pell Grant program and can provide additional assistance to students with financial need and who received a Pell. Only undergraduates working towards their first baccalaureate degrees are eligible.

LOANS

EMERGENCY LOAN FUND (ELF)
Thirty-day loans are available when school is in session to assist students with books. An admitted full-time student making satisfactory progress may borrow a maximum of $600 for up to 30 days. A $10 administrative fee is charged. Students may receive one ELF per semester, subject to Financial Aid Disbursement approval.

FEDERAL FAMILY EDUCATION LOAN PROGRAM (FFELP)
A. FEDERAL STAFFORD LOAN PROGRAM
The Stafford Loan Program enables students to borrow directly from lending institutions after they have qualified by completing the Free Application for Federal Student Aid (FAFSA). Any undergraduate or graduate student enrolled at least half-time may apply for a Stafford Student Loan. This is a separate application process. The Office of Student Financial Assistance and Information has application forms and information for students’ consideration.

1. Federal Subsidized Stafford Student Loan
Dependent and independent students who have qualified using the FAFSA and determined to have need according to the federal methodology can borrow up to: $3,500 as a first-year undergraduate student. $4,500 as a second-year undergraduate student and for students in a baccalaureate degree. $5,500 as a third-, fourth- and fifth-year undergraduate student. $8,500 as a graduate student.
The aggregate loan amount for undergraduate study is $23,000; the aggregate loan amount for graduate study is $65,500 minus any amount previously borrowed for undergraduate study.
The subsidized Stafford Loan means the federal government pays the interest while the student is attending post-secondary education at least half time and for six months after graduation or after the student has left their post-secondary educational experience.

2. Federal Unsubsidized Stafford Student Loan
This loan is considered a non-need based loan. Students are responsible for paying the interest on this loan immediately from the time the unsubsidized loan is disbursed. Independent freshmen and sophomore undergraduate students can borrow up to $4,000 annually in addition to the amount borrowed on the subsidized Stafford. Independent juniors and seniors can borrow up to the limits of the subsidized loan and up to $5,000 annually in addition to the amount they are eligible for on the subsidized loan. Undergraduate students can borrow up to $10,000 annually in addition to the amount borrowed on the unsubsidized loan. Graduate students can borrow up to a maximum loan limit of $23,000 on unsubsidized loan borrowing. Graduate students can borrow up to a maximum of $73,000 on the unsubsidized loan program, including the amount borrowed as an undergraduate student.

B. FEDERAL PARENTS’ LOANS FOR UNDERGRADUATE STUDENT (PLUS)
Parents can borrow for their dependent student’s educational costs. Parents can borrow up to the cost of education attendance minus any other financial aid for which the student is eligible. UAA requires student applicants to submit the FAFSA to determine eligibility of their parents’ PLUS loan. The interest on the PLUS loan begins to incur with the parental signature on the promissory note. Payments usually begin 60 days after the loan is fully disbursed.

Scholarships
www.uaa.alaska.edu/scholarships
Scholarships are usually awarded for academic achievement or talent. Students interested in applying for scholarships may stop by the Office of Student Financial Assistance and Information to view scholarship listings and obtain applications or visit the website.

FEDERAL WORK-STUDY PROGRAM
www.uaa.alaska.edu/financialaid/workstudy.cfm
The Office of Student Financial Assistance and Information awards work-study to the eligible student. It is based on financial need, which is calculated from the information provided on the Free Application for Federal Financial Aid (FAFSA). The student accepts work-study by securing a job on campus. The Office of Student Financial Assistance and Information posts the available positions on our website from the job descriptions supplied by each department seeking student employees. The student will choose the job that interests him/her and contacts the department that has posted the vacancy.
STUDENT EMPLOYMENT
The University of Alaska provides employment opportunities for qualified students. Student employment will normally not exceed 20 hours per week during a semester. For information on eligibility criteria for student employment, refer to the University of Alaska Board of Regents Policies and Regulations online at www.alaska.edu/bor/contents/p9.xml.

CAREER SERVICES CENTER (CSC)
(907) 786-4513
HotLine (907) 786-4545
www.uaa.alaska.edu/careerservices
Students seeking employment off-campus can find opportunities through the Career Services Center (CSC). Government, corporate, and private sector employers contact the CSC daily to post job opportunities. Student internships may also be obtained through CSC. Through its Student Internship Services, the CSC provides qualified students the opportunity to earn credit in their major while gaining work experience in a paid position. This service provides guidance to students through developed learning objectives and faculty participation.

HUMAN RESOURCE SERVICES (HRS)
(907) 786-4608
www.uakjobs.com
HRS advertises full-time, part-time, regular, term and temporary positions at UAA. A listing of temporary student positions is also available at this office.

Applicants needing reasonable accommodations to participate in the application or interview process should contact the recruitment manager in HRS.

GRADUATE ASSISTANTSHIPS
Minimum qualifications for graduate assistantships are a baccalaureate degree from a college or university of recognized standing with a grade point average of at least 3.00 (B) and formal admission to a UAA graduate program. Foreign students whose native language is not English must score at least 600 overall on the Test of English as a Foreign Language (TOEFL) and at least 190 on the Test of Spoken English.

Graduate assistants are assigned responsibilities requiring approximately 20 hours per week. They receive stipends of varying amounts. Semester tuition waivers may also be available based on full-time (9 credits) attendance. Graduate assistantships are awarded in spring for the upcoming academic year. For additional information and applications, contact the appropriate dean's office.

VETERANS ASSISTANCE
(907) 786-1586
www.uaa.alaska.edu/financialaid/vets.cfm
The University of Alaska Anchorage is approved to provide training to veterans, service members, and eligible dependents of veterans whose death or permanent and total disability is service connected. Department of Veterans Affairs (DVA) benefits approved for UAA include the Montgomery G.I. Bill, Veterans Educational Assistance Program, Dependent's Educational Assistance Program, and Vocational Rehabilitation. Qualified persons who plan to use the Department of Veterans Affairs Educational benefits must contact the UAA Veterans Affairs Office in the Office of Student Financial Assistance and Information, preferably 60 to 90 days before the term begins. They can provide necessary forms and current benefit information.

Students using DVA educational benefits must apply for admission to a degree or certificate program at UAA. In accordance with federal regulations, UAA must report this information to the VA, along with information regarding students' enrollment, grades, and academic progress.

ADDS, DROPS, AND OTHER CHANGES
Veteran students must inform the Veterans Affairs Office whenever they add or drop courses, withdraw from the university, change address or dependents, or make other status changes. Students who drop courses or withdraw may be required to reimburse the DVA.

ADMISSION TO UAA
All veteran students receiving DVA benefits must be officially admitted to a degree program. Contact the Office of Admissions for information on requirements.

SATISFACTORY ACADEMIC PROGRESS
Veteran students must maintain satisfactory academic progress according to university policy while they are receiving benefits. Failure to do so is reported to the DVA and may end educational benefits.

TRANSCRIPTS FROM PREVIOUS COLLEGES OR UNIVERSITIES
Veteran students with previous college or university experience must have official transcripts on file with the university. Each student must request these transcripts from each previous institution when applying for admission to UAA. The Department of Veterans Affairs may withhold benefits until this requirement is satisfied.
Student Freedoms, Rights & Responsibilities

- Freedom of Expression
- Freedom of Access
- Freedom of Association
- Freedom From Unreasonable Search & Seizure
- Student Participation in Institutional Government
- University Student Educational Records Policy (FERPA)
- Academic Rights of Students
- Academic Honesty
- Student Code of Conduct
- University Student Judicial Review Procedures
- Sex Offenses Policy
- Student Dispute/Complaint Resolution Process
- Academic Dispute Resolution Procedure
- Communications via E-mail
- Computer Use & Software Copyright Policy
- Copyright & Intellectual Property
STUDENT FREEDOMS, RIGHTS, AND RESPONSIBILITIES

The role of UAA is to encourage people of all ages to develop their skills and talents differently according to their individual abilities and interests, so that collectively they contribute to the continuum of democracy. University policies, procedures, and regulations are formulated to guarantee each student's freedom to learn, and to protect the rights of others.

The concept of rights and freedoms, no matter how basic or widely accepted, carries with it corresponding responsibilities. Students, as well as other members of the university community, enjoy the same constitutional and civil rights guaranteed all citizens. At the same time, they are subject to the laws of the nation, the State of Alaska, and the local community. All members of the university community have a responsibility to protect and maintain an academic climate in which the freedom to learn can be enjoyed by all. To this end, certain basic regulations and policies have been developed to govern the behavior of students as members of the university community.

Violations of the Student Code of Conduct regulations are handled through the Dean of Students Office. Violations of federal, state, and/or local laws make a student subject to civil and/or criminal action in addition to disciplinary action by the university. Each student is responsible for knowing UAA policies, procedures, and deadlines. Policies and regulations may be found in the university catalog, the Fact Finder/Student Handbook, and in the Dean of Students Office, located in the Student Union, Room 204. Students may also obtain a copy of University of Alaska Board of Regents’ Policies and University Regulations online at www.alaska.edu/bor/policy-regulations.

FREEDOM OF SPEECH

The rights of free speech and peaceable assembly are fundamental to the democratic process. The university supports the rights of students of the university community to express their views and opinions on actions or ideas, to associate freely with others, and to assemble peacefully.

Whether expressing themselves as individuals or in organized groups, members of the university community are expected to conduct themselves responsibly, according to law, and to respect the basic educational goals of the university. Accordingly, the university insists that free expression not violate the rights of others. Disruption of the educational processes and functions of the university or violation of law would constitute such a violation.

FREEDOM OF ACCESS

Within the limits of its resources, the University of Alaska Anchorage shall be open to all applicants who are qualified according to current enrollment and admission requirements. The University of Alaska Anchorage does not discriminate on the basis of race, color, religion, national origin, sex, age, veteran status, physical or mental disability, marital status, pregnancy, or parenthood in any of its policies, practices, or procedures. This includes, but is not limited to, admissions, employment, financial aid, and educational services, programs, and activities.

FREEDOM OF ASSOCIATION

Students are free to associate to promote their common interests. They have the right to seek through official procedures establishment of organizations, so long as they are not in conflict with the educational purposes of the university. Students have the right to affiliate with officially registered campus organizations of their choice, within the membership requirements of those organizations.

FREEDOM FROM UNREASONABLE SEARCH/SEIZURE

Students shall be free from unreasonable search and/or seizure regarding their person and their personal property. If a situation should occur in which a student is arrested by university police officers, that student has the right to remain silent, the right to be free of coercion, and the right to be advised of these rights.

STUDENT PARTICIPATION IN INSTITUTIONAL GOVERNMENT

Students shall be free, individually and collectively, to express their views on issues of institutional policy and on matters of general interest to the student body. The student body shall have clearly defined means to participate in the formulation and application of institutional policy affecting academic and student affairs.

UNIVERSITY STUDENT EDUCATIONAL RECORDS POLICY (FERPA)

The Family Educational Rights and Privacy Act (FERPA) of 1974, as amended, was designated to protect the privacy of education records, to establish the right of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings.

FERPA affords students certain rights with respect to their education records. They are:

1. The right to inspect and review the student's education records within 45 days of the day the school receives a request for access. Students should submit a written (letter or fax) request to the Office of the Registrar that identifies the record(s) they wish to inspect. The registrar will make arrangements for access and notify the student of the time and place where records may be inspected. If the records are not maintained by the Office of the Registrar, registrar-designated staff will refer the student to the appropriate personnel or office to access the record.

2. The right to request the amendment of a record that they believe is inaccurate or misleading. Students may ask the university to amend the student's education records if he/she believes they are inaccurate or misleading. If the university decides not to amend the record as requested by the student, the university will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. If the university denies the amendment request after the hearing, the student is given the right to insert a statement in the education record.
The following information is designated as directory information by UAA:

a. Names of students
b. Dates of attendance at UAA
c. Program/major field(s) of study
d. Degrees and certificates received including dates
e. Participation in officially recognized university activities
f. Academic and co-curricular awards, honors, and scholarships received and dates received
g. Weight and height of students on athletic teams
h. Students’ electronic mail addresses
i. Hometown, city and state

In addition, UAA is required by federal law (The Solomon Amendment) to provide student directory information (name, address, telephone listing, date and place of birth, level of education, academic major, degrees received, the educational institution in which the student most recently was enrolled) to United States Military Recruiting and Reserve Officer Training Corps personnel upon their request unless the student has submitted a non-disclosure request according to UAA procedures.

Students may inform the Office of the Registrar that he/she does not give permission for the university to release his/her directory information. A written and signed request made by the student to not release his/her directory information must be given to the registrar within two weeks of the start of the academic term. The requests for non-disclosure are valid until a subsequent written request to release directory information is received.

Students have the right to file a complaint with the U.S. Department of Education concerning alleged failures by the university to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5920

A complete copy of the UAA procedures on the application of FERPA, including procedures for challenging the content of one’s records, is available in Enrollment Management. Links to the University of Alaska Board of Regents’ Policy and University Regulation (09.04.00) regarding education records are on the website: http://info.alaska.edu/bor/policy/policy.xml.

**ACADEMIC RIGHTS OF STUDENTS**

The university has the responsibility of providing a program of high-quality education in keeping with its financial resources; students have protection through campus-specific procedures against arbitrary or capricious academic evaluation. Student performance shall be evaluated solely on an academic basis, not on opinions or conduct in matters unrelated to academic standards. Students are responsible for the proper completion of their academic program, for familiarity with all requirements of the university catalog, and for maintaining an acceptable grade average for degree requirements. Students have the right to be informed at the beginning of each term of the nature of the course, course expectations, evaluation standards, and the grading system.

**ACADEMIC HONESTY**

Academic integrity is a basic principle, which requires that students take credit only for ideas and efforts that are their own. Cheating, plagiarism, and other forms of academic dishonesty are defined as the submission of materials in assignments, exams, or other academic work that is based on sources prohibited by the faculty member. Substantial portions of academic work that a student has submitted for a course may not be resubmitted for credit in another course without the knowledge and advance permission of the instructor. Academic dishonesty is further defined below in the Student Code of Conduct. In addition to any adverse academic action, which may result from engaging in academically dishonest behavior, the university specifically reserves the right to address and sanction the conduct involved through the student judicial review procedures outlined in the UAA Fact Finder/Student Handbook.

**STUDENT CODE OF CONDUCT**

As with all members of the university community, the university requires students to conduct themselves honestly and responsibly, and to respect the rights of others. Conduct that unreasonably interferes with the learning environment or that violates the rights of others is prohibited by the standards and guidelines collectively described as the Student Code of Conduct (the Code). Students and student organizations will be responsible for ensuring that they and their guests comply with the Code while on property owned or controlled by the university or at activities authorized by the university.

Violations of the Code, which occur on property owned or controlled by the university, or at activities authorized by the university, are subject to university judicial review and disciplinary action by the university. Student behavior which, were it to occur on property owned or controlled by the university or at activities authorized by the university, would constitute a Code violation is subject to disciplinary action when the university determines that the behavior would likely have an adverse impact on the health or safety of members of the university community, regardless of where the behavior occurs.

Students who are charged with violations of local, state, or federal laws may be subject to disciplinary action by the university if the offenses are also violations of the Code. University judicial procedures and disciplinary actions are independent of and may precede, follow, or take place simultaneously with criminal proceedings. University actions will not be subject to challenge on the grounds that criminal charges involving the same incident have been dismissed or reduced.

A student who has been charged with a violation of the Code and refuses to participate in the judicial process, or fails to complete disciplinary sanctions as assigned by the university, may be prohibited from re/enrolling in courses until the charges or sanctions are resolved to the satisfaction of the university.

Disciplinary action may be initiated by the university and disciplinary sanctions imposed against any student or student organization found responsible for committing, attempting to commit, or intentionally assisting in the commission of any of the following categories of conduct prohibited by the Code.
The examples provided in this section of actions constituting forms of conduct prohibited by the Code are not intended to define prohibited conduct in exhaustive terms, but rather to set forth examples to serve as guidelines for acceptable and unacceptable behavior. (R09.02.020)

1. Cheating, Plagiarism, or Other Forms of Academic Dishonesty:
   a. using material sources not authorized by the faculty member during an examination or assignment;
   b. utilizing devices that are not authorized by the faculty member during an examination or assignment;
   c. providing assistance to another student or receiving assistance from another student during an examination or assignment in a manner not authorized by the faculty member;
   d. presenting as their own the ideas or works of another person without proper acknowledgment of sources;
   e. knowingly permitting their works to be submitted by another person without the faculty member’s permission;
   f. acting as a substitute or utilizing a substitute in any examination or assignment;
   g. fabricating data in support of laboratory or field work;
   h. possessing, buying, selling, obtaining, or using a copy of any material intended to be used as an instrument of examination or in an assignment in advance of its administration;
   i. altering grade records of their own or another student’s work; or
   j. offering a monetary payment or other remuneration in exchange for a grade.

2. Forgery, Falsification, Alteration, or Misuse of Documents, Funds or Property:
   a. forgery, falsification, or alteration of records or deliberate misrepresentation of facts on university forms and documents or to any university official or before a university judicial hearing board;
   b. misuse or unauthorized use of university identification cards, keys, funds, property, equipment, supplies or resources;
   c. falsely representing oneself as an agent of the university, incurring debts or entering into contracts on behalf of the university; or
   d. trespassing or unauthorized entry into, unauthorized presence on, or use of property which is owned or controlled by the university.

3. Damage or Destruction of Property:
   a. damage or destruction to property owned or controlled by the university; or
   b. damage or destruction of property not owned or controlled by the university if the action constitutes a violation of the Code, e.g.,
      (i) the action occurred during an event authorized by the university;
      (ii) the student was a representative of the university, such as an athlete, and the action occurred while traveling to or from an event authorized by the university; or
      (iii) the property not owned or controlled by the university was located on university property.

4. Theft of Property or Services:
   a. theft or unauthorized possession or removal of university property or the property of any university member or guest that is located on property owned or controlled by the university; or
   b. theft or unauthorized use of university services or unauthorized presence at university activities without appropriate payment for admission.

5. Harassment:
   a. physical or verbal abuse;
   b. sexual harassment;
   c. intimidation; or
   d. other conduct, including hazing, which unreasonably interferes with or creates a hostile or offensive learning, living, or working environment.

6. Endangerment, Assault, or Infliction of Physical Harm:
   a. physical assault;
   b. sexual misconduct and assault;
   c. terrorist threats;
   d. hazing, coercion, or other activity that endangers or threatens the health or safety of any person, including oneself; or
   e. conduct which causes personal injury.

7. Disruptive or Obstructive Actions:
   a. obstructing or disrupting teaching, research, administration, disciplinary proceedings, or other activities authorized by the university;
   b. interfering with the freedom of movement of any member or guest of the university to enter, use or leave any university facility, service or activity; or
   c. taunting or physically harassing wildlife or otherwise creating an unsafe or hazardous environment involving wildlife on property owned or controlled by the university.

8. Misuse of Firearms, Explosives, Weapons, Dangerous Devices, or Dangerous Chemicals:
   a. unauthorized use, possession, or sale of these items on property owned or controlled by the university, except as expressly permitted by law, Regents’ Policy, University Regulation, or UAA rules and procedures.

9. Failure to Comply with University Directives:
   a. failure to comply with the directions of law enforcement officers or university officials acting in the performance of their duties;
   b. failure to identify oneself to university officials when requested; or
   c. failure to comply with disciplinary sanctions imposed by the university.

10. Misuse of Alcohol or Other Intoxicants or Drugs:
    a. use, possession, manufacture, distribution, or being under the influence of any narcotic, controlled substance, or intoxicant on property owned or controlled by the university or at activities authorized by the university, except as expressly permitted by law, Regents’ Policy, University Regulation, or UAA rules and procedures; or
    b. use, possession, manufacture, distribution, or being under the influence of any narcotic, controlled substance, or intoxicant on property owned or controlled by the university, except as expressly permitted by law, Regents’ Policy, University Regulation, or UAA rules and procedures.

11. Violation of Regents’ Policy, university regulation, or UAA rules and procedures.

12. Any Other Actions That Result in Unreasonable Interference with the Learning Environment or the Rights of Others.

**UNIVERSITY STUDENT JUDICIAL REVIEW PROCEDURE**

[www.uaa.alaska.edu/deanofstudents/studentjudicialservices](http://www.uaa.alaska.edu/deanofstudents/studentjudicialservices)

A judicial procedure is a review undertaken by the university to establish whether there is substantial information to determine if it is more likely than not that a student violated the Code. A complete copy of the University Student Judicial Review Procedures can be found in the [UAA Fact Finder/Student Handbook](http://www.uaa.alaska.edu/studentaffairs/fact-finder.cfm).
SEX OFFENSES POLICY
www.uaa.alaska.edu/studentaffairs/Fact-Finder.cfm
It is the policy of UAA that the sexual assault of one member of the academic community by another will not be tolerated. This policy applies to all members of the campus community, students, faculty, and staff. A complete copy of the Sex Offenses Policy can be found in the UAA Fact Finder/Student Handbook.

STUDENT DISPUTE/COMPLAINT RESOLUTION PROCESS
www.uaa.alaska.edu/studentaffairs/Fact-Finder.cfm
University students have a variety of procedures available to them to process complaints or disputes about actions or inaction by members of the university community that adversely affect them. The process used will depend on the nature of the complaint. A complete copy of the Student Dispute/Complaint Resolution Process can be found in the UAA Fact Finder/Student Handbook.

ACADEMIC DISPUTE RESOLUTION PROCEDURE
www.uaa.alaska.edu/studentaffairs/Fact-Finder.cfm
Challenges to academic decisions or actions of the faculty or academic administration will be reviewed according to the procedure that implements the UA Board of Regents Policy 09.03.02 and its University Regulation on Resolution of Disputes Regarding Academic Decisions or Actions. Appropriate issues for the procedure include such things as considerations of alleged grading error or arbitrary and capricious grading for a final grade assignment. Grades assigned prior to the final grade received in a course are not subject to review under this procedure. Only the course instructor or an academic decision review committee may authorize a change in the assignment of a final grade. A complete copy of the Academic Dispute Resolution Procedure can be found in the UAA Fact Finder/Student Handbook.

COMMUNICATIONS VIA E-MAIL
UAA uses e-mail and the MyUA web portal to communicate with students on many important matters. The university automatically assigns each student an official UAA e-mail account at the time of admission to the university for certificate/degree seeking students and at the time of registration for all other students. Students are responsible for knowing and, when appropriate, acting on the contents of all university communications sent to their official UAA e-mail accounts. To receive university communication at a different e-mail address, students may forward e-mail from their assigned UAA accounts to any valid third party e-mail address of their choice that accepts forwarded e-mail. Go to UAA’s Identity Manager (http://username.uaa.alaska.edu), log in and set your forwarding e-mail address under the “Change Other Account Attributes” link. Contact the UAA IT Call Center for assistance by telephone at (907) 786-4646 or toll free (877) 633-3888 or by e-mail at callcenter@uaa.alaska.edu if you need assistance.

COMPUTER USE AND SOFTWARE COPYRIGHT POLICY
http://technology.uaa.alaska.edu
All faculty, staff, and students who use any computer at the university are responsible for using computer resources in an ethical and legal manner. For detailed information see the Acceptable Use Policy on the ITS website: http://technology.uaa.alaska.edu/admin/PoliciesAndProcedures.

COPYRIGHT AND INTELLECTUAL PROPERTY
http://info.alaska.edu/active/level2/copyright.html
The University of Alaska provides a network and computing infrastructure to promote the basic missions of the university in learning, research, and service by facilitating communication, collaboration, and access to information resources. Users of this infrastructure must be mindful of and respect ownership of intellectual property and copyrighted information to which this infrastructure can provide access.

Copyright and intellectual property rights may attach to files of any media type including software, texts, databases, images, video, music, and other audio files. Abuse of computing or network technologies to copy or distribute materials in violation of copyright, license, or intellectual property rights undermines the free exchange of ideas and access to information resources central to the university’s mission and is expressly forbidden by university policy and regulation.

The University of Alaska aggressively investigates specific claims of such abuse including abuses using personally owned computers connected to the university’s network. Verified abuses may lead to immediate suspension of access to university networks and/or computing resources, subject violators to possible university disciplinary action, and expose them to fines, other civil penalties, and criminal prosecution by copyright owners.
Academic Support
Advising & Testing Center
AHAINA Student Programs
Career Services Center (CSC)
College Preparatory & Development Studies (CPDS)
Disability Support Services (DSS)
Learning Communities
Learning Resource Center (LRC)
Labs & Tutoring
Library Support
Native Student Services (NSS)
Office of Undergraduate Research & Scholarship (OURS)
Pre-Professional Health Careers Advising
Student Support Services (SSS)
Testing & Assessment
TRIO Programs
ACADEMIC SUPPORT

ACADEMIC ADVISING

Academic advising assists students in developing and monitoring academic plans consistent with educational, career and life goals.

Admitted students with declared majors are assigned faculty advisors within the academic department offering the major. Students admitted as “undeclared” baccalaureate students and those admitted to the Associate of Arts “general program” are assigned to the Advising and Testing Center.

Academic advising is handled differently by each college/school. The following list provides a contact number for the advising coordinator of each unit.

COLLEGE/SCHOOL ADVISING

| College of Arts & Sciences | (907) 786-1357 |
| College Business and Public Policy | (907) 786-4100 |
| College of Education | (907) 786-4401 |
| College of Health and Social Welfare | (907) 786-4405 |
| School of Nursing | (907) 786-4561 |
| Community and Technical College | (907) 786-6480 |
| School of Engineering | (907) 786-1900 |
| University Honors College | (907) 786-1057 |

Advising is also available at the community campuses:

- Kodiak College, Student Services | (907) 486-1214 |
- Mat-Su College, Student Services | (907) 745-9762 |
- Kenai Peninsula College | toll free (877) 262-0330 |
- Anchorage Extension Site | (907) 786-6421 |
- Kachemak Bay Campus | (907) 235-7743 |
- Kenai River Campus | (907) 262-0330 |
- Resurrection Bay Extension Site | (907) 224-2285 |

ADVISING AND TESTING CENTER

(907) 786-4500

www.uaa.alaska.edu/advising-testing

ayfront@uaa.alaska.edu

The Advising and Testing Center is staffed with student development professionals to assist students with a wide range of academic planning activities. In addition, the center provides placement testing for students new to UAA. Advising services focus on new students uncertain about their academic focus, degree-seeking students with undeclared majors, Associate of Arts degree-seeking students, and all students enrolled in non-degree status. Staff members assess students’ academic readiness for college-level courses, guide students in the selection of required courses, and help students explore UAA degree programs, majors and related careers. Staff members also connect students with other campus resources to maximize student access to programs and activities designed to promote student success and engagement with UAA. Maintaining regular contact with academic advisors during all phases of the college career is likely to enhance the student’s college experience and will help students attain their educational goals in a timely manner.

AHAINA STUDENT PROGRAMS

(907) 786-4070

www.uaa.alaska.edu/multicultural

The name AHAINA is an acronym for African-American, Hispanic, Asian, International and Native American. AHAINA’s motto is “Goals, Grades and Graduation.” AHAINA Student Programs is located in Rasmuson Hall (RH), Room 106. We provide resources, academic assistance and intervention to students of diverse ethnicities. Our objective is to assist AHAINA students in successfully achieving their academic goals. This is accomplished by providing services that promote academic achievement, affirm cultural differences and enhance student retention. Our Peer Mentor program aids new AHAINA students in keeping up with the demands of college academics while getting acclimated to college life. Peer mentors are UAA students whose experiences along with specialized training provide a support network of information and resources for new students. Other services include academic success workshops and seminars, cultural programs, tuition waivers, computer lab, study area, scholarship/internship information and academic recognition programs.

CAREER SERVICES CENTER (CSC)

(907) 786-4513

www.uaa.alaska.edu/careerservices

CSC provides a number of excellent career-related services and resources. The center houses over 1,000 career-related books in its lending library, covering subjects such as how to write a resume, interviewing skills, where jobs can be found, and how to prepare for your career. Students and alumni can register online to review hundreds of current job and career opportunities, post their resumes, and establish an online credential file for employers to review. Other resources include a mentor program, videos, college catalogs, and a variety of literature and handouts to assist students on a career path or job search. CSC also provides individual and group career advising as well as academic internship programs, A Day in the Life Program, a videotaped mock interview program, resume assistance, workshops, and campus and community presentations. The center also hosts many well-known local and national employers who visit the campus for recruiting.

COLLEGE PREPARATORY AND DEVELOPMENTAL STUDIES (CPDS)

(907) 786-6856

This department offers academic support to all UAA students through specific courses, programs, labs, and tutoring. Students who need to improve their ESL, mathematics, reading, writing, and study skills can take UAA-approved placement test through the Advising and Testing Center (786-4500), meet with a placement advisor to discuss their test results and determine which courses and/or programs can help them be successful in reaching their academic and personal goals.
**Disability Support Services (DSS)**

(907) 786-4530 (voice), (907) 786-4536 (TTY)

[www.uaa.alaska.edu/dss](http://www.uaa.alaska.edu/dss)

aydds@uaa.alaska.edu

DSS coordinates academic support services for students who experience disabilities. To access support services, students should contact DSS and provide current disability documentation. Services include, but are not limited to, American Sign Language interpreters, note-taking assistance, testing adjustments, ergonomic furniture, textbooks in alternate formats (e.g., large print, audio, e-text, etc.), and access to adaptive technology. DSS also serves as a resource for the community, facilitating workshops and awareness-building events, and maintaining an extensive lending library.

**Learning Communities**

**Alaska Native Science and Engineering Program (ANSEP)**

(907) 786-1853

[http://ansep.uaa.alaska.edu](http://ansep.uaa.alaska.edu)

ANSEP is a comprehensive suite of outreach, recruitment, retention, and placement strategies designed to help students fulfill their potential in college; sustain their interest in science, technology, engineering, and mathematics (STEM); and develop an interest in graduate study.

ANSEP focuses on undergraduates who have shown an interest or aptitude for mathematics and science fields in high school, when they entered college, or during their college career. The students form an academic learning community, many living together on campus in the Ayleska Community and co-enrolling in classes, so that wherever possible they are part of a shared experience.

**Alaska Natives into Psychology (ANPsych)**

(907) 786-6131

ANPsych’s mission is to increase the number of Alaska Natives and American Indian psychologists, and other mental health professionals, working in the field and to support Native communities in achieving their goals, building on wellness in their villages. The program provides financial, academic, and social support to students who wish to continue their education at the baccalaureate and graduate levels. Graduate and undergraduate psychology students have the opportunity to receive funding. Academic and social support is also available. ANPsych graduate students conduct “Talking Circles” and provide tutoring for psychology undergraduate students.

**Recruitment and Retention of Alaska Natives into Nursing (RRANN Program)**

(907) 786-6978 or toll-free 1-877-891-4321

[http://nursing.uaa.alaska.edu/rrann](http://nursing.uaa.alaska.edu/rrann)

The UAA School of Nursing was awarded a grant from the Department of Health and Human Services, Division of Nursing, to recruit and assist Alaska Native and American Indian students in their nursing education endeavors. RRANN and UAA are committed to increasing the number of Alaska Natives and American Indians graduating with an Associate of Applied Science or Bachelor of Science degree from UAA. The RRANN program is dedicated to encouraging personal growth within an academic setting that recognizes individual strengths and cultural diversity. Students are encouraged to live together in the Nightingale Nursing Community in West Hall.

**Smart Start Program**

(907) 786-6856

Smart Start offers a 13-credit, semester-length program to strengthen basic mathematics, reading, writing, and study skills. Participants meet 8:30 a.m. to 12:30 p.m. Monday through Friday in the same classroom, where they meet with their teachers and tutors. Students receive individualized attention and tutoring services both inside and outside the classroom.

Interested students must take a UAA-approved placement test and speak to a College Preparatory & Developmental Studies placement advisor (786-6856) to see if Smart Start is right for them. For information on available placement testing times and locations, call the Advising and Testing Center (786-4500). Smart Start is offered during the fall semesters at Kodiak College. Call (907) 486-1253 for information about Smart Start at Kodiak College.

**Teaching and Learning Community**

(907) 786-4401

The mission of the College of Education is to prepare educators and support the lifelong learning of professionals, to embrace diversity, and to be intellectually and ethically strong, resilient, and passionate in their work with Alaska’s learners, families, and communities. By promoting a vibrant, on-campus community of learners, the college facilitates an engaging environment that connects students to each other, faculty, and the UAA community at large. Education students residing on campus may choose to live in the Teaching & Learning Community wing in East Hall surrounded by peers who are also exploring careers in education. This residential community supports the academic and social success of students through special events, tutoring, study groups, and volunteer opportunities.

**University Honors College**

(907) 786-1086

[www.uaa.alaska.edu/honors](http://www.uaa.alaska.edu/honors)

The University Honors College provides its students with an intense intellectual experience, and offers them opportunities to develop an integrative perspective that extends beyond the confines of individual majors and disciplines. The college offers interdisciplinary courses, academic advising and mentoring, leadership and scholarship opportunities, smaller classes and guided individual research, community involvement, and interaction with Honors peers committed to academic excellence. (See Chapter 10, Undergraduate Programs, for further information.) Honors students may live in the Honors Community in East Hall.

**Learning Resources Center (LRC)**

(907) 786-6828

[www.uaa.alaska.edu/ctc/lrc](http://www.uaa.alaska.edu/ctc/lrc)

The LRC offers a friendly place for students to read, study, work on supplemental materials, or get extra help for a class. The LRC houses a large quiet study area, an open area that is available for individuals and small work groups, a language laboratory, a mathematics laboratory, a computer-assisted writing laboratory, an open-access computer laboratory, and audio-visual study areas. The Instructor Reserve area maintains a collection of supplemental course materials for student use. The LRC provides激光 printers, copy machines, laminating equipment, and document binding equipment to assist students.
<table>
<thead>
<tr>
<th><strong>TITLE</strong></th>
<th><strong>SERVICES</strong></th>
<th><strong>ELIGIBLE STUDENTS</strong></th>
<th><strong>LOCATION</strong></th>
<th><strong>COST</strong></th>
<th><strong>RESOURCES AVAILABLE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Assisted Writing Lab (CAWL) 786-6828</td>
<td>Online tutoring for written assignments via SLED</td>
<td>All students, PRPE &amp; ESL given priority</td>
<td>Sally Monserud Hall (SMH) Room 119</td>
<td>None</td>
<td>Computer lab</td>
</tr>
<tr>
<td><strong>Learning Resources Center (LRC) &amp; College Preparatory and Developmental Studies (CPDS)</strong></td>
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<tr>
<td>Educational Opportunity Center (EOC) 274-5522</td>
<td>Tutorial assistance</td>
<td>Low-income, first-generation college students</td>
<td>500 L Street, Suite 501 (will be moving to 4500 Diplomacy, Suite 118 in October, 2009)</td>
<td>None</td>
<td>Computer lab</td>
</tr>
<tr>
<td>Live Homework Help</td>
<td>Online tutoring for basic college courses in math, sciences, social sciences, and English</td>
<td>All students in basic introductory courses</td>
<td>Online at <a href="http://sled.alaska.edu/homework.html">http://sled.alaska.edu/homework.html</a></td>
<td>No cost to student. It is part of SLED, Alaska’s Virtual Library program.</td>
<td>Service is available 1-9pm, seven days per week.</td>
</tr>
<tr>
<td>Learning Resources Center (LRC) 786-6828</td>
<td>CAWL, Math Guided Studies Lab, language lab, open use computer lab. Coordinates athletic and individual tutoring. Preparatory and ESL tutoring</td>
<td>All students</td>
<td>Sally Monserud Hall (SMH)</td>
<td>No cost to students for most services. Private tutoring costs vary.</td>
<td>Tutoring, computer labs, instructional materials</td>
</tr>
<tr>
<td><strong>Mathematics Guided Studies Lab 786-6828</strong></td>
<td>Tutoring for MATH A054, A055, or A105. Testing for Guided Studies Mathematics students</td>
<td>All students in MATH courses</td>
<td>Sally Monserud Hall (SMH) Room 120</td>
<td>None</td>
<td>Computers, mathematics tutorial materials, My Math Lab software</td>
</tr>
<tr>
<td><strong>Learning Resources Center (LRC) &amp; College Preparatory and Developmental Studies (CPDS)</strong></td>
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<tr>
<td>Mathematical Sciences Math Lab 786-1744</td>
<td>Tutoring for preparatory and lower division math courses and lower division statistics courses</td>
<td>All students enrolled in on-campus MATH or STAT courses who have paid lab fee</td>
<td>Social Sciences Building (SSB) Room 156</td>
<td>Lab fee</td>
<td>Computers, mathematical and statistical software</td>
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<tr>
<td><strong>Mathematical Sciences Department</strong></td>
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<tr>
<td>The Writing Center 786-6918</td>
<td>Tutoring on written assignments</td>
<td>PRPE and ESL students</td>
<td>Sally Monserud Hall (SMH) Room 118</td>
<td>Lab fee</td>
<td>Computers, style guides, dictionaries</td>
</tr>
</tbody>
</table>
LIBRARY SUPPORT
THE CONSORTIUM LIBRARY
(907) 786-1848
http://consortiumlibrary.org
The Consortium Library serves the students, faculty, and staff of the University of Alaska Anchorage and Alaska Pacific University with a recently expanded and remodeled facility. It is the major research library for Southcentral Alaska. The Consortium Library’s website provides access to a growing list of databases, indexes, full text articles, ebooks and ejournals. The website also provides access to the library’s catalog that lists the holdings for the Consortium Library as well as the Anchorage Public Library, UAA Career Services, Alaska Resources Library and Information Services (ARLIS), the UAA community campus libraries in Kodiak, Mat-Su, Kenai, Homer, and Valdez, and the Anchorage Museum. Requests for interlibrary loans and for reference services can be made online. On the library’s website there are online tutorials and a research help section. Refworks, a software tool for managing bibliographies and citations, is available to all students, faculty and staff.

The library’s onsite collection includes more than 820,450 volumes, 590,000 microform units, subscriptions to 4,880 journals and an extensive sheet music collection. The library is a selective depository for federal and state documents. It houses special collections about Alaska and the Arctic including archives and manuscripts. The library’s Health Sciences Information Services (HSIS) is located on the second floor with collections supporting nursing and allied health. The Consortium Library faculty teach two courses for credit (LS A101 and LS A211) on how to conduct library research.

NATIVE STUDENT SERVICES (NSS)
(907) 786-4000
Toll-free 1-866-786-4804
http://nss.uaa.alaska.edu
The NSS mission is to improve the retention and success of Alaska Native and Native American students in achieving their educational goals.

NSS provides educational/vocational planning, advising, career counseling, financial aid resources and guidance, scholarship and internship information, study group space, peer mentoring, leadership opportunities, community and cultural programming, educational outreach, community partnerships, campus orientation, student tours, school visits, and summer internships among other services.

NSS has a Peer Mentoring program that is designed to increase new student retention, academic success, and personal adjustment to UAA through a volunteer full-circle mentoring approach

OFFICE OF UNDERGRADUATE RESEARCH AND SCHOLARSHIP (OURS)
(907) 786-1086
www.uaa.alaska.edu/ours
The OURS fosters undergraduate research opportunities and presentation, encourages the integration of teaching and research across the campus, and links students both to local faculty and the global community of scholars.

OURS offers a variety of programs including colloquia, featured speakers and presentations. Every spring, the office hosts the Undergraduate Research and Discovery Symposium, highlighting the work of UAA undergraduates and their faculty mentors. The office also offers several award competitions to support undergraduate research and creative/artistic projects in all disciplines, including Undergraduate Research Awards, Discovery Grants, the Discovery Award, the Consortium Library Prize, sponsored travel to the Student Conference on United States Affairs, and the Parasca Science Award.

PRE-PROFESSIONAL HEALTH CAREERS ADVISING
(907) 786-1747
http://biomed.uaa.alaska.edu
UAU students interested in the health professions can complete prerequisite courses required for admission into medical, dental, veterinary, pharmacy, physician assistant, physical therapy, and other professional programs. Many academic departments support pre-health career majors, including Biological Sciences, Chemistry, and Psychology. Alaska residents interested in medicine can apply to the WWAMI Program, which is affiliated with the University of Washington School of Medicine. MEDEX Northwest is a source of physician assistant training for qualified Alaskans.

Pre-health professions students are encouraged to meet with the pre-health professions advisor to discuss prerequisites, course schedules, admissions examinations, and other topics relevant to the successful progression into a professional program.

Pre-Health Professions Advisor
Biomedical Program/WWAMI
University of Alaska Anchorage
3211 Providence Drive
Anchorage, AK 99508
(907) 786-1747

Premedical students maintain the PreMed Club, which sponsors seminars, tours, mock interviews, trial MCATs, and other activities that prepare participants for success in undergraduate work and the medical school application process. The Alaska WWAMI Program and the UAA Office of Undergraduate Research and Scholarship sponsor an annual PreMed Summit, a program designed for anyone interested in a career in medicine, especially undergraduate and high school students, but also counselors, advisors, and parents.

STUDENT SUPPORT SERVICES (SSS)
(907) 786-1380
www.uaa.alaska.edu/sss
Student Support Services (SSS) is an academic support program of the U.S. Department of Education (TRIO) that is hosted by UAA. SSS seeks to supplement student success by providing academic support services (tutorial assistance, persistence workshops, academic mentoring) to 160 eligible students per year. Students eligible for SSS services come from families earning a lower wage (by federal standards), and/or are the first in their families (first generation) to pursue a baccalaureate degree, or experience a doctor-diagnosed disability.

TESTING AND ASSESSMENT
(907) 786-4500
www.uaa.alaska.edu/advising-testing/assessment
The assessment program supports many of the testing needs of the university and also serves the community as a testing site for national tests, which are used for admission, earning college credit, and professional certification.

Placement testing is offered for admission purposes, general advising and for placement in English and preparatory mathematics classes. There is a fee for placement testing. Data from placement tests are used to improve student advising and retention. Other assessments are available to help people with career and life planning. Testing services, such as proctoring correspondence and other examinations, are also available. (See Chapter 8, Educational Delivery Methods and Nontraditional Credit, for more information.)
TRIO Programs

www.uaa.alaska.edu/trio

The TRIO programs are funded by the U.S. Department of Education and sponsored by UAA. The TRIO mission is to increase the rate at which low-income and potential first-generation college youth and adults prepare for and enter programs of postsecondary education.

**Educational Opportunity Center (EOC)**

(907) 274-5522

The EOC program provides information and assistance to adults who wish to pursue a postsecondary education. Services provided by the EOC include career planning, educational advising, college and technical school selection, school admission assistance, financial aid advising and application assistance, and federal student loan default rehabilitation.

**Educational Talent Search Program (ETS)**

(907) 274-1513

The ETS program serves sixth through 12th-grade students in eight schools in the Anchorage School District. ETS prepares students to successfully complete high school and enroll in college or a technical school. Services include educational advising, career exploration, study skills, tutoring, college planning, college tours, and more.

**Upward Bound (UB)**

(907) 274-1513

The Upward Bound program serves ninth- through 12th-grade students in three high schools in the Anchorage School District. UB, like ETS, prepares students to complete high school, but the program emphasizes academic preparation in science, math, language and literature, as well as the services listed above for ETS. UB students attend a six-week, highly challenging academic summer program on the UAA campus. Students who have graduated from secondary school and intend to enroll in college in the fall may participate in a Summer Bridging component, where they enroll and earn credit in college courses designed to aid their transition to college.
Admissions
University Admission Requirements
Academic Planning
Registration
Credit Requirements
Course Performance
Course Completion
Program Completion
Exception to University Policy for Records and Registration
ADMISSIONS

(907) 786-1480
www.uaa.alaska.edu/admissions

All students intending to register for one or more courses must apply for admission. Applications for admission are available online at www.uaa.alaska.edu/admissions or from the Office of Admissions.

UAA offers five admission options for students:

- Occupational endorsements provide specialized knowledge and skills needed in specific employment sectors.
- Certificate and associate’s degree programs emphasize technical or job-related skills in demand in the workplace and/or can be used as preparation for a bachelor’s program.
- Baccalaureate and post-baccalaureate degree programs provide a comprehensive general education along with scholarship in a major specialty.
- Graduate and post-graduate programs prepare students for deep inquiry within a chosen field of mastery or for career advancement.
- General interest and non-degree-seeking options offer students the opportunity to take classes for either personal or professional interests.

GENERAL ADMISSION INFORMATION

This chapter covers university admission requirements that apply to all undergraduate certificate, degree, and non-degree-seeking students. Individual certificate and degree programs may have additional requirements. See Chapter 10, Undergraduate Programs for specific program requirements. See Chapter 11, Post-Baccalaureate Certificate Programs, and Chapter 12, Graduate Programs, for admission requirements that apply to post-baccalaureate and graduate programs.

HOME SCHOOL APPLICANTS

High school transcripts will be accepted from applicants attending home schools registered with the State of Alaska or affiliated with a diploma-granting educational organization whose accreditation is recognized by the U.S. Department of Education. Applications for admission for other home school graduates will be reviewed if the home school graduate:

- Takes the “ability to benefit” test offered at a UAA campus testing center; or
- Takes and submits a score for the General Educational Development (GED) Test; or
- Achieves and submits an official SAT combined score of 1210 or an ACT composite score of 27; or
- Submits to the Office of Admissions an official SAT or ACT test score, home school transcripts, a three-page essay on postsecondary educational goals, and a letter requesting admission to a specific certificate or degree program.

TRANSSCRIPTS AND TEST SCORES

Associate’s or baccalaureate degree-seeking students, and students seeking undergraduate certificates of 30 credits or more must submit transcripts (and in some cases test scores) documenting their academic history and readiness for the desired level of study. Students seeking occupational endorsement certificates and non-degree-seeking students are not required to submit transcripts or test scores except as required for placement in certain courses or programs.

All required transcripts and test scores must be official documents submitted directly from the issuing high school, college, university, or testing agency to the Office of Admissions. Students may hand carry documents only if they are in original sealed envelopes from issuing institutions. The university cannot accept student copies of transcripts or test scores.

Transcripts from private high schools are recognized in the same manner as transcripts from state-supported high schools. Transcripts are acceptable only if the school is accredited through a regional accrediting agency, affiliated with an accredited high school or registered with the state. Otherwise, the student must complete the Ability to Benefit process for admission or the Home School applicant process.

Certificate- and degree-seeking students who have attended institutions outside the United States or Canada may be required to submit an official statement of educational equivalency from a recommended international credentials evaluation service. A list of evaluation services may be obtained from the Office of Admissions. Fees depend upon the agency performing the evaluation. The evaluation service will require a separate transcript and copy of the English translation. Students are expected to provide records in English for transfer credit evaluation.

All transcripts, test scores, and other supporting documents submitted for admission or transfer credit evaluation become the property of the university and are only released or copied for use within the University of Alaska system. They cannot be reissued, copied, or returned to the student.

ABILITY TO BENEFIT

Advising and Testing Center

(907) 786-4500
www.uaa.alaska.edu/advising-testing/assessment

Certificate- and degree-seeking students who are at least 18 years old but have not earned a high school diploma, GED, or at least 60 college-level semester credits, must demonstrate that they have the ability to benefit from higher education by achieving federally determined scores on an approved test administered by the Advising and Testing Center.

After taking the examination, students must meet with an advisor to review the test results and determine an appropriate entry level of instruction. The advisor must sign and return the Ability to Benefit form to the Office of Admissions before admission can be completed. Interested individuals should contact the advising center at their local campus for schedules and appointments.

ADVISING REQUIREMENTS

All students should meet with a faculty or academic advisor prior to each semester’s registration. Advising helps students clarify their goals, make suitable course selections, and understand academic expectations. New certificate- and degree-seeking students are directed to an appropriate advisor as part of the admission process. Some students may be required to meet with an advisor prior to registration. (See Chapter 6, Advising and Academic Support, for further information.)
UNIVERSITY ADMISSION REQUIREMENTS
UNDERGRADUATE PROGRAMS

There are three levels of undergraduate admission.
1. Admission to occupational endorsement certificates
2. Admission to undergraduate certificates or associate’s degrees
3. Admission to baccalaureate and post-baccalaureate degrees

ADMISSION TO OCCUPATIONAL ENDORSEMENT CERTIFICATES

To qualify for admission to an occupational endorsement certificate program a student must either:
1. Have earned a high school diploma, GED, or at least 60 college-level semester credits;
2. Be 18 years of age or older and have participated in UAA’s Ability to Benefit process as described in this chapter.

Some occupational endorsement programs have additional admission requirements, selective admission criteria or limited space. (See Chapter 10, Undergraduate Programs, for specific information.)

Occupational endorsement certificate-seeking students must submit a UAA application for admission indicating their intended educational program and their level of academic preparation.

Additional admission requirements will depend on the intended program.

ADMISSION TO UNDERGRADUATE CERTIFICATE AND ASSOCIATE’S DEGREE PROGRAMS

To qualify for admission to certificate or associate’s degree programs a student must either:
1. Have earned a high school diploma, GED, or at least 60 college-level semester credits;
2. Be 18 years of age or older and have participated in UAA’s Ability to Benefit process as described in this chapter.

Some associate’s degree programs have additional admission requirements, selective admission criteria or limited space. (See Chapter 10, Undergraduate Programs, for specific information.)

FRESHMEN (STUDENTS WITH FEWER THAN 30 COLLEGE-LEVEL SEMESTER CREDITS)

Students still attending high school must submit a partial transcript at the time of application. A final transcript or official GED scores confirming the graduation date may be required for some programs.

Students who previously attended regionally accredited colleges or universities (including those outside of the United States) are required to submit official final transcripts from those institutions. (Exception: Students do not need to request transcripts from any University of Alaska campus.)

TRANSFER STUDENTS (UNDERGRADUATES WITH AT LEAST 30 COLLEGE-LEVEL SEMESTER CREDITS)

Undergraduate certificate- and degree-seeking applicants with 30 or more college-level semester credits must submit official transcripts from all regionally accredited colleges and universities and all institutions attended outside the United States. (Exception: Students do not need to request transcripts from any University of Alaska campus.)

Students who wish to transfer college-level course work from institutions outside the United States or Canada must submit official transcripts and English translations as well as an official statement of educational equivalency from a recommended international credentials evaluation service. A list of evaluation services may be obtained from the Office of Admissions. Fees depend upon the agency performing the evaluation. The evaluation service will require a separate transcript and copy of the English translation.

INTERNATIONAL UNDERGRADUATE STUDENTS
Office of Admissions
(907) 786-1480

International students who intend to reside in the U.S. for the purpose of pursuing a certificate or degree as F-1 visa students and need a Form I-20 Certificate of Eligibility for Nonimmigrant F-1 Student Status must meet university and degree program admission requirements and submit the following:
1. Official TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing System) scores. See the UAA website for minimum required scores.
2. A statement of financial support for the anticipated period of study and evidence of availability of funds such as a bank statement.
3. English translations of all required documents.

International students in F-1 visa status must be formally admitted, full-time degree-seeking students. Health insurance is also mandatory. Contact the international student advisor in the Office of Admissions for details.

ADMISSION TO BACCALAUREATE PROGRAMS

To qualify for admission to baccalaureate programs, a student must satisfy at least one of the following:
1. Graduation from high school with a GPA of at least 2.50, and completion of either the SAT, ACT, or an approved test; or
2. Completion of high school graduation requirements; or
3. Completion of at least 30 college-level semester credits with a GPA of at least 2.00 and a high school diploma, GED, or completion of UAA’s Ability to Benefit process as described in this chapter; or
4. Completion of at least 60 college-level semester credits with a GPA of at least 2.00.

Students in the following categories may be admitted to certain baccalaureate programs with advising as a requirement:
• High school graduates with a GPA of 2.00 through 2.49; or
• Transfer students with a collegiate GPA of 1.75 through 1.99.

Additional criteria apply to students who have been removed from baccalaureate degree-seeking status at UAA. See the Reinstatement policy under the Academic Standing section of this chapter.

Some baccalaureate programs have additional or more selective admission requirements. (See Chapter 10, Undergraduate Programs, for specific program details and information.)

FRESHMEN (STUDENTS WITH FEWER THAN 30 COLLEGE-LEVEL SEMESTER CREDITS)

Baccalaureate degree-seeking freshmen with fewer than 30 college-level semester credits must submit:
1. Final official high school transcripts showing graduation date or official GED scores. Students still attending high school must submit both a partial transcript at the time of application and a final transcript after graduation that confirms the graduation date.
2. Official copies of ACT, SAT, or approved test scores. (Test scores posted on official high school transcripts are acceptable.)
3. Official transcripts from all regionally accredited colleges and universities and all institutions attended outside the United States. (Exception: Students do not need to request transcripts from any University of Alaska campus.)
Freshmen who have not earned a high school diploma or GED are not eligible for admission to bachelor’s degree programs. They may apply to certificate and associate's degree programs only, and must complete the Ability to Benefit process as described in this chapter.

**TRANSFER STUDENTS (UNDERGRADUATES WITH AT LEAST 30 COLLEGE-LEVEL SEMESTER CREDITS)**

Undergraduate baccalaureate degree-seeking applicants with 30 or more college-level semester credits must submit official transcripts from all regionally accredited colleges and universities and all institutions attended outside the United States. (Exception: Students do not need to request transcripts from any University of Alaska campus.)

Students who wish to transfer college-level coursework from institutions outside the United States or Canada must submit official transcripts and English translations as well as an official statement of educational equivalency from a recommended international credentials evaluation service. A list of evaluation services may be obtained from the Office of Admissions. Fees depend upon the agency performing the evaluation. The evaluation service will require a separate transcript and copy of the English translation.

**INTERNATIONAL UNDERGRADUATE STUDENTS**

**Office of Admissions**

(907) 786-1480

International students who intend to reside in the U.S. for the purpose of pursuing a certificate or degree as F-1 visa students and need a Form I-20 Certificate of Eligibility for Nonimmigrant F-1 Student Status must meet university and degree program admission requirements and submit the following:

1. Official TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing System) scores. See the UAA website for minimum required scores.
2. Affidavit of Financial Support for the anticipated period of study and evidence of availability of funds such as a bank statement.
3. English translations of all required documents.

International students in F-1 visa status must be formally admitted, full-time degree-seeking students. Health insurance is also mandatory. Contact the international student advisor in the Office of Admissions for details.

**RELATED UNDERGRADUATE ADMISSION POLICIES**

**CATALOG YEAR**

Students who wish to earn an undergraduate certificate or degree must meet the requirements specified in the catalog in effect at the time of admission to the certificate or degree program, or the catalog in effect at the time of graduation. Certificate and associate’s degree students have five years to complete their certificate or degree requirements under the terms of the catalog in effect at the time of admission. Baccalaureate students have seven years. Students who take longer to complete their programs must reapply for admission and meet the catalog admission and graduation requirements in effect at the time of readmission or graduation.

Each student's catalog year is established when the student is first admitted into a certificate or degree program as a major or pre-major. A student's catalog year is adjusted if the student formally postpones admission (see the Postponed Admission section in this chapter) or executes a change of major (See Change of Major or Degree below).

**CHANGE OF MAJOR OR DEGREE**

Once formally admitted and in attendance, students may request a change of major or degree program to another program through the Change of Major/Degree process. Students admitted initially in undeclared or pre-major status may also declare a major or degree program through this process. Students must meet the specific admission requirements of the desired program and must be formally accepted by signature of the dean or department chair. No fee is required with a change of major or degree to the same level (baccalaureate to baccalaureate or certificate/associate's to certificate/associate's).

Students who change their major or degree program must meet the catalog requirements in effect at the time of the change or the catalog in effect at the time of graduation. Exception: Students who change from pre-major to full major must meet the catalog requirements in effect at the time of initial admission to the pre-major or the catalog in effect at the time of graduation.

**CHANGE OF ADMISSION LEVEL**

To change from a certificate/associate's level program to a baccalaureate level program, a student must reapply for admission and meet all the requirements for the new admission level.

To change from a baccalaureate level program to a certificate/associate’s level program, a student must complete and submit a Change of Major form as described above. Changes from baccalaureate to certificate/associate’s programs will be processed for the next available term. This type of Change of Major will also cancel out the previous active bachelor’s program. If a student later decides to complete a bachelor’s program, he or she will need to reapply for admission to a bachelor’s program and pay applicable admission fees.

**CONCURRENT DEGREES**

Students may pursue concurrent degrees as long as they have formally applied and been accepted to each program. (See Chapter 10, Undergraduate Programs, for further information.)

**PRE-MAJORS OR UNDECLARED**

Students applying to programs with selective admission criteria or limited space may initially be admitted to a pre-major or undeclared status. Admission to pre-major or undeclared status does not guarantee subsequent admission to the major. Students are advised to contact their program advisor at the earliest opportunity for further information about the program’s special requirements and for guidance in selecting appropriate preparatory classes.

Students admitted to pre-major status must satisfy all requirements for formal admission to the major and then complete the Change of Major process. Such changes will not affect a student's degree requirements or catalog year.

Students admitted to undeclared status must satisfy all requirements for formal admission to the major and then complete the Change of Major process. A change of major from undeclared status to an official degree or certificate program will initiate a new catalog year. Students who change their major must meet the catalog requirements in effect at the time of the change of major or the catalog in effect at the time of graduation.

**TRANSFER EVALUATIONS**

Transfer evaluations will be completed for all undergraduate certificate and degree-seeking students who have attended other regionally accredited colleges and universities. Once the
student has been admitted to a certificate or degree program, transcripts will be evaluated. Only transcripts from regionally accredited institutions declared at the time of admission are considered for transfer evaluation. Students may view most courses that have been previously evaluated by UAA by visiting the transfer credit resource website at www.uaonline.alaska.edu. For more information, see Transfer Credits in this chapter.

APPLICATION AND ADMISSION STATUS FOR UNDERGRADUATE CERTIFICATE AND DEGREE-SEEKING STUDENTS: TERMS AND DEFINITIONS

APPLICATION STATUS

Incomplete Application
An incomplete application is one that is not accompanied by all required documents; generally, an application is considered incomplete until all required official transcripts and test scores have been received.

Departmental Review
An application flagged for departmental review is one awaiting departmental recommendation for admission.

Postponed Application
Students who have not yet attended since applying for admission may postpone their application by notifying the Office of Admissions. Students who attend the semester for which they applied but do not complete the application process until a subsequent semester will be admitted to the semester for which they originally applied. Please note: This may impact a student’s eligibility to receive financial aid.

Withdrawn Before Admission
Students must complete or postpone their admission by the end of the semester for which they have applied. At the end of each semester, applications that are still incomplete and not postponed may be withdrawn.

ADMISSION STATUS

Complete Admission
All required documents have been received and all admission standards met. This includes attending the semester for which the student is admitted.

Incomplete Admission
In-progress transcripts have been received, but final high school or college transcripts are still missing. All admissions still incomplete at the end of the semester will be withdrawn. Please note: Financial aid will not be released on an incomplete admission.

Provisional Admission
University admission requirements have been met, but the student still needs to complete one or more department-specified provisions.

Postponed Admission
Students may postpone their admission for up to one year by notifying the Office of Admissions prior to the end of the semester for which they originally applied. Students may not postpone their admission if they attend during the semester for which they applied.

Withdrawn After Admission
Admission will be withdrawn when students do not attend classes during, or postpone their admission by the end of, their admission semester. To reactivate an application that has been withdrawn, a student may submit a Postponement Request form within one year or reapply for admission.

Returning Students – No Attendance Outside the UA System
Undergraduate certificate and degree-seeking students who have had a break in their UAA attendance but have not attended another institution outside the UA system and who wish to retain their original admission catalog may update their admission status. Individual departments reserve the right to refuse students readmission to their programs.

Returning Students – With Attendance Outside the UA System
Undergraduate certificate and degree-seeking students who attend another institution outside the University of Alaska system following their UAA admission must reapply for admission unless one or more of the following criteria have been met:
- Prior department approval via petition to take classes at another institution(s).
- Enrollment at outside institution was concurrent with UAA enrollment.
- Enrollment at outside institution occurred during summer semester.
- Enrollment was in correspondence courses.
- Student participated in a national or international student exchange.
- Student is participating in the Servicemembers Opportunity Colleges (SOC)-approved military programs.
- Outside institution was unaccredited at time of attendance.
- Outside institution was Community College of the Air Force or Excelsior (formerly Regents) College.

MASTER’S DEGREE PROGRAMS AND GRADUATE CERTIFICATES
See Admission Requirements in Chapter 12, Graduate Programs, for information.

GENERAL INTEREST AND NON-DEGREE-SEEKING OPTIONS
Students who wish to take classes for general interest or personal/professional development and who do not wish to earn a certificate or degree from UAA may apply for admission as non-degree-seeking students.

Non-degree-seeking students may take courses for which they have the prerequisite skills and experience. They are not required to submit transcripts or test scores for admission, but still must meet placement requirements and prerequisites for individual courses. Students with little or no previous college experience are strongly encouraged to complete a UAA-approved placement test and meet with an academic advisor to determine appropriate entry levels of instruction. Students who wish to register for graduate courses may be required to obtain the department chair’s or faculty member’s signature, and are strongly advised to contact the department at the earliest opportunity.

To qualify for non-degree-seeking admission, a student must meet one of the following requirements:
1. Have earned a high school diploma or GED; or
2. Be at least 18 years of age; or
3. Have completed UAA’s Secondary School Student Enrollment process as described in this chapter.

Admission as a non-degree-seeking student does not guarantee future admission to a certificate or degree program. Credits earned as a non-degree-seeking student may be applied to certificate or degree programs only as specified in admission to the individual programs.

Non-degree-seeking students do not qualify for federal or state financial aid benefits, nor do they qualify to receive a Form I-20 Certificate of Eligibility for Nonimmigrant (F-1) Student Status.
INTERNATIONAL STUDENTS, NON-DEGREE-SEEKING
Office of Admissions
(907) 786-1480
Non-degree-seeking students do not qualify to receive a Form I-20 Certificate of Eligibility for Nonimmigrant (F-1) Student Status. Those with certain other types of visas including B-1 or B-2 visitor visas, F-2 visas and those on the visa waiver program are prohibited from studying in a full course of study. Contact the international student advisor in the Office of Admissions for further details.

SECONDARY SCHOOL STUDENTS
Secondary school students are those who are in the 9th, 10th, 11th, or 12th grade and have not already earned their high school diplomas or completed a GED. For more information, see the Secondary School Student Enrollment Policy as described in this chapter.

RELATED NON-DEGREE-SEEKING ADMISSION POLICIES
TRANSFER CREDITS
Non-degree-seeking students are not eligible to have transfer credits evaluated. Transferring credit is an option for certificate and degree-seeking students only. Students who wish to get an unofficial estimation of how their credits might transfer may visit the University of Alaska's transfer credit resource site at www.uaonline.alaska.edu.

CHANGE OF MAJOR OR DEGREE
No majors or degrees are offered in the general interest and non-degree-seeking options. Students initially admitted as non-degree-seeking who later decide to pursue UAA certificates or degrees must submit a new application and all required documents and meet admission requirements for the corresponding certificate or degree program and level.

ACADEMIC PLANNING
Proper academic planning allows students to complete their chosen course, program, or degree successfully and efficiently. Students are advised to consider their personal circumstances (e.g., job schedules, financial aid, family situations, childcare) as well as short (one to two semesters), medium (one to two years), and long-term educational goals when planning their academic programs. The UAA Advising and Testing Center offers general academic advising, career counseling, personal development, and testing and assessment services as well as orientations and special workshops for all UAA students.

Each academic program has clearly defined student outcomes that describe the knowledge, skills, and capabilities that students acquire in the program.

PROGRAM SELECTION
A student's selection of a program of study is usually based upon academic interests, vocational objectives, and personal goals. UAA offers over 180 different programs at the certificate, two-year, four-year, and master's degree levels. Students are strongly advised to contact the department to confer with a faculty advisor about academic programs that interest them. While all programs have differences, students generally must complete:

- Admission Requirements, which are set by the individual program. For example, a program may require prior coursework, specific entrance examination scores, or particular job-related competencies.
- General University Requirements (GURs), General Education Requirements (GERs), and College Requirements, which establish policies that must be followed but which allow students to select from a restricted offering of courses.
- Specific Program Requirements, which vary according to the program. Programs may also call for specific GUR, GER, or prerequisite courses to fulfill specific program needs. The program may also be divided into two or more categories, often as follows:
  - Core Courses that are required of every student in the program.
  - Program selective courses (sometimes called options, tracks, concentrations, emphases, or specialties) that allow students to pursue their own interests within the program.
  - Elective Courses, which can be taken from a number of departments (depending upon the program) to fill the remaining credits in the degree or program. Additionally, in a number of programs, students also have the option to complete a minor field of study.

Because requirements vary greatly among certificate and degree programs, students are strongly encouraged to meet with faculty advisors prior to entering a program or declaring a major, both to ensure that they understand the program requirements prior to registering for classes and to enable proper academic planning.

COURSE SELECTION
Proper course selection is essential to the efficient completion of a program and must take into account the specific requirements for the major, the offerings available each year, the timing of offerings within each semester, and the order in which courses must be completed.

Within each program, faculty advisors can then make available to students both the program's course rotation schedule (which shows the planned course offerings within a program) and program plan (which shows on a semester-by-semester basis how students might typically make their way through a program in light of specific prerequisites and requirements). After students have met with a faculty advisor and developed an academic plan detailing which courses they must take for their program and the order in which they must be taken based upon the program requirements, students are prepared to select their courses each semester and to plan for coming semesters.

While general academic advising is available through the UAA Advising and Testing Center and specific program advising is available through the departments, the planning, selection, registration, and completion of courses, programs, and degrees are ultimately the responsibility of the student.

REGISTRATION
Students may attend classes in a course offered at UAA only after they have properly completed the registration process for that course. They register either in person, via proxy, or via UAOnline. (See Registration later in this chapter for details and deadlines). Students select courses that meet their educational needs and that fit into their semester schedule. Registration in multiple sections of the same course is not allowed.

UAA reserves the right to drop/withdraw a student from any or ALL sections for which they have multiple registrations. This administrative drop may be done at any time without prior or subsequent notice to the student.

COURSE PLACEMENT
Appropriate course placement is an essential component of academic success. Students are encouraged to meet with academic advisors within their academic department prior to registration to discuss educational goals, placement scores, and course prerequisites for appropriate course selection.

If registering for the first time in English or mathematics courses, students must show evidence of appropriate placement. For mathematics course placement purposes, ACT and SAT scores are valid for two years from the date taken. UAA-approved placement test scores are valid for one year for mathematics. Students may be required to provide proof of their placement scores on the first day of class. Refer to this catalog and the online class schedule for specific course prerequisites and placement score requirements.

English and mathematics placement tests are administered through the UAA Advising and Testing Center. Contact Advising and Testing for information on available placement tests and how to access student...
guides with sample questions. English and mathematics placement tests are also administered at the Chugiak-Eagle River campus, military sites, extended campus sites, and community campuses.

**ENGLISH COURSE PLACEMENT**

English (ENGL), English as a Second Language (ESL), and Preparatory English (PRPE) courses require appropriate placement scores for course registration. Test scores reflect national norms and are subject to change. Students who have not earned appropriate scores on the ACT English or SAT Critical Reading tests are required to take a UAA-approved English placement test prior to enrolling in any English composition or Preparatory English courses.

A student who has earned an appropriate ACT English or SAT Critical Reading score is eligible to enroll in the following English courses:

<table>
<thead>
<tr>
<th>English Course</th>
<th>ACT English Score</th>
<th>Critical Reading Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL A111</td>
<td>22-29</td>
<td>620+</td>
</tr>
<tr>
<td>ENGL A211*</td>
<td>30+</td>
<td>620+</td>
</tr>
<tr>
<td>ENGL A212*</td>
<td>30+</td>
<td>620+</td>
</tr>
<tr>
<td>ENGL A213*</td>
<td>30+</td>
<td>620+</td>
</tr>
<tr>
<td>ENGL A214*</td>
<td>30+</td>
<td>620+</td>
</tr>
</tbody>
</table>

* If a student has earned 30+ on the ACT English test or 620+ on the SAT Critical Reading test, ENGL A111 is waived as a prerequisite to higher-level composition courses. With the appropriate score, a student may enroll directly in ENGL A211, A212, A213 or A214. A student choosing this option is required to choose an additional 3 credits from the General Education Requirements (GER) Written Communications Skills list, for a total of six credits. Contact the English Department (786-4355) for questions on test scoring.

**MATHEMATICS COURSE PLACEMENT**

Mathematics placement testing is available through Advising and Testing (786-4500). A student who has completed the course prerequisites is eligible to enroll in MATH courses. A student who has not completed the course prerequisites but has completed courses with similar content and has earned an appropriate ACT, SAT or UAA-approved placement test score is eligible to enroll in the following Mathematics courses:

<table>
<thead>
<tr>
<th>Mathematics Course</th>
<th>ACT Math Score</th>
<th>SAT Math Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH A055</td>
<td>400-479</td>
<td></td>
</tr>
<tr>
<td>MATH A105</td>
<td>18-21</td>
<td>480-519</td>
</tr>
<tr>
<td>MATH A107</td>
<td>22-25</td>
<td>520-589</td>
</tr>
<tr>
<td>MATH A200**</td>
<td>26+</td>
<td>590+</td>
</tr>
</tbody>
</table>

**CONTACT HOURS**

UAA academic policy has established the following minimum contact times. Most lecture/discussion courses require a minimum of 750 minutes of contact time and a minimum of 1,500 minutes of course-related work completed outside the classroom to award 1 credit. Some courses require more than 750 minutes of contact time and more than 1,500 minutes of course related work completed outside the classroom.

One contact hour is defined as 50 minutes of contact time.

Courses may not be offered for more than 1 credit each week.

One continuing education unit (CEU) may be granted for satisfactory completion of 10 contact hours of classroom instruction or for 20 contact hours of laboratory or clinical instruction.

Alternative learning modes are subject to the instructional objectives and outcomes of comparable, traditionally taught courses, but contact hour standards may differ.

Contact hours are expressed in the course descriptions of individual courses by the expression of “x+y” where the x equals the course’s contact hours per week and the y equals the course’s lab contact hours per week. Contact hours are calculated based on a 15-week semester. All courses must meet for 15x + 15y contact hours regardless of the number of weeks in which the course is offered.

**COURSE NUMBERING SYSTEM**

Each course offered by the university is defined by the department designator, a campus designator, and a three-digit course number. The designator commonly abbreviates the name of the discipline or department (for example, ENGL for English). In general, the first numeral of the three-digit course number indicates the year in which the course is ordinarily taken. For example, ENGL A111 is ordinarily taken by first-year students, and ENGL A313 is taken by third-year students.

Advances in course level (lower, upper, and graduate) correlate with sophistication of academic work. It should be noted that some students find introductory courses more demanding than advanced, specialized courses. In such courses, a more comprehensive approach and the first exposure to new ways of thinking may be harder for some individuals than covering a smaller, more familiar, area in much greater detail.

The following definitions describe the types of courses that can be expected at each level:

**NONCREDIT COURSES**

A001-A049: Noncredit courses. Offered as career development, continuing education or community interest instruction. Not applicable to any degree or certificate requirements (even by petition). They have no regular tuition but do have other special fees.

AC001-AC049: Continuing education unit (CEU) courses: CEUs are awarded upon completion of a course of study that is intended for career development or personal enrichment. CEU courses may not be used in degree or certificate programs or be converted to academic credit. The number of CEUs awarded is related to the amount of time required to master the material presented, with one CEU typically awarded for 10 hours of active participation in a directed learning environment with an instructor available, or for 20 hours of laboratory or experiential learning where the student’s investigation and discovery is largely independent. The number of CEUs awarded is determined by the chief academic officer (dean or director) of the offering unit. Fractional CEUs may be awarded.

**PREPARATORY/DEVELOPMENTAL COURSES**

A050-A099: Courses with these numbers provide basic or supplemental preparation for introductory college courses. They are not applicable to transcripted certificates or associate’s, baccalaureate, or graduate degrees, even by petition.

**ACADEMIC CREDIT COURSES**

Courses with these numbers count toward undergraduate and graduate degrees and certificates as described below. Each course includes a component for evaluation of student performance. Student effort is indicated by credit hours. One credit hour represents three hours of student work per week for a 15-week semester (e.g., one class-hour of lecture and two hours of study or three class-hours of laboratory) for a minimum of 750 minutes of total student engagement, which may include examination periods. Equivalencies to this standard may be approved by the chief academic officer of the university or community college. Academic credit courses are numbered as follows.

The numbering sequence signifies increasing sophistication in a student’s ability to extract, summarize, evaluate and apply relevant class material. Students are expected to demonstrate
learning skills commensurate with the appropriate course level, and to meet, prior to registration, prerequisites for all courses as listed within the course descriptions.

**LOWER DIVISION COURSES**

Lower division courses are usually taken by freshmen and sophomores.

**A100-A199**: Freshman-level, lower division courses. Introduce a field of knowledge and/or develop basic skills. These are usually foundation or survey courses. Applicable to certificates, associate’s degrees, and baccalaureate degrees in accordance with certificate and degree requirements.

**A200-A299**: Sophomore-level, lower division courses provide more depth than 100-level courses and/or build upon 100-level courses. These courses may connect foundation or survey courses with advanced work in a given field, require previous college experiences, or develop advanced skills. Applicable to certificates, associate’s degrees, and baccalaureate degrees.

**UPPER DIVISION COURSES**

Upper division courses are usually taken by juniors and seniors. Upper division courses require a background in the discipline recognized through course prerequisites, junior or senior standing, or competency requirements. These courses demand well-developed writing skills, research capabilities, and/or mastery of tools and methods of the discipline.

**A300-A399**: Junior-level, upper division courses build upon previous coursework and require familiarity with the concepts, methods, and vocabulary of a discipline. They are applicable to baccalaureate degrees and may be applicable to associate’s degrees, in accordance with degree requirements. These courses are not applicable to graduate degree requirements.

**A400-A499**: Senior-level, upper division courses require the ability to analyze, synthesize, compare and contrast, research, create, innovate, develop, elaborate, transform, and/or apply course material to solving complex problems, and generally require a substantial background of study in lower-level courses.

These courses are applicable to baccalaureate degrees, in accordance with degree requirements. These courses may be applied to graduate requirements for some master’s degrees with prior approval of the student’s graduate study committee. However, a student may not apply a course to both a baccalaureate and a master’s degree.

**GRADUATE LEVEL COURSES**

**A500-A599**: Graduate-level courses require a background in the discipline, and an ability to contribute to written and oral discourse on advanced topics in the field at a level beyond that required by a bachelor’s degree.

These courses demand rigorous analysis, synthesis, and research skills and require the ability to read, interpret and evaluate primary literature in the field. Students analyze raw data, evaluate models used in research and draw independent conclusions. Preparation includes demonstrated accomplishment in a specific course or discipline, or completion of a significant and related program of study. Student activities are often self-directed and aimed not only at the formation of supportable conclusions, but also at a clear understanding of the process used in those formations.

These courses are applicable to post-baccalaureate, master’s, post-baccalaureate certificates, and doctoral degrees, in accordance with degree requirements. With prior approval of the major department they may be used to meet degree or graduation requirements for some baccalaureate degrees, but a student may not apply a course to both a baccalaureate and a graduate degree.

**PROFESSIONAL DEVELOPMENT COURSES**

**A600-A699**: Courses with these numbers are designed to provide continuing education for professionals at a post-baccalaureate level. These courses are not applicable to university degree or certificate program requirements, are not interchangeable with credit courses, even by petition, and may not be delivered simultaneously (stacked) with credit courses of similar content.

These courses may be graded Pass/No pass or, if the course includes an evaluation component, by letter grading. The measurement of student effort is indicated by professional development credits. Each professional development credit awarded requires at least 12.5 hours of student engagement in a directed learning environment under the supervision of a qualified instructor. These courses are provided on a self-support basis.

The following second and third digits of course numbers are used for specific types of courses:

- **90** selected topics
- **92** seminars and workshops
- **93** special topics courses, to be offered only once
- **94** trial (experimental) courses intended to become permanent
- **95** internships, practica, community-based learning, or cooperative education
- **97** independent studies
- **98** individual research
- **99** thesis

**PREREQUISITES**

Students are expected to meet prerequisites for all courses prior to registering. Prerequisites are listed with the course description and indicate the preparation and/or background necessary to undertake academic study. If a student has not met the necessary prerequisites, the student may request permission from the instructor of the course to enroll in the class. It is the responsibility of the department to enter the appropriate override codes into Banner that will allow the student to register. A faculty member may withdraw students who enroll without either prerequisites or faculty permission.

**CO-REQUISITES**

Co-requisites are courses that must be taken concurrently. Students are responsible for enrolling and attending all co-requisite courses in the same semester. Co-requisites are listed in the individual course descriptions. A faculty member may withdraw students who do not enroll for the appropriate co-requisites.

**REPEATABLE COURSES**

Some courses (such as special topics) may be taken more than once for additional credit. Only those courses for which repeatability for additional credit is explicitly noted in the course description qualify for this option.

**RETAILING COURSES**

Any course for which a student has received a transcripted grade may be retaken at the student’s discretion, if the course is available and if permitted by the program offering the course. The student’s transcript will reflect all grades earned by the student in each semester in which the course is taken. Only the credits and chronologically last grade earned are applied toward graduation requirements, prerequisite fulfillment, and cumulative UAA GPA calculation.
The credit/no credit grading option cannot be selected when courses are to be retaken for GPA improvement. Students may not retake a course through credit-by-examination, correspondence, or through work at another college or university for the purpose of raising their grade point average at UAA.

To determine eligibility for graduation with honors, all credits and grades from retaken courses are included in GPA calculations.

**REGISTRATION RESTRICTIONS**

In addition to prerequisites, registration restrictions are conditions a student must meet before enrolling in a course. Examples include, but are not limited to, admission requirements, special approval, level requirements, special licenses or credentials.

**SPECIAL NOTES**

In addition to prerequisites and registration restrictions, special notes may describe other qualities and expectations about the course that may impact student success. Special notes include, but are not limited to, additional information about academic environment, degree planning, or repeatability options.

**PRACTICUM REQUIREMENTS**

**GENERAL INFORMATION**

Many academic programs require completion of a practicum, clinical assignment, or other field placement. Before applying to such programs, students should familiarize themselves with the requirements for such placements, which may include infectious disease testing, drug testing, criminal background checks, or other qualifications. Students are responsible for ensuring that there are no legal or other impediments to their acceptance into a placement.

**CRIMINAL HISTORY**

Placements in facilities with programs administered by the State of Alaska Department of Health and Social Services are subject to background checks under state law and regulation. For more information about these background checks and the crimes that bar an individual from being associated in any manner with a covered facility, see www.hss.state.ak.us/dph/CL/bgcheck/default.htm. Criminal background checks may also be required for placements in other facilities.

**HEALTH AND SAFETY**

Placements may require documentation of immunity to infectious diseases. The circumstances in which a student with an infectious disease, or who otherwise poses a significant risk to the health and safety of others, may participate in a placement will be determined on a case-by-case basis. A student who poses a significant risk to the health and safety of others that cannot be eliminated by a reasonable modification of policies, practices or procedures, or by the provision of auxiliary aids or services, will be excluded from participation.

The program descriptions in this catalog may contain more detailed requirements for specific programs. Students should always check on requirements for practicum, clinical, or other field placements for the programs in which they intend to enroll.

**SPECIAL COURSES**

**DIRECTED STUDY**

A directed study course is a permanent catalog course delivered on an individual basis when the course is not offered that semester.

The policies are as follows:
1. Retroactive registration is not permitted.
2. Forms incorrectly completed will not be processed.
3. Courses scheduled for less than a full semester may not be offered for more than 1 credit each week.
4. For fall and spring semesters, the deadline for directed study registration is the end of the ninth week.
5. For the summer semester, the deadline for directed study registration is the end of the seventh week of the 10-week session.
6. There can be no change in the basic content of the course. In particular, this means the number, level, prefix, description, title, grading policy (A-F, P/NP), credits, and course content cannot differ from the permanent course.
7. Only regular (tenure track or term) faculty are allowed to supervise or to be the instructor of record for directed study courses. The dean or director may function as instructor of record when no regular faculty is available to fulfill that function. The responsibilities of the instructor of record are to:
   a. approve the course of study;
   b. approve the credentials of other faculty involved;
   c. see that the material is presented in full and in a timely manner;
   d. evaluate student’s progress in achieving student outcomes;
   e. generate course grade and see that the grades are turned in to the Office of the Registrar; and
   f. assume responsibility for academic issues that arise in the course.
8. The faculty member teaching the course must have taught the permanent course or a related course prior to teaching a directed study.
9. The initiation of directed studies must come from the faculty in the discipline and must be approved by the dean or director.
10. Once the directed study course has been approved and created, the student will be automatically registered for the course unless holds exist on the student account.

**INDEPENDENT STUDY**

An independent study course consists of topics or problems chosen by the student with the approval of the department concerned, with the supervision of an instructor, and final approval by the dean/director. These courses are not duplications of and must differ significantly from any catalog course. The independent study provides the opportunity for students who have completed most of the required courses in their program to study topics which are not offered.

The policies are as follows:
1. Retroactive registration is not permitted.
2. Independent study courses cannot be used to fulfill GER. This policy is not petitionable.
3. Forms incorrectly completed will not be processed.
4. Courses scheduled for less than a full semester may not be offered for more than 1 credit each week.
5. For fall and spring semesters, the deadline for independent study registration is the end of the ninth week.
6. For the summer semester, the deadline for independent study registration is the end of the seventh week of the 10-week session.
7. Only regular or term faculty are allowed to be the instructor of record for the independent study courses. The dean or director may function as instructor of record when no regular or term faculty are available to fulfill that function.

The responsibilities of the instructor of record are to:
   a. approve the course of study;
   b. approve the credentials of other faculty involved;
   c. see that the material is presented in full and in a timely manner;
   d. evaluate student’s progress in achieving student outcomes;
   e. generate course grade and see that the grades are turned in to the Office of the Registrar; and
   f. assume responsibility for academic issues that arise in the course.
8. The initiation of independent study courses must come from faculty in the discipline and must be approved by the dean or director.
9. Once the independent study course has been approved and created, the student will be automatically registered for the course unless holds exist on the student account.

STACKED COURSES
Two or more courses from the same discipline (prefix) covering common course content, but at different course levels, may be taught together. These courses are stacked, and students may register for the course level that meets their objectives, and for which they meet the prerequisites. Students enrolled in stacked courses either meet at the same time and location or receive instruction by the same delivery mode. Expectations for student performance and achievement reflect course level. Catalog descriptions of these courses include the phrase “May be stacked with.” The class information on UAOnline indicates if a class is being offered in stacked format.

CROSS-LISTED COURSES
A course that contains content related to two or more disciplines may be offered under the prefixes that identify those disciplines. These courses are termed “cross-listed.” Students may enroll in cross-listed courses under the discipline and prefix of their choice. Catalog descriptions of these courses include the phrase “Cross-listed with.” The class information on UAOnline indicates if a class is being offered in cross-listed format.

INTERNESHIP
An internship is a student work experience in which the employer or agency is the student’s immediate supervisor, is active in planning the expected outcomes, and is involved in the evaluation of the student’s achievements. A faculty member must act as instructor and approve the work activities, the student learning outcomes, and the evaluation method. The instructor reviews all of the final documents upon completion of the assignment and assigns the final grade. Internships require that the student completes a minimum of 45 hours of work with the employer for each credit earned. Final course grades are generally based on hours worked, outcomes achieved, employer and instructor ratings of work performance, and evaluation of required journals or reports.

Internships may be arranged either through the student’s academic department or through the UAA Career Service Center. (See Chapter 6, Advising and Academic Support, for further information.) Registration deadlines follow independent study and directed study dates.

PRACTICUM
A practicum is a student work experience, for which the academic department establishes the objectives and outcomes. The instructor facilitates, monitors, evaluates student accomplishments, and assigns the final grade.

INTERDISCIPLINARY/MULTIDISCIPLINARY COURSES
Courses that explore the broader meaning and significance of concepts, principles, or research techniques common to several disciplines are called interdisciplinary. Courses that examine a common topic or problem by drawing upon the perspectives of many disciplines are called multidisciplinary.

FLEXIBLE FORMAT COURSES
Certain courses are offered in flexible formats. They include:

  a. group study
  b. tutorial study
  c. scheduled lectures
  d. diverse learning aids such as video, audio, computer, and library resources.

OPEN ENTRY/OPEN EXIT
These courses permit students to enter and exit at any time during the semester. Students generally work at their own pace to complete the required course content.

VARIABLE CREDIT
These courses may be taken for a variable number of credits with prior approval of the faculty member. Workload and tuition depend on the number of credits selected.

SHORT
Short courses offer the content of a full semester course in a shorter time frame.

MINI
Mini-courses are offered for fewer than three credits and usually in a shorter time frame than a full semester.

FULL-TIME/PART-TIME STATUS AND COURSE LOAD
An undergraduate student who is enrolled at UAA for 12 or more credits is classified as full-time. An undergraduate who is enrolled at UAA for fewer than 12 credits is classified as part-time and must be enrolled in at least six credits to be considered half-time.

A student who has been admitted to a UAA graduate program and is enrolled at UAA for nine or more 600-level credits is classified as full-time. Courses at the 400-level will count toward full-time status only if they are applicable to the graduate degree program. A half-time graduate student is one enrolled for at least five graduate credits (400-level credits included if in the graduate degree program). See Chapter 12, Graduate Programs, for information.

Audited courses, credit-by-examination courses, continuing education units (CEUs), and professional development courses (500 level) are not included in the computation for full-time or part-time status.

COURSE LOAD
Students may register for a maximum of 19 credits during the fall and spring semesters, and a maximum of 15 credits during the summer session. Students who want to enroll for additional credits must submit an approved Request for Credit Overload Form to the Office of the Registrar.

The faculty advisor and appropriate dean or director must approve overload requests for certificate or degree-seeking students. An advisor in the Advising and Counseling Center must approve overload requests for non-degree-seeking students.

Students should consider their graduation timeline when planning their study load. The minimum number of required credits is 60 for an associate’s degree and 120 for a baccalaureate degree. To complete an associate’s degree in two years or a baccalaureate degree in four years (excluding summers), a full-time student should plan to take a minimum of 15 credits each semester. Many degrees require more than the minimum number of credits.

Students should be aware that the need for preparatory work (for example, in English or mathematics) in preparation for university-wide general education required courses may further extend the time required to complete their programs. When planning course load, students should also keep non-school demands on available time, such as employment and/or family responsibilities, firmly in mind.
**SPECIAL STUDENTS**

Additional policies apply to the following categories of students:

**SECONDARY SCHOOL STUDENT ENROLLMENT POLICY**

The University of Alaska Anchorage welcomes all students who meet the admissions requirements for certificate, degree, or non-degree-seeking status set forth in this catalog. The following policy applies to all applicants who are in the 9th, 10th, 11th or 12th grade and have not already earned their high school diplomas or GEDs.

**SECONDARY SCHOOL STUDENT ADMISSION AND REGISTRATION PROCEDURES**

In order to promote academic success and to facilitate a smooth transition to postsecondary education, the following procedures have been established.

**APPLICATION PROCESS**

www.uaonline.alaska.edu

Secondary school applicants may be admitted on a semester-by-semester basis to non-degree-seeking status only. Applications for admission to UAA are available online, at the University Center One-Stop, or at the community campuses.

**REGISTRATION PROCESS**

To complete the registration process, secondary students must:

1. Pick up secondary student registration forms online, at University Center One-Stop, or at the community campuses;
2. Obtain signed approvals on the Secondary School Student Signature Form from the local area school district designees. The designees will assess the student's social and academic maturity and readiness for success and safety in the courses requested. If the student is home-schooled, the home-school organization director will serve as the local school district designee;
3. Obtain signed approval of the course instructor on the Secondary School Student Signature Form for registration in a course. The course instructor's approval is based on the instructor's judgment that the student meets factors 1 through 4 in the University Determination section of this policy. Course instructors may require copies of high school transcripts and SAT, ACT, or an approved test to determine appropriate course placement;
4. Complete a Secondary School Student and Parent/Guardian Statement of Understanding. This needs to be signed by the student and parent/guardian;
5. Complete a Proxy for Registration Form if someone other than the parent or legal guardian of the student is processing the request. This needs to be signed by the student and parent/legal guardian;
6. Submit forms named in Nos. 2 through 5 to the UAA Office of the Registrar or community campus director for review and final approval. The campus designee will review the student packet for completeness and assess the student's social and academic maturity and readiness for success and safety in the courses requested;
7. Upon approval, students will be registered manually. Priority is given to degree-seeking students. Enrollment guidelines for qualified secondary school students are as follows:
   a. Enrollment may not exceed 7 credits per semester;
   b. Prerequisites for the courses requested must be met;
   c. Courses must be at the 200 level or lower (exceptions must be approved by the course instructor, department chair, and dean, director, or designee);
8. Pay all tuition, course, and student fees;
9. Adhere to UAA policies and procedures found in the catalog and student handbook;
10. Attain a grade of at least C (2.00 on a 4.00 scale) from each UAA course to receive permission to register for future semesters; and
11. Meet other program requirements established for secondary school students at the community campuses.

**STUDENT AND PARENT/GUARDIAN AGREEMENT**

The registration process at UAA requires all secondary school student applicants and their parents/guardians to complete a Secondary School Student and Parent/Guardian Statement of Understanding. Signing the agreement signifies understanding of, and agreement with/to all of the following:

1. University work is much more rigorous and much less guided than secondary education course work;
2. The courses taken will establish an official transcript that will follow the student throughout the student's college and/or university career;
3. Adult themes and diverse perspectives are essential to university materials and discourse;
4. A secondary school student who registers in university courses is responsible for maintaining at least a C (2.00 on a 4.00 scale) cumulative high school grade point average in order to register for college-level credit;
5. The university will not act in a parental or supervisory role. Any UAA-approved secondary school student under the age of 13 must be accompanied at all times and directly supervised by a parent or legal guardian while on a UAA campus;
6. A parent or guardian may not attend a course in which their secondary school student is registered unless and until the parent or guardian is also officially registered for the course. The parent or legal guardian of a UAA-approved secondary school student under the age of 13 may monitor the classroom from the corridor serving the classroom if not registered for the course. Failure by the parent or legal guardian to directly supervise the student who is a child will result in the university administratively withdrawing the minor student from the class using the published withdrawal guidelines and refund schedules. A complete copy of the Guidelines and Procedures for Children and Minors on Campus can be found in the UAA Fact Finder/Student Handbook;
7. A secondary school student who registers in university courses is fully responsible for complying with all policies and procedures of the university. This includes being aware of and adhering to the University Student Code of Conduct and any registration- or payment-related deadlines.

A permanent university disciplinary record is established for all students who are found responsible for violating the Code of Conduct.

**UNIVERSITY DETERMINATION**

The university reserves the right to deny or discontinue the enrollment of a student in a course or courses if the university determines that the student lacks the maturity, the legal or intellectual ability or the academic preparedness to participate on an equal footing with other students, or if it is otherwise not in the legitimate interest of the university for the student to participate. Factors that may be considered in such a determination include, but are not limited to, the following:

1. Whether the parents (including guardians) of the student support the student's enrollment in the course;
2. Whether, in the judgment of the faculty member, the student:
   a. possesses the intellectual and academic resources to participate meaningfully on an equal footing with other students;
   b. has the emotional maturity to absorb and appreciate the significance of material covered in the course,
c. has the potential to behave appropriately so as to not disrupt the class or distract the faculty member or other students in the course,

3. Whether the course involves high risk activities for which the university requires a release of claims of all students, in light of the fact that such a release is not enforceable as to a student under the age of 18; and

4. Whether the student can lawfully participate in the course.

SPECIAL PROGRAMS
Exceptions to the above admission and registration procedures may be made for special academic programs at the department, school, college or campus level. Contact the Office of the Registrar at the University One-Stop, specific academic programs or community campuses for information regarding the availability of these special programs.

CERTIFICATE AND DEGREE PROGRAMS
Secondary school students are not eligible for admission to certificate or degree programs until they earn a high school diploma or GED or otherwise meet university admission requirements for degree-seeking students. (See the Admission section of this chapter for more information.)

INTERNATIONAL STUDENTS
International students with permanent residency or immigrant visas may be admitted to either degree-seeking programs or non-degree-seeking options. Those with certain other types of visas, including B-1 or B-2 visitor visas, F-2 visas and those on the visa waiver program are prohibited from studying in a full course of study. Contact the international student advisor in the Office of Admissions for further details.

SENIOR CITIZENS
Alaska residents who are senior citizens may qualify for tuition and special fee consideration. (See Chapter 4, Tuition, Fees, and Financial Aid, for further information.)

VETERANS, SERVICE MEMBERS, AND ELIGIBLE DEPENDENTS OF VETERANS
Individuals in this category may qualify for tuition and special fee consideration. (See Chapter 4, Tuition, Fees, and Financial Aid, for further information.)

NON-HIGH SCHOOL GRADUATES
Individuals 18 and over who do not have a high school diploma or GED may still enroll in classes. See the Admission section of this catalog for information.

NON-DEGREE-SEEKING STUDENTS
Individuals in this category are not currently seeking a UAA certificate or degree. See the Admission section of this catalog for information.

RESIDENCY
See Chapter 4, Tuition, Fees, and Financial Aid, for information.

RESIDENT CREDIT
Resident credit at UAA is credit that is earned in formal classroom instruction, correspondence study, distance-delivered courses, directed study, independent study or research through any unit of UAA. Credit from a regionally accredited domestic institution or equivalent institution for which there is an approved affiliation or exchange agreement is also considered resident credit.

In general, credit earned at Prince William Sound Community College (PWSCC), UAF, or UAS is not considered resident credit at UAA. However, if a program is delivered collaboratively with PWSCC, UAF, and/or UAS, collaborative program credit from each participating institution is counted towards fulfillment of residency requirements.

Transfer credit, advanced placement credit, credit for prior learning, military service credit, and credit granted through nationally prepared examinations are not considered resident credit, nor are local credit by examination credits earned through locally prepared tests.

15 resident credits are required to graduate with an associate’s degree, and 30 resident credits are required to graduate with a baccalaureate degree. Students should refer to program descriptions in the catalog for additional requirements.

CATALOG YEAR
CERTIFICATES AND ASSOCIATE’S DEGREES
Each student’s catalog year is established when the student is first admitted into a certificate or degree program as a major or pre-major. A student's catalog year is adjusted if the student formally postpones admission (see Postponed Admission) or executes a change of major (See Change of Major or Degree).

Students may elect to graduate under the requirements of the catalog in effect at the time of formal acceptance to a certificate program or associate’s degree or the catalog in effect at the time of graduation.

If the requirements for a certificate or associate’s degree as specified in the entry-level catalog are not met within five years of formal acceptance into the program, admission expires and the student must reapply for admission and meet the current admission and graduation requirements in effect at the time of readmission or graduation.

BACCALAUREATE DEGREES
Students may elect to graduate under the requirements of the catalog in effect at the time of formal acceptance to a baccalaureate degree program or the catalog in effect at the time of graduation.

If the requirements for a baccalaureate degree as specified in the entry-level catalog are not met within seven years of formal acceptance into the program, admission expires and the student must reapply for admission and meet the current admission and graduation requirements in effect at the time of readmission or graduation.

AGE LIMIT OF CREDITS
There is no university-wide undergraduate policy on the age limit of credits. However, to guarantee currency of course content, some departments and degree programs require courses to have been completed within a specified period of time. Contact specific departments for more information.

TRANSFER CREDITS
Where possible, transfer credit is equated with UAA courses by matching the content, level of instruction, course activities and student outcomes. Only coursework that clearly and demonstrably satisfies the intent of a UAA General Education, college or major requirement can be accepted as a substitute. When this is not possible, evaluators may grant discipline-specific elective credit at the appropriate level. UAA reserves the right to reject transfer credit or to require an examination before credit is allowed. An evaluation of transfer credit is completed after a student has been admitted as a certificate- or degree-seeking student.

CRITERIA FOR ACCEPTANCE OF TRANSFER CREDIT
1. Transfer credits from United States institutions are accepted only if those institutions are accredited by one of the following regional accrediting associations:
• Middle States Association of Colleges and Schools
• New England Association of Schools and Colleges
• North Central Association of Colleges and Schools
• Northwest Commission on Colleges and Universities
• Southern Association of Colleges and Schools
• Western Association of Schools and Colleges
2. Only undergraduate college-level (100 to 499) courses completed with grades equal to C (2.00) or higher are considered for transfer. Grades conferring point value less than 2.00 on a 4.00 scale will not be accepted.
3. Credits transferred for application to graduate certificates or degrees are subject to additional requirements noted in Chapter 12, Graduate Programs.
4. Students who plan to transfer credits from outside the United States must provide an official statement of educational equivalency from a recommended credentials evaluation service. Addresses are available from the Office of Admissions. The student is responsible for paying evaluation fees, which depend upon the type and complexity of the evaluation.
5. Transfer credits are not included in the student’s UAA grade point average (GPA) computation, except to determine eligibility for graduation with honors.
6. Challenge examinations and credit by examinations posted on another university’s transcript will not be considered for transfer credit (see National Credit by Examination in Chapter 8 for information).
7. UAF and/or UAS resident credit posted on an official transcript is transferred to UAA subject to applicability toward degree requirements.
8. Credits from institutions that are not accredited by one of the regional associations listed above are only accepted under special arrangements that may be initiated upon student request to the specific UAA academic departments for the courses to be reviewed (such as English Department for English courses). Students wishing to pursue such transfers must clearly establish equivalency to UAA courses using evidence obtained from course descriptions, syllabi, texts, assignments, examinations and direct communication between the departmental faculties at UAA and at the originating institution.

TRANSFER OF GENERAL EDUCATION REQUIREMENT CREDITS WITHIN THE UNIVERSITY OF ALASKA SYSTEM

The General Education Requirements (GER) for baccalaureate degrees from the University of Alaska system are required by university regulation to have a common core of course work totaling a minimum of 34 credits. These include:

<table>
<thead>
<tr>
<th>Category</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Communication Skills</td>
<td>6 credits</td>
</tr>
<tr>
<td>Oral Communication Skills</td>
<td>3 credits</td>
</tr>
<tr>
<td>Humanities/Social Sciences/Fine Arts</td>
<td>15 credits</td>
</tr>
<tr>
<td>At least 3 credits in the arts</td>
<td></td>
</tr>
<tr>
<td>At least 3 credits in the general humanities</td>
<td></td>
</tr>
<tr>
<td>At least 6 credits in the social sciences from two different disciplines</td>
<td></td>
</tr>
<tr>
<td>Quantitative Skills/Natural Sciences</td>
<td>10 credits</td>
</tr>
<tr>
<td>At least 3 credits in mathematics</td>
<td></td>
</tr>
<tr>
<td>At least 4 credits in the natural sciences including a laboratory</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>34 credits minimum</td>
</tr>
</tbody>
</table>

Credit for coursework successfully completed at one University of Alaska institution towards fulfillment of the GERs at that institution shall transfer toward fulfillment of the same categories at all other University of Alaska institutions. This applies even if there is no directly matching coursework at the institution to which the student transfers. It should be noted that the 34 credit common core is a minimum requirement for general education. An institution may require more than 34 general education credits for its baccalaureate degrees, and transfer students must meet the total requirement at the receiving institution. Transfer of general education beyond the 34 credits described above will be determined on the basis of individual requirements specified by university catalogs.

In its catalog, each University of Alaska institution specifies the courses which meet the general education categories at that institution and which can thus be guaranteed to transfer as described above. Students who have received a baccalaureate degree from UAS or UAF will be considered as having met UAA’s General Education Requirements.

CLASS STANDING

Class standing is an administrative classification and does not necessarily reflect progress toward completion of a degree. Class standing is based on total credits earned. Undergraduate degree-seeking students are classified as follows:

- Freshman/First Year: 0 - 29 Credits
- Sophomore/Second Year: 30 - 59 Credits
- Junior: 60 - 89 Credits
- Senior: 90+

Transfer students will be assigned class standing based on the number of credits accepted in transfer by the university. Non-degree-seeking students are not assigned a class standing.

ACADEMIC PETITION

Deviations from academic policies or requirements must be approved by academic petition. Petition forms may be obtained from the school or college or from the Office of the Registrar.

All petitions requesting that transferred elective credit be accepted for degree requirements must be accompanied by catalog copy of the course description(s) from the institution of origin. Petitioned courses, other than those from UAF/UAS, must meet transfer credit criteria for acceptance prior to final approval.

Final authority to deny or approve petitions pertaining to school or college requirements rest with the dean or director of the school or college. Petitions pertaining to General Education Requirements (GERs) and/or general university requirements must, in addition, be processed through the Office of Academic Affairs, with final authority to approve or deny resting with the provost. Students and the department will be notified of the decision.

Changes in course level, grading, or number of credits awarded cannot be petitioned. UAA courses not on the approved baccalaureate GER list cannot be petitioned to meet a GER.

REGISTRATION

Registration is the process of signing up and paying for classes for a particular semester. Students may attend classes in a course offered at UAA only after they have properly completed the registration process for that course. Class offerings, dates, times, deadlines and other important registration details specific to each semester are published in that semester’s class listing. Not every course listed in this catalog is offered each semester.

Students may register in person or use the UAOnline web registration system during the dates published in that semester’s class listing. Noncredit, continuing education unit (CEU), and professional development (500-level) courses have special registrations; interested students are advised to contact the appropriate school or college for more information.

For fall and spring semesters, a two-week add/drop period begins on the first day of the semester. Registration for semester-length courses is not permitted after the second week of the semester. Even if students have been attending class from the beginning of the course, their registration will not be accepted after the registration deadline.
The university holds students academically and financially responsible for their registration. Students who change their plans or become unable to attend must officially drop or withdraw from their courses within published deadlines in order to avoid a final grade of F for nonattendance. Courses must be dropped within the 100 percent refund period to avoid tuition assessment. Refer to the academic calendar at www.uaa.alaska.edu/records/calendar.cfm for specific deadlines. Deadlines will be prorated for trimester courses or courses with dates other than the traditional full semester length. Calculate course prorate dates at www.curric.uaa.alaska.edu/registration/prorate.

Students may adjust their schedules and add or drop courses throughout the add/drop period. Some courses may require instructor approval for this activity. Caution: Dropping or auditing courses may affect eligibility for current and future financial aid. Students receiving financial aid should check with the UAA Office of Financial Assistance and Information before dropping or auditing a course. (See Chapter 4, Tuition, Fees and Financial Aid, for further information.)

All students should meet with a faculty or academic advisor prior to registering each semester. Advising can help students clarify their goals, make suitable course selections, and understand academic expectations. However, the student is ultimately responsible for meeting university requirements.

**OFFICIAL COMMUNICATION**

All communication related to registration and enrollment activities will occur through the official UAA-assigned email. Students should be careful to keep this account clear and review the correspondence received there regularly.

**REGISTRATION BY PROXY**

Students unable to register in person may have a proxy register for them if they provide the proxy with a signed Registration by Proxy Form. This form is available online or from the University Center One-Stop. The proxy must follow the policies and calendar governing registration. Proxy registrations are not accepted without written permission from the student.

**FACSIMILE (FAX) TRANSMISSION**

Documents sent via fax are held to the same dates and deadlines and are processed after original documents. Documents received after 5 p.m. are considered as being received by the following business day. Faxes are not guaranteed nor will they be confirmed. Students and departments are encouraged to retain the record of transmission.

**BIOGRAPHIC/DEMOGRAPHIC INFORMATION**

UAA must comply with state and federal reporting requirements and therefore requires that students provide specific biographic or demographic information on registration or admission forms. The university uses the information for statistical purposes and as an identifier for university records. This information is relevant to the university’s admission and enrollment policies. The university does not discriminate on the basis of this information.

**CHANGE OF NAME**

A student's name on official records at UAA must be the student's full legal name. A Change of Name form may be processed through the Office of the Registrar and must be supported by legal documentation, i.e., Social Security card, driver’s license, or a court order. Employees of UAA (past or present) must present their Social Security card.

**CHANGE OF ADDRESS**

Currently enrolled students may update their address through UAOnline or by completing the appropriate form. Official notification of change of address is necessary for accurate mailing of correspondence, transcripts, and information about graduation requirements.

**SOCIAL SECURITY NUMBER**

The University of Alaska has established student identification numbers and moved away from the practice of using Social Security numbers as default ID numbers. The university is still required to collect a valid Social Security number from each student for IRS, employment, and federal financial aid purposes. The Social Security number will be included on official for identification matching purposes.

**REGISTRATION CHANGES**

It is the responsibility of the student to become familiar with UAA policies, procedures and deadlines. Refer to the academic calendar at www.uaa.alaska.edu/records/calendar.cfm for specific deadlines. Add, drop, withdrawal, credit/no credit, and audit deadlines for trimester courses and courses other than full semester-length will be prorated according to the length of the class. Students are expected to register only for course sections which they plan to attend and to complete all courses for which they register. (See the Table for Add/Drop, Withdrawal, Credit/No Credit and Audit in this chapter for more information.)

**FACULTY SIGNATURE**

Some course descriptions include “Instructor Permission” as a prerequisite. Students must obtain the permission of the faculty member instructing the course section or their designee, or appropriate approval before registering.

**AUDITING CLASSES**

Audit registrations are on a space-available basis. Auditors may be dropped from a class to make room for credit-seeking students. No credit is received for audited courses. Requirements for auditing the course are determined by the faculty. Faculty may withdraw students if they fail to comply with the agreed-upon terms.

Students who audit courses are required to meet prerequisites, register, and pay the same tuition as those who take the courses for credit. During the first and second weeks of the semester, audit-to-credit requires faculty signature. Audit-to-credit changes are not allowed after the second week of the semester. During weeks three through 12 of the semester, credit-to-audit changes require faculty signature. Credit-to-audit changes are not allowed after week 12 of the semester.

Audited courses are not included in the computation of study load for full-time or part-time status. In addition, students may not request local credit-by-examination for an audited course until the following academic year.

**CONTINUOUS REGISTRATION**

Continuous registration is expected of graduate students. (See Chapter 12, Graduate Programs, for further information.)

**CANCELLATION OF CLASSES**

UAA reserves the right to cancel or combine classes; to change the time, dates, or place of meeting; or to make other necessary revisions in class offerings. The university may discontinue a class at any time if enrollment falls below expected levels. Students may not be notified, so it is advisable to check their schedules regularly.

**CREDIT REQUIREMENTS**

Transfer credit equivalents vary among semester, unit and quarter universities. Courses that differ from equivalent UAA courses by less than one credit are equated to UAA courses and meet UAA course requirements without requiring a petition. To complete credit requirements where transfer course credits differ from UAA credits by more than 1.00 credit, students can either take another UAA class or request an Academic Petition from the academic advisor. Refer to the Certificate of Admission for academic advisor contact information. It is ultimately the responsibility of students to ensure that they complete the total number of credits required for their degrees.
COURSE PERFORMANCE
Successful performance in individual courses contributes to overall satisfaction with the educational experience at UAA and ultimately will provide for successful completion of a course of study or degree.

Faculty members design course activities that assist students to acquire, comprehend, and apply knowledge and skills in a variety of subject areas. The course syllabus is designed to provide information about the structure of the course and methods of determining successful course completion.

In order to evaluate student learning, grades are assigned by faculty to individual students that indicate achievement of course objectives. Student behaviors such as class attendance, class participation, completion of all assignments, and achievement of passing marks on all graded activities are the foundation for success of the student.

CLASS ATTENDANCE
Regular attendance and active participation are expected in all classes. Students are responsible for class work even if there are legitimate reasons for their absence.

Unexcused absences may result in a student being withdrawn from the class or receiving a failing grade. Unreasonable refusal to accommodate an emergency absence or an official university absence as described below may be appealed under the Academic Appeals Process.

OFFICIAL UNIVERSITY ABSENCES
Students participating in official intercollegiate activities on behalf of UAA, including but not limited to competition in athletics, forensics and performing arts, are responsible for making advance arrangements with faculty members to enable them to meet course requirements. Faculty are encouraged to make reasonable accommodations for such students. In some cases accommodation may not be possible.

STUDENT-INITIATED DROP OR WITHDRAWAL
Students may drop a class according to the information found in the online class schedule each semester. Deadlines are determined by the start date of the class and usually occur within the first two weeks of class (for fall and spring semesters), prorated for trimester courses and courses other than the full semester length. No grade will be issued for classes dropped by the deadlines.

Some courses at UAA are offered in a trimester format. Students should be aware that published deadlines apply only to the traditional semester. Students may use the prorate calculator to determine trimester deadlines.

After the last deadline for dropping a class, students may withdraw from the class through the twelfth week of class (for fall and spring semesters), prorated for trimester courses or courses other than the full semester length. This will produce a designation “W” for the course on the cumulative transcript. After such a withdrawal, an academic grade for the course may only be obtained by retaking the course. No tuition is returned to students who withdraw from a class.

FACULTY-INITIATED DROP OR WITHDRAWAL
A faculty member may initiate a drop or withdrawal from a class of a student who fails to meet published individual course requirements (see next paragraph). A student who fails to attend class within the first seven calendar days of the semester is also eligible for this action. The deadlines for faculty-initiated drop or withdrawal are the same as for student-initiated drop or withdrawal.

The requirements which a student must meet include all catalog pre- or co-requisites for the course, as well as other registration restrictions, and attendance requirements established for the class. Faculty may initiate a withdrawal for a student in audit status for a class according to criteria for audit status distributed in the class syllabus.

Faculty are not obligated to initiate drops or withdrawal for any reason. Students who need to be excused from first-week attendance must contact the faculty member and receive permission before the first class meeting of the semester.

PARTICIPATION AND PREPARATION
Preparation for a class begins by having the necessary prerequisites for the class and obtaining appropriate advising and counseling regarding enrollment in a class. Active participation in the class necessitates a willingness to prepare for classes by reading materials assigned for the class in either print or electronic format, participating in classroom discussion and asking questions of the instructor about material presented. Participation includes a willingness to evaluate the class in a constructive manner at the completion of the course.

COURSE MATERIALS
Having access to the materials assigned for the course improves success in a course. Therefore, it is the student’s responsibility to have available all the materials, books, and notes for the course.

If materials are in an electronic format, students are responsible for accessing them through personal computers or in the computer labs on campus.

ASSIGNMENTS AND TESTING
Students should be aware of specific assignments, the scope of the assignments, due dates, grading criteria, and the application of the assignment to the course grade. Students should clarify these points with the faculty member prior to submitting the assignment for grading.

Students should be aware of testing policies as written in the course syllabus. Students are responsible for arranging alternate testing times and accommodations with faculty members, if they are allowed these options, prior to the test date. This includes needs for Disability Support Services and absences on the day of the examination for illness or family issues. Students should clarify how to address alternate testing with the individual faculty member prior to the first examination.

SYLLABUS AND COURSE PROCEDURES
The course syllabus is the student guide to the course. Students should receive a syllabus at the beginning of each course that describes the course, policies within the course, and procedures that govern the delivery of the course.

Students are responsible for obtaining the syllabus, or for having access to it electronically, and understanding the course policies in the syllabus. Any questions regarding information in the syllabus should be directed to the instructor for clarification.

COURSE COMPLETION
GRADING
The grades that appear on a student’s transcript are as follows:

ACADEMIC LETTER GRADES
With the exception of letter grades assigned to 500-level professional development courses, these letter grades carry grade points and are used to calculate GPAs.

A Honor grade; indicates comprehensive mastery of required work
B Indicates high level of performance in meeting course requirements
C Indicates satisfactory level of performance
D Indicates lowest passing grade; may not be acceptable to satisfy requirements in certain majors and in graduate programs
F Indicates failure
The following registration activity deadlines pertain to traditional semester-length courses (15 weeks). Deadlines for courses more or less than semester-length, or trimester courses, are pro-rated according to the length of the course. Students are not permitted to drop or withdraw from a course after it has ended.

### ADD/DROP, WITHDRAWAL, CREDIT/NO CREDIT, AND AUDIT (Traditional semester-length courses):

<table>
<thead>
<tr>
<th>Desired Change</th>
<th>Week 1 of Semester</th>
<th>Week 2 of Semester</th>
<th>After Week 2 of Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADD CLASSES OR LATE REGISTER</td>
<td>Faculty signature required if course closed.</td>
<td>Faculty signature required.</td>
<td>Not permitted.</td>
</tr>
</tbody>
</table>

**Please go to [www.uaa.alaska.edu/records/calendar.cfm](http://www.uaa.alaska.edu/records/calendar.cfm) for specific dates.**

<table>
<thead>
<tr>
<th>Desired Change</th>
<th>Begin 7th calendar day of Semester through Week 2 of Semester DROP</th>
<th>Weeks 3 through 12 of Semester WITHDRAWAL</th>
<th>After Week 12 of Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>FACULTY INITIATED DROP OR WITHDRAWAL (OPTIONAL)</td>
<td>Form filed by faculty member with the Office of the Registrar. Course will not appear on student transcript.</td>
<td>Form filed by faculty member with the Office of the Registrar. Course will appear on student transcript with a grade of “W.”</td>
<td>Not permitted.</td>
</tr>
</tbody>
</table>

**Please go to [www.uaa.alaska.edu/records/calendar.cfm](http://www.uaa.alaska.edu/records/calendar.cfm) for specific dates.**

<table>
<thead>
<tr>
<th>Desired Change</th>
<th>Weeks 1 through 2 of Semester DROP</th>
<th>Weeks 3 through 12 of Semester WITHDRAWAL</th>
<th>After Week 12 of Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>DROP OR WITHDRAW</td>
<td>No faculty signature required. Course will not appear on student transcript. Students are not permitted to drop or withdraw from a course after it has ended.</td>
<td>No faculty signature required. Form filed with the Office of the Registrar. Courses will appear on student's transcript with a grade of “W.”</td>
<td>Not permitted.</td>
</tr>
</tbody>
</table>

**Please go to [www.uaa.alaska.edu/records/calendar.cfm](http://www.uaa.alaska.edu/records/calendar.cfm) for specific dates.**

<table>
<thead>
<tr>
<th>Desired Change</th>
<th>Weeks 1 through 2 of Semester DROP</th>
<th>Beginning Week 3 of Semester WITHDRAWAL</th>
<th>Beginning of Final Exam Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL WITHDRAWAL FROM UNIVERSITY</td>
<td>No faculty signature required. Form filed with the Office of the Registrar. Courses will not appear on student's transcript.</td>
<td>No faculty signature required. Form filed with the Office of the Registrar. Courses will appear on student's transcript with a grade of “W.”</td>
<td>Students are not permitted to drop or withdraw from a course after it has ended.</td>
</tr>
</tbody>
</table>

**CHANGE IN GRADING OPTION**

The grading option for a course may be changed as follows:

<table>
<thead>
<tr>
<th>Desired Change</th>
<th>Weeks 1 through 2 of Semester</th>
<th>Weeks 3 through 12 of Semester</th>
<th>After Week 12 of Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CREDIT/NO CREDIT</td>
<td>Form filed with the Office of the Registrar.</td>
<td>Not permitted.</td>
<td>Not permitted.</td>
</tr>
<tr>
<td>CREDIT TO AUDIT</td>
<td>Faculty signature required. Form filed with the Office of the Registrar.</td>
<td>Not permitted.</td>
<td>Not permitted.</td>
</tr>
<tr>
<td>AUDIT TO CREDIT</td>
<td>Faculty signature required. Form filed with the Office of the Registrar.</td>
<td>Not permitted.</td>
<td>Not permitted.</td>
</tr>
</tbody>
</table>
NON-ACADEMIC GRADES
These grades do not carry grade points and are not used to calculate GPAs. However, CR, NC, P, and NP grades may be used to determine satisfactory academic progress.
- CR Indicates credit received for course
- NC Indicates no credit received for course
- DF Deferred indicates course requirements cannot be completed by end of semester. It is to be used for courses which cannot normally be completed in a semester (such as thesis, project, research, internships, etc.).
- I Incomplete; indicates additional work must be completed to receive a final grade. If the course work is not completed within one year and the faculty member does not submit a change of grade at that time, the I will become a permanent grade.
- P Indicates passing work
- NP Indicates work that is not passing (no credit received)

OTHER DESIGNATIONS
These designations do not carry grade points and are not used to calculate GPAs.
- AU Audit; indicates enrollment for information only; no credit received.
- W Indicates withdrawal from course.

CREDIT/NO CREDIT
Credit/no credit is a grading option that encourages students to explore areas of interest. Undesignated electives may be completed under this option. A maximum of 15 credits earned by this option may be applied to an associate’s or baccalaureate degree.

This option may not be used in courses that meet General Education Requirements (GER), or major or minor requirements in a student’s program. If students later change their major/minor and the course becomes a requirement, the course may be accepted in the new major/minor at the discretion of the new department.

The CR/NC option is not available for graduate courses, nor can this option be used on courses repeated for GPA improvement.

The instructor grades students using the grading basis approved for the course (A-F or P/NC). Students are awarded credit for the course if their final grade is P or C or higher. A grade of CR is entered on the student’s transcript.

For performance comparison only, a grade of CR (Credit) is considered equivalent to a grade of C or higher. A grade of CR does not carry grade points and is not included in GPA calculations.

Through the end of week two of the semester, students may request the CR/NC grading option by submitting the necessary paperwork to the Office of the Registrar. Once selected, this grading option may not be changed to regular grading after the end of week two of the semester.

DEFERRED GRADE
A deferred grade (DF) is used when the student is making satisfactory progress, but completion of the course project (such as thesis, project, research courses, internships, etc.) typically requires more than a semester. Credit is withheld, without academic penalty, until the course requirements are met. If coursework is not completed prior to fulfilling graduation requirements or if the student fails to maintain enrollment for one year, the DF will become a permanent grade and it will be necessary for the student to re-register to obtain credit for the course.

INCOMPLETE GRADE
An incomplete grade (I) is assigned only at the discretion of the instructor. It is used to indicate that a student has made satisfactory progress in the majority of the work in a course, but for unavoidable absences or other conditions beyond the control of the student, has not been able to complete the course. The Incomplete Grade Contract, a contract form between the student and the faculty member that stipulates the assignment(s) required to finish the course, is required and must be completed and filed with the department or dean’s office before an I grade is assigned. Coursework must be completed by a date specified in the contract, not to exceed one year. Upon completion of the required course work, the faculty member must submit a Change of Grade form to the Office of the Registrar. If coursework is not completed within one year or if the terms specified on the Incomplete Contract are not met, the student may be assigned a failing grade (F or NP, depending on the grading basis of the course). If coursework is not completed within one year and the faculty member does not submit a Change of Grade form at that time, the I will become a permanent grade and it will be necessary for the student to re-register to obtain credit for the course.

PASS/NO PASS
In some courses, students are graded pass/no pass. This grading system is established at the time the course is approved and must apply to the class as a whole. Pass/no pass grading is not a student option.

When a course is graded Pass/No Pass, the faculty member must clearly explain this fact to the students at the beginning of the class.

For performance comparison only, a grade of P (pass) is considered equivalent to a grade of C or higher in undergraduate courses and a grade of B or higher in graduate courses. Pass/no pass grades are used to determine satisfactory academic progress. However, P/NP grades do not carry grade points and are not used in GPA calculations.

GRADE CHANGES
Grades submitted by the faculty, other than incomplete (I) or deferred (DF), are assumed to be final grades. A grade may not be changed unless a grading error, such as a mathematical miscalculation or inaccurate recording has been made on the part of the faculty member. Corrections of grading errors must be made by the last class day of the next regular semester following the one in which the grade was originally assigned. A Change of Grade form must be submitted to the Office of the Registrar by the appropriate faculty member. Change of Grade forms will not be accepted if submitted by the student. Allegations of final grading errors or arbitrary and capricious grading for a final grade assignment are reviewed according to the Academic Dispute Resolution Procedure (See Chapter 5, Student Freedoms, Rights, and Responsibilities, for further information).

GRADE POINT AVERAGE COMPUTATION (UAA GPA)
UAA uses the 4-point system as a measure of scholastic success. Academic letter grades carry the following values:

- A = 4.00
- B = 3.00
- C = 2.00
- D = 1.00
- F = 0.00

A quality hour (Q Hrs) is defined as one credit hour for a course graded A-F. For each course the student takes with quality hours, that number of quality hours for the course is multiplied by the point value of the grade to give the total grade points (Q Pts) for that course. The sum of the total grade points for all courses is then divided by the total number of quality hours to compute the grade point average (GPA).

For example, a student who took three courses and earned an A for a three-credit course, a C for a one-credit course, and a P (Pass) for a two-credit course would have a total of four quality hours. The total grade points for the first course would be 12 points and for the second would be two points. The GPA would be calculated by dividing the sum of 12 and 2 by 4, the number of quality hours, to determine a GPA of 3.50.
Non-academic grades do not carry grade points and are not used in calculating the GPA: CR, NC, DF, I, P, NP, and letter grades assigned to 500-level courses. In addition, AU and W are not grades and are not used in GPA calculations.

Credits accepted in transfer are not used to calculate the student’s UAA GPA. They are, however, used to calculate the student’s overall GPA for graduating with honors. Grades and credits earned from all retaken courses are also included in calculating the student’s GPA for graduating with honors.

**Academic Standing**

**Good Standing**
Undergraduate students are in good standing when they have a UAA cumulative GPA of 2.00 or higher and a semester GPA of 2.00 or higher for the most recently completed semester. Individual departments may establish additional criteria for good standing. Students are presumed to be in good standing during their first semester at UAA. Students in good standing are academically eligible to re-enroll at UAA.

**Academic Action**
Admitted certificate, associate’s, or baccalaureate degree-seeking students who fail to earn a UAA semester and/or cumulative GPA of 2.00 will be subject to academic action. Academic action may result in warning, probation, continuing probation, or loss of certificate or undergraduate degree-seeking status. Individual departments may establish additional criteria for departmental academic action. Failure to meet or maintain these criteria may result in departmental probation or removal from a major program.

**Warning**
Academic Warning is the status assigned to those students whose semester GPA falls below 2.00 but whose cumulative GPA is 2.00 or higher.

**Probation**
Placed on Probation is the status assigned to those students whose semester and cumulative GPA falls below 2.00.

**Continuing Probation**
Continued on Probation is the status assigned to those students who begin a semester on probation and during that semester earn a semester GPA of 2.00 or higher without raising their cumulative GPA to 2.00. This status may be continued until the student raises their cumulative GPA to 2.00 or loses their certificate or undergraduate degree-seeking status.

**Academic Disqualification**
Academic Disqualification is the status assigned to those students who begin a semester on probation and fail to earn a semester GPA of 2.00. Those students’ admission status will be changed to non-degree-seeking. Students who have lost certificate or undergraduate degree-seeking status may continue to attend UAA as non-degree-seeking students. However, those students do not qualify for financial aid and international students will lose their immigration status. Students must apply for reinstatement to UAA (see reinstatement policy below).

**Reinstatement**
Students who have lost certificate or undergraduate degree-seeking status may continue to attend UAA as non-degree-seeking students. After completing a minimum of 12 credits at UAA and/or another regionally accredited post-secondary institution in 100-level or higher courses with a GPA of 2.00 or higher, students may apply for reinstatement to UAA. If approved, reinstated students must then reapply for admission to a certificate or undergraduate degree program.

A reinstated student whose UAA cumulative GPA is less than 2.00 (C) will begin the semester on probation. Application for Reinstatement forms are available from University Center One-Stop.

**Departmental Probation or Removal from a Major Program**
Individual departments may establish additional criteria for departmental academic action. Failure to meet or maintain these criteria may result in departmental probation or removal from a major program. Those students’ major program will be changed to undeclared. Students will remain in a certificate or undergraduate degree-seeking status as long as the university’s minimum academic standards are met. Undeclared students must use the Change of Major/Degree form and process to request re-admission or admission to a new program. Forms are available online or from the University Center One-Stop.

**Academic Eligibility for Student Activities**
Students with satisfactory academic performance are eligible for participation in intercollegiate competition or co-curricular activities. Students may not participate in intercollegiate competition or co-curricular activities or student employment if their cumulative GPA falls below 2.00 (C). Additional and higher academic standards may be required by certain specific activities. Students are advised to keep their participation in activities outside the classroom within limits that will allow them to achieve satisfactory academic performance.

**Honors Lists**
Admitted undergraduate degree/certificate-seeking students maintaining exceptional academic achievement are recognized after the fall, spring, or summer semesters on the Dean’s List and the Chancellor’s List. Names of students appearing in the UAA Dean’s List and the Chancellor’s List may be released to the media.

**The Dean’s List**
To be eligible for Dean’s List, a student must be an admitted undergraduate degree/certificate-seeking student enrolled in at least 12 UAA credits graded with academic letter grades and must have earned a GPA of at least 3.50 for the semester. Regardless of the number of credits a student is enrolled in, temporary grades of I (incomplete) or DF (deferred) will prevent a student from being eligible for the Dean’s List.

**The Chancellor’s List**
To be eligible for Chancellor’s List, a student must be an admitted undergraduate degree/certificate-seeking student enrolled in at least 12 UAA credits graded with academic letter grades and must have earned a GPA of 4.00 for the semester. Regardless of the number of credits a student is enrolled in, temporary grades of I (incomplete) or DF (deferred) will prevent a student from being eligible for the Chancellor’s List.

**Program Completion**

**Graduation Application**
This policy is currently under review. Please see the Office of the Registrar website at www.uaa.alaska.edu/records for current information regarding graduation and the posting of degrees.

UAA issues diplomas three times a year: in January following the fall semester, in May following the spring semester, and in September following the summer session. To be eligible for graduation at the end of a given semester, a student must:

- Be formally admitted to the degree or certificate program during the previous semester;
- Submit an Application for Graduation signed by the academic advisor and accompanied by the required fee to the Office of the Registrar.
Application for Graduation deadlines are March 1 for summer graduation, May 1 for fall graduation and September 15 for spring graduation.

Upon receipt of the student’s Application for Graduation, a review is completed by the Office of the Registrar. If the student meets all requirements by the end of the semester, the certificate or degree is awarded after completion of the semester. Students are held responsible for meeting all academic regulations and degree/certificate requirements.

Occupational endorsement certificates are awarded by the offering academic unit, rather than at commencement. Students should check with their advisors to determine what arrangements are followed.

Names of students receiving undergraduate certificates and degrees appear in the commencement program in the spring and are released to the media unless a directory hold has been placed on the student account.

Students who apply for graduation and who do not complete their degree/certificate requirements by the end of the semester in which they have been approved to graduate, but are within six credits of completion, will have their application request changed to the following semester by the Office of the Registrar. This courtesy change will be granted one time. Students with more than 6 outstanding credits of requirements remaining, or who have 6 credits or fewer remaining for a second semester, must reapply for graduation and pay another application fee.

**GRADUATION WITH HONORS**

To be eligible to graduate with honors, associate’s and baccalaureate degree-seeking students must first earn a cumulative GPA of 3.50 or higher in all college work attempted at UAA. A transfer student who is earning an associate's degree must complete a minimum of 15 resident credits with academic letter grades to be eligible to graduate with honors. A transfer student who is earning a baccalaureate degree must complete a minimum of 30 resident credits with academic letter grades to be eligible to graduate with honors.

All transfer students must have a cumulative GPA of 3.50 or higher in all college work attempted both at UAA and at all other accredited institutions attended and for all courses used to fulfill the degree program in order to graduate with honors. At UAA, graduation with honors represents the students’ entire academic history. All grades and credits earned will be included in determining eligibility to graduate with honors (Ds, Fs, retaken courses, courses lost in academic bankruptcy, etc). Honors are awarded to associate's and baccalaureate degree students with cumulative GPAs as follows:

- **Cum Laude** 3.30 to 3.79
- **Magna Cum Laude** 3.80 to 3.99
- **Summa Cum Laude** 4.00

**COMMENCEMENT**

Students who complete certificate or degree requirements for summer and fall and who anticipate completion in spring semester during an academic year are invited to participate in the annual commencement ceremonies in May.

**EXCEPTION TO UNIVERSITY POLICY FOR RECORDS AND REGISTRATION**

A student, or person with legal authority to act on behalf of a student, may petition for an exception to university policy for records and registration. Petitions are not automatically granted, but will be considered in light of the criteria set out below and individual circumstances, as demonstrated in the documentation provided.

1. The petitioner must submit to the Exception to University Policy Committee a signed petition and consent to release of information form, which is provided for this purpose. The form and petition must be submitted to the University of Alaska Anchorage Office of the Registrar, University Center, P.O. Box 141629, Anchorage, AK 99514-1629.

2. Only petitions submitted by the student or by a person with legal authority to act on behalf of the student will be considered.

3. A petition for exception must be received no later than one year following the semester in which the course was offered. Petitions that are not received within this time frame may not be considered.

4. Decisions will be made solely on supporting documentation provided.

5. A petition will only be approved if the petitioner can demonstrate unanticipated and unavoidable circumstances beyond the student’s control that arose or came to light after published deadlines. Work-related issues, financial hardship, and failure to read UAA’s documents generally do not present justifiable reasons to support an exception request.

6. Granting of an exception to policy for withdrawal or dropping of courses does not necessarily mean a refund of tuition. Refund requests are forwarded to the Petition for Refund Committee for further review. Refunds for self-support classes are generally not allowed.

7. Student fees are mandated by the Board of Regents are cannot be petitioned for refund.

8. Petitions will be reviewed periodically and the number of petitions being reviewed will determine the time for response. A minimum of six to eight weeks should be allowed for review.

9. Appeals of an adverse decision by the committee must be in writing, must state the basis for the appeal, and must be received by the registrar within 10 working days of the day the decision is mailed or otherwise distributed to the student. Appeals should be based on new information not available at the time of the original review, not simply because the student disagrees with the decision reached. Appeals may be faxed, delivered in person, or mailed to: Office of the Registrar, University Center, University of Alaska Anchorage, P.O. Box 141629, Anchorage, AK 99514-1629.

Complaints about dissatisfaction with academic courses, methods of course delivery or instructor performance are not considered under this process. Depending on the nature of the complaint, these matters are considered according to the Student Dispute/Complaint Resolution Process or the Academic Dispute Resolution Procedure, which can be found in the UAA Fact Finder/Student Handbook at www.uaa.alaska.edu/studentaffairs/Fact-Finder.cfm.
Educational Delivery Methods & Nontraditional Credit

Educational Media Services (eMedia)
Distance Education Gateway
Military Programs
Nontraditional Credit
Many different technologies are used to deliver distance education. Most computer component to them. conferencing components, so it is important to check the technological and a reliable Internet connection. Some courses have audio or eLive Every UAA distance education course requires that you have a computer and are unable to attend classes on campus. Students must possess high motivation and self-discipline in order to successfully complete distance courses. Distance courses may apply toward UAA degree programs in the same way as on-campus courses. No distinction is made on a student's transcripts between distance and on-campus courses. Most distance courses are delivered along the same semester timeline as on-campus courses. Every UAA distance education course requires that you have a computer and a reliable Internet connection. Some courses have audio or eLive conferencing components, so it is important to check the technological requirements of a distance course before registering. All courses have a computer component to them. Many different technologies are used to deliver distance education. Most courses use a combination of the following:

- Audio conferencing
- Elive conferencing
- Streaming media
- Web-based instruction

Student quizzes, tests, and examinations are administered at remote testing sites such as public schools, libraries, or community testing centers. Students are required to contact an approved proctor at an assigned location before taking an examination. UAA students enrolled in distance learning courses from other institutions may arrange to have exams proctored at the Advising and Testing Center for a proctor fee of $30. For more information, please contact a representative with Distance Education Services.

The Distance Education Gateway provides access to current course information for distance-delivered classes throughout the University of Alaska system. Contact information is available for each of the university campuses to assist in registering for a course.

The University of Alaska is committed to making education available to the distributed population of the state by extending its reach to students through the diverse offering of distance-delivered courses supported by the various UA campuses around the state.

Postsecondary education programs for active duty military personnel, dependents of active duty personnel, Department of Defense employees, and civilians at military bases are offered throughout the state. Major military bases and corresponding military education centers at UAA include Elmendorf Air Force Base and Fort Richardson Army Post.

Program offerings range from classes in support of an Associate of Arts to a Master of Public Administration. Enlisted personnel benefit from UAA's membership in the Servicemembers Opportunity College Network where training and experience are evaluated for applicable credit and degree completion is possible despite a duty change. Classes are delivered via traditional classroom instruction, videotape course delivery, and live interactive satellite delivery.

The education center on Elmendorf Air Force Base, located five miles north of Anchorage, offers degree programs including the Associate of Arts, the Bachelor of Business Administration, the Bachelor of Arts in Interdisciplinary Studies, the Bachelor of Science in Technology, the Master of Arts in Interdisciplinary Studies, and the Master of Public Administration. Day, evening and weekend classes are taught during regular 15-week semesters, as well as 8-week sessions.

The education center, situated seven miles northeast of Anchorage on Fort Richardson Army Post, offers degree programs including the Associate of Arts, the Bachelor of Arts in Interdisciplinary Studies, the Bachelor of Science in Technology, the Master of Arts in Interdisciplinary Studies, and the Master of Public Administration. Day, evening and weekend classes are taught during regular 15-week semesters, as well as 8-week sessions.
NONTRADITIONAL CREDIT

Nontraditional credit evaluations are available for accepted degree-seeking UAA students. Documenting military or occupational training, taking local or national examinations, are some of the methods used. The specific processes are listed below.

LANGUAGE CREDIT BY PLACEMENT

An accepted, degree-seeking UAA student who has completed in residence a Department of Languages UAA catalog course (A102-A302) with a grade of B or better is eligible to receive credit for the two immediately preceding courses, if any, up to a total of 8 credits. This policy does not apply to credit earned through the College Board Advanced Placement Examination Program, nor to special topics ( _93), independent study ( _97), Language Self-Study (LANG prefix), or Department of Languages literature or culture courses. In order to receive credit, the student must complete the appropriate form from the Office of the Registrar and pay an administrative fee.

CERTIFIED EXPERIENCE CREDIT

This program allows crediting of certified, but not accredited, institution-sponsored learning. With documentation, the university may award elective credit or specific course credit.

National/state/local certificates: Persons who have met certain standards and/or passed certain tests may be awarded academic credit. Credit agreements are currently in effect for the following:

- Alaska State Troopers
- Anchorage Police Department
- Apprenticeship Technologies
- Certified Dental Assistant (CDA) by Dental Assisting National Board Examination (DANB)
- Certified Professional Legal Secretary (CPLS) Examination
- Certified Professional Secretary (CPS) Examination
- Child Development Certificate
- Federal Aviation Administration
- Federal Wildland Fire Management Training Program
- Firefighter Certifications (IFSC)
- Industrial Firefighter Certifications
- National Council Licensure Examination (NCLEX)
- National Occupational Competency Testing Institute (NOCTI) Examination
- NWCG Certifications
- Protection Engineers and Fire Protection Systems
- Southcentral Foundation Dental Assisting Training Program
- State of Alaska EMT/Paramedics
- State of Alaska Firefighter Certifications
- U.S. Department of Labor Bureau of Apprenticeship and Training

Business or industry credit: Recommendations for business or industry credit equivalents are found in the American Council on Education’s National Guide. They cover courses or formal instruction offered by businesses, government agencies, labor unions, and professional or voluntary associations.

LOCAL CREDIT BY EXAMINATION

Accepted, degree- or certificate-seeking students may be awarded credit through locally developed comprehensive examinations on specific subjects. However, credit by examination is not available for all courses. Applications for and information on specific courses available through local credit by examination may be obtained from departments or the local UAA Advising and Testing Center. There is a fee charged for local credit by examination.

General criteria for local credit by examination include:

1. Courses with numbers below 100 may not be taken through credit by examination.
2. Only regular catalog courses may be challenged. Special topics courses, trial courses, independent study courses, and practicum courses may not be taken through credit by examination.
3. When an appropriate examination exists, CLEP, DANTES, ACT-PEP, or other national examinations may be administered instead of a local examination.
4. Determination of which courses may be taken through local credit by examination and construction of the examinations is at the discretion of the appropriate department.
5. Local credit by examination is not awarded for a course that duplicates one for which credit has already been granted.
6. Students are awarded credit and a grade of P (Pass) if they successfully pass the local examination. If the examination is not passed, the course is not recorded on the student’s transcript. Grades for courses taken through local credit by examination do not carry grade points used in calculating student GPAs.
7. Credit awarded through local credit by examination is considered nonresident credit.
8. There is no limit to the number of credits which may be acquired through the local credit by examination process.
9. Students have one year from the date of application to take the local examination.
10. Students may not request local credit by examination for an audited course until the following academic year.

MILITARY CREDIT

Up to 8 elective credits may be awarded to students who have completed one calendar year of active duty military service.

In addition, credits may be granted for formal service schools and the primary MOS/Rating as recommended in the Guide to the Evaluation of Education Experiences in the Armed Services prepared by the American Council on Education.

No more than 15 semester credits may be applied toward an associate’s degree and no more than 30 semester credits may be applied toward a baccalaureate degree. Exceptions are granted only to students enrolled in the SOC programs.

The Servicemembers Opportunity Colleges (SOCAD, SOCMAR, SOCOAST, and SOCNNA) program allows active-duty personnel to finish approved associate and baccalaureate degree programs without losing credits as they transfer during their military careers.

Eligibility for entrance to these programs requires 3 semester credits to be completed in residence at UAA for the associate program and 6 semester credits in residence at UAA for the baccalaureate program. These credits must be 100-level or above with grade(s) of C or higher.

To graduate from these programs, the residency requirement is 3 semester credits for the two-year programs and 24 semester credits for the four-year program and an overall GPA of 2.00.

Please contact the Office of the Registrar at (907) 786-1480 for further information regarding required documentation and forms.

NATIONAL CREDIT BY EXAMINATION

UAA awards credit for satisfactory performance on most national examinations. In most cases, passing scores and credits awarded for the following national examinations are based on the most current American Council on Education recommendations or department-approved scores.

A student desiring credit for a national examination must request that an official report of examination scores be sent to the Office of Admissions at UAA. Credit may be received for more than one national examination.
ADVANCED PLACEMENT PROGRAM (AP®)
UAA awards credit for satisfactory performance for scores of 3, 4, or 5, depending on the individual test on College Board Advanced Placement Examinations. These examinations are normally completed by students during their senior year in high school. A student may receive credit for more than one Advanced Placement examination.

A list of Advanced Placement examinations showing the current equivalency to UAA courses, the number of credits awarded, and the required minimum required scores for each examination may be found online at www.uaa.alaska.edu/records/tce/advancedplacement.cfm

COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)
An official CLEP transcript must be submitted to the Office of Admissions.

Examinations may not be repeated for a minimum of six months. The list of CLEP examinations showing the current equivalency to UAA courses, the number of credits awarded, and the required UAA minimum required scores for each examination may be found online at www.uaa.alaska.edu/admissions/forms.cfm

Credit awarded for CLEP examinations is elective credit. A student may work with an individual department to determine if more specific course credit may be awarded for a specific examination. Students must request that an official report of examination scores be sent to the Office of Admissions. Examinations may not be repeated for a minimum of six months.

DANTES/USAFI EXAMINATIONS
Credit may be awarded for successful completion of the Defense Activity for Nontraditional Education Support (DANTES) examinations. Credit awarded for examinations is elective credit. A student may work with an individual department to determine if more specific course credit may be awarded for a specific examination. An official copy of the DANTES/ USAFI transcript must be submitted to the Office of Admissions. www.uaa.alaska.edu/admissions/forms.cfm

EXCELSIOR COLLEGE EXAMINATION
Credit may be awarded for successful completion of the Excelsior College Examination. Credit awarded for Excelsior examinations is elective credit. A student may work with an individual department to determine if more specific course credit may be awarded for a specific examination. An official copy of the student's examination scores must be sent to the Office of Admissions. www.uaa.alaska.edu/admissions/forms.cfm

INTERNATIONAL BACCALAUREATE
UAA awards credit for satisfactory performance (a score of 5 or higher), on the International Baccalaureate Higher Level Examinations. An official copy of the student's higher level examination scores must be sent to the Office of Admissions.

NATIONAL OCCUPATIONAL COMPETENCY TESTING INSTITUTE (NOCTI) EXAMINATION
(907) 786-6400
NOCTI tests may be used to document competency in various occupational fields (e.g., Electronic Communication, Welding, Diesel Mechanic) as an option for students who want to enter certain Community and Technical College (CTC) degree programs. Successful completion of the NOCTI test may result in awarding students up to 30 semester credits toward the technical competency requirement of the applicable AAS degree. Completion of the technical competency requirements is accomplished as prescribed by the applicable CTC department. A fee is charged. Applicants may call for further information.
ACADEMIC PREPARATION

COLLEGE PREPARATORY & DEVELOPMENTAL STUDIES (CPDS)
(907) 786-6856
www.uaa.alaska.edu/ctc/cpds

The mission of the department is to help underprepared, linguistically diverse, and nontraditional students develop the academic and language skills necessary to pursue successfully their life-long learning goals. The department offers composition, English-as-a-Second Language (ESL), mathematics, reading, and study skills courses that prepare students for further study. The department uses placement and retention advising, tutoring, and a developmental teaching philosophy to help students succeed.

For more information about CPDS, see Undergraduate Programs in the Community and Technical College section of Chapter 10.

PROFESSIONAL DEVELOPMENT AND CONTINUING EDUCATION

COLLEGE OF EDUCATION

PROFESSIONAL AND CONTINUING EDUCATION (PACE)
(907) 786-1933
http://coe.uaa.alaska.edu/pace
pace@uaa.alaska.edu

Quality professional learning enriches the knowledge and skills of educators and improves the educational experiences of all students. Therefore, the office of Professional and Continuing Education partners with UAA academic units, schools, professional societies, and other organizations to support learning opportunities such as 500-level courses and academies. The flexible structure of PACE allows for rapid response to the dynamic learning needs of educators and related services professionals around the state.

COMMUNITY AND TECHNICAL COLLEGE

WORKFORCE AND PROFESSIONAL EDUCATION (WPE)
(907) 694-3313
www.uaa.alaska.edu/ctc/eagleriver

WPE matches business and individual needs with appropriate CTC resources to deliver high-quality, short-term education and training for professionals in career and technical fields. Programs can be custom-developed for requesting organizations and can include regular credit, noncredit, and continuing education unit (CEU) courses.

CENTERS AND INSTITUTES OFFERINGS

In addition to the college-specific professional development and continuing education courses, several centers and institutes at the university offer courses related to their foci and missions. Curriculum for such courses is approved by the University. Schedules depend on the demand and availability of qualified faculty. They are arranged through the respective center or institute. Some centers and institutes focus on training and are discussed in Chapter 2, Centers and Institutes.

TECH PREP PROGRAM

The Tech Prep Program is a partnership between UAA, secondary school districts, Alaska Vocational Technical Center, Job Corps, and other partnership institutions. It is a program that recognizes technical and related academic preparation and, where possible, work-based learning in a specific career field. It partners secondary education, post-secondary education, labor, and business in a sequential course of study without duplication of coursework that will lead a student to a certificate, credential, apprenticeship, associate’s degree, or baccalaureate degree.

The purpose of the Tech Prep Program is to offer secondary school students and other individuals in a technical field of study an opportunity to receive lower-division college credit toward a UAA certificate or undergraduate degree. Students may receive UAA credit by successfully completing specific courses that have been approved for articulation by UAA. Tech Prep Program articulation agreements use the university’s curriculum standards and measures for articulating coursework from secondary school districts and other partnerships into UAA credit. Motivated, able learners will greatly benefit from this outcomes-based program.

TECH PREP PROGRAM CREDIT (NON-CONCURRENT)

Most students receiving Tech Prep credit are concurrently enrolled in UAA and in the partnership institution. Students who did not concurrently enroll and are requesting Tech Prep credit (up to two years after completion of the partnership course), through the nontraditional transfer credit process, must first apply and be accepted as a certificate or degree-seeking student at UAA, must complete the Tech Prep Request for Nontraditional Transfer Credit, provide UAA with an official partnership transcript reflecting course completion and final grades received in the articulated course, and pay an administrative fee.

UAA reserves the right to reject credit or to require an examination before awarding nontraditional transfer credit.

Only Tech Prep courses completed with a grade of C (2.00) or higher will be considered for nontraditional transfer credit.

Credit awarded through the nontraditional transfer credit process will not be reflected as a concurrent registration in a UAA course and will not be included in the student’s UAA grade-point average (GPA).

Credit will not be awarded for a course that duplicates one for which UAA credit was already received.

There is no limit on the total number of UAA credits a student may receive through the nontraditional transfer credit process. However, there may be limits to the number of those credits that may apply toward a specific degree. Where possible, partnership courses in the Tech Prep Program will be articulated and equated to specific UAA lower-division courses (100- or 200-level). However, some courses may be articulated to UAA lower-division elective credit.
GENERAL INFORMATION

CREDITS
There is no limit on the total number of UAA credits a student may receive through the Tech Prep Program.

UAA credit received through the Tech Prep Program will be considered resident credit. Credit will not be awarded for a course that duplicates one for which UAA credit was already received.

Credit through the UAA Tech Prep Program is generally not included in the computation of study load for UAA full-time or part-time status.

If the Tech Prep Program is delivered collaboratively with UAF and/or UAS, credit from each participating institution will be counted toward fulfillment of residency requirements.

Credit for partnership courses articulated as UAA elective credit will be awarded through the nontraditional transfer credit process.

Students may take advantage of the Tech Prep Program while attending the partnership institution or they may request non-concurrent credit from UAA, through the nontraditional transfer credit process, up to two years after completing the partnership course, providing the courses were articulated and approved at the time of completion. Not all Tech Prep courses are approved for nontraditional transfer credit.
Curriculum
Academic Programs
General University Requirements for Undergraduate Certificates & Associate Degree Programs
Associate of Applied Science Degree Requirements
Multiple Associate Degrees or Concurrent Majors
Double Majors for AAS Programs
Baccalaureate Degrees
Concurrent Baccalaureate Programs
Second Baccalaureate Degree
Interdisciplinary Baccalaureate Degrees
Undergraduate Program Descriptions
THE CURRICULUM

The University of Alaska Anchorage provides curricula that offer its students the opportunity to acquire the intellectual skills, habits of mind, and ethical sensibilities necessary to develop into individuals who make informed judgments and interpretations about their community and the broader world, who take full responsibility for their beliefs and actions, who recognize the connection between knowing and acting, and who commit themselves to lifelong learning. The UAA curricula emphasizes that while the acquisition of knowledge is an end in itself, each UAA graduate must enter the world beyond the university fully equipped to live resiliently in a changing world and be willing to apply theories and methodologies to examine and resolve the problems of their own communities, and those of an increasingly diverse and interdependent world.

The university does not prescribe specific courses for all students. It is the responsibility of each student to determine an appropriate program of courses within the framework of their academic program in consultation with an academic advisor. (See Chapter 6, Advising and Academic Support, for further information.) The requirements for each degree include completion of a minimum number of courses, resident credits, fulfillment of the General University Requirements and the General Education Requirements, and completion of program requirements.

ACADEMIC PROGRAMS

CERTIFICATES AND OCCUPATIONAL ENDORSEMENTS

The university offers two types of certificates at the undergraduate level:

- Undergraduate certificates of 30 credits or more offer focused instruction in a concentrated area. They include an equivalent of at least 6 credits of related instruction at the collegiate level in communications, computation and human relations. These certificates provide knowledge and skill development in broad enough areas to prepare students for entry into a variety of career fields. They are particularly appropriate in scientific or technical areas such as health care, computer systems, transportation or industrial technology.
- Occupational endorsements are certificates requiring 29 or fewer credits to complete. These certificates provide the specialized knowledge and skills needed in specific employment sectors.

Both of these certificate types are noted on transcripts. Coursework used to complete each type may also apply to associate's and baccalaureate degrees that the student may pursue.

ASSOCIATE DEGREES

The University of Alaska Anchorage offers two types of associate degrees, both of which require the completion of 60 credits or more:

- Associate of Arts (AA) degree combines broad studies in the general education areas of written communication, oral communication, humanities, mathematics, natural sciences, and social sciences, with elective coursework selected by the student. The degree provides broad exposure to systems of thought and inquiry, allows exploration of a variety of disciplines and learning experiences, and provides a solid foundation for further study at the baccalaureate level. The AA degree is administered by the College of Arts and Sciences (CAS). The complete program description is found under the CAS section of this chapter.
- Associate of Applied Science (AAS) degrees provide applied or specialized studies that are used to satisfy a student’s specific educational needs. Many AAS programs prepare students for work in a particular field of employment. Some AAS degrees are designed to provide a foundation for a specific related baccalaureate degree. Students in AAS degree programs build knowledge and skills needed to carry out specific tasks while they develop abilities in the essential elements of communications, computation, and human relations.

BACCALAUREATE DEGREES

Baccalaureate, or bachelor’s degrees, are organized programs of study that consist of a minimum of 120 credits. In addition to providing extensive preparation in a specific knowledge area, the content and activities found in the baccalaureate degree promote in students the abilities to reason, research, and analyze, and to form, support, and communicate ideas and opinions.

Baccalaureate degrees are offered at UAA in over 50 major study areas.

MINORS

A minor is a component of a baccalaureate degree. A minor may only be issued simultaneously with a baccalaureate degree. A minor from UAA consists of a minimum of 18 credits, at least 6 of which must be upper division. Students must earn at least 3 credits in residence in each minor field. They must also earn a UAA cumulative GPA of at least 2.00 (C) in the minor. Students must follow minor requirements from the same catalog used for the baccalaureate program. Refer to each discipline for specific requirements. Students must declare minors no later than the deadline to submit an Application for Graduation.

REGIONAL STUDIES

Regional studies programs offer students opportunities to develop the academic insight, knowledge, and technical skills needed to deal effectively with the far-reaching challenges of contemporary global society. At UAA, regional studies are informed by national developments, international contexts and comparative studies, and their aim is to prepare students to become educated world citizens by providing courses which draw upon the insights of many academic disciplines and by recognizing the cultural diversity that exists within the North Pacific region.

POST-BACCALAUREATE AND GRADUATE PROGRAMS

Post-baccalaureate and graduate certificates and degrees are described in later chapters of this catalog.

GENERAL UNIVERSITY REQUIREMENTS FOR UNDERGRADUATE CERTIFICATES AND ASSOCIATE’S DEGREE PROGRAMS

General University Requirements have been established for all certificate and associate degree programs at UAA.
GENERAL UNIVERSITY REQUIREMENTS FOR UNDERGRADUATE CERTIFICATES

1. Students must be admitted to the program and must complete the certificate program requirements listed in the program section of this chapter.
2. When completing the last half of a certificate program, students must earn at least 50 percent of the credits in residence. For example, in a 30-credit certificate program, at least 8 of the last 15 must be resident credits. Additional residency credit requirements, to meet discipline or accreditation standards, may be established.
3. Students must earn a cumulative GPA of at least 2.00 (C) at UAA. Some certificate programs require higher GPAs.
4. Students must earn a minimum of 30 credits for an undergraduate certificate.
5. Students may elect to complete under the requirements of the catalog in effect at the time of formal acceptance to a certificate program or the catalog in effect at the time of graduation.
6. If the requirements for a certificate are not met within five years of formal acceptance into the program, admission expires and the student must reapply for admission and meet the admission and graduation requirements in effect at the time of formal acceptance.
7. Students may earn more than one certificate by completing all requirements for each additional program.
8. Undergraduate certificates that share a common core must differ by at least 6 credits.

GENERAL UNIVERSITY REQUIREMENTS FOR OCCUPATIONAL ENDORSEMENT CERTIFICATES

1. Students must be admitted to the program and must complete the certificate program requirements listed in the program section of this chapter.
2. Students must complete at least 30 percent of the program in residence at UAA. Additional residency credit requirements, to meet discipline or accreditation standards, may be established.
3. Students must earn a cumulative GPA of at least 2.00 (C) at UAA. Some certificate programs require higher GPAs.
4. Students must earn a minimum of 9 credits for an occupational endorsement certificate.
5. Students may elect to complete under the requirements of the catalog in effect at the time of formal acceptance to a certificate program or the catalog in effect at the time of graduation.
6. If the requirements for a certificate are not met within five years of formal acceptance into the program, admission expires and the student must reapply for admission and meet the admission and graduation requirements in effect at the time of formal acceptance.
7. Students may earn more than one certificate by completing all requirements for each additional program.
8. Occupational endorsement certificates must differ by 3 or more credits.

Note: Not all occupational endorsement certificates are eligible for federal financial aid.

GENERAL UNIVERSITY REQUIREMENTS FOR THE ASSOCIATE OF ARTS DEGREE

The following requirements must be met for the Associate of Arts degree to which students have been admitted:

1. Students must be admitted to the program and must complete the general education and degree requirements listed in the program section of this chapter, listed under the College of Arts and Sciences.
2. Students must earn a minimum of 60 credits for an Associate of Arts degree.
3. Students must complete at least 15 credits in residence. Additional residency credit requirements, to meet program accreditation standards, may be established.
4. Students must earn a cumulative GPA of at least 2.00 (C) at UAA.
5. Students may elect to graduate under the requirements of the catalog in effect at the time of formal acceptance to an associate’s degree program or the catalog in effect at the time of graduation.
6. If the requirements for an associate’s degree are not met within five years of formal acceptance into the program, admission expires and the student must reapply for admission and meet the admission and graduation requirements in effect at the time of formal acceptance.
7. Students must complete a minimum of 60 credits at the 100 level or above, including at least 20 credits at the 200 level or above.
8. No more than 15 military credits can be applied to an Associate of Arts degree.

GENERAL UNIVERSITY REQUIREMENTS FOR ASSOCIATE OF APPLIED SCIENCE DEGREES

The following requirements must be met for the Associate of Applied Science degrees:

1. Students must be admitted to the degree program and complete the General Course Requirements that follow this section.
2. Students must complete the major degree requirements listed in the program section of this chapter. Each program is listed under its offering college.
3. Students must earn a minimum of 60 credits for an AAS degree.
4. Students must complete at least 15 credits in residence. Additional residency credit requirements, to meet program accreditation standards, may be established.
5. Students must earn a cumulative GPA of at least 2.00 (C) at UAA. They must also earn a cumulative GPA of at least 2.00 (C) in all courses required for each major. Some associate degree programs may require higher GPAs.
6. Students may elect to graduate under the requirements of the catalog in effect at the time of formal acceptance to an associate degree program or the catalog in effect at the time of graduation.
7. If the requirements for an associate’s degree are not met within five years of formal acceptance into the program, admission expires and the student must reapply for admission and meet the admission and graduation requirements in effect at the time of formal acceptance.
8. All courses for an AAS degree must be at the 100 level or above.
9. No more than 15 military credits can be applied to an Associate of Applied Science degree.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS

In order to receive an Associate of Applied Science degree, students must be admitted to the program and must satisfy:

1. General University Requirements for the Associate of Applied Science Degree;
2. General Course Requirements for the Associate of Applied Science degree in oral and written communications (9 credits total, see below).

Advising note for AAS students who plan to pursue a four-year degree: AAS students who intend to pursue a baccalaureate degree should consult a faculty or academic advisor for appropriate course selections.

A. Oral Communication Skills
   - COMM A111 Fundamentals of Oral Communication
   - COMM A235 Small Group Communication
   - COMM A237 Interpersonal Communication
   - COMM A241 Public Speaking

B. Written Communication Skills
   - ENGL A111 Methods of Written Communication
   - ENGL A211 Academic Writing About Literature
   - ENGL A212 Technical Writing
   - ENGL A213 Writing in the Social and Natural Sciences
   - ENGL A214 Persuasive Writing

ENGL A211 Methods of Written Communication and one of the following:
- ENGL A212 Technical Writing
3. **General Course Requirements** in designated disciplines. Choose humanities*, math, natural sciences, or social sciences courses from the General Course Requirement Classification List for Associate of Applied Science Degrees (see below.) Courses chosen must be at or above the 100 level.

*Any English course used to satisfy the humanities general requirement must be different from the written communications skills requirement and have a course number higher than ENGL A111.

4. **Degree-Specific Requirements**
   
   (See degree programs under each college in this chapter.)

5. **Electives**
   
   Total Minimum Credits 60

All courses must be at the 100 level or above.

**GENERAL COURSE REQUIREMENT**

**CLASSIFICATION LIST FOR ASSOCIATE OF APPLIED SCIENCE DEGREES**

These general course requirements are designed to ensure that all students graduating with AAS degrees have demonstrated fundamental written and oral communication skills and have successfully performed at the collegiate level in at least one of the listed discipline areas (humanities, natural science, mathematics or social science).

The design of AAS degrees, like that of undergraduate certificates, ensures further that students gain some proficiency in essential skills of communication, computation and human relations. In the absence of specific required courses in these areas, the degrees address these topics in the major requirements and measure student performance in those classes.

**Humanities**

- Alaska Native Studies
- American Sign Language
- Art
- Chinese
- Communication
- Creative Writing and Literary Arts
- Dance
- English*
- French
- German
- History
- Humanities
- Italian
- Japanese
- Korean
- Languages
- Latin
- Liberal Studies Integrated Core
- Linguistics
- Music
- Philosophy
- Political Science (PS A331, A332, and A333 only)
- Russian
- Spanish
- Theatre

*Any English course may be used to satisfy the humanities general requirement, but must be different from the written communications requirement and have a course number higher than ENGL A111.

**Mathematics and Natural Sciences**

- Anthropology (ANTH A205 only)
- Astronomy
- Biological Sciences
- Chemistry
- Computer Science
- Environmental Studies (ENVI/GEOG A211 only)
- Geography (ENVI/GEOG A211/A211L only)
- Geology
- Liberal Studies Integrated Science
- Mathematics
- Philosophy (PHIL A101 only)
- Physics
- Statistics

**Social Sciences**

- Anthropology
- Business Administration (BA A151 only)
- Counseling
- Economics
- Environmental Studies (ENVI A212 only)
- Geography (except ENVI/GEOG A211/A211L)
- Guidance
- Health Sciences (HS A220 only)
- Human Services (HUMS A106 only)
- International Studies
- Journalism and Public Communications (JPC A101 only)
- Justice (JUST A110 and A330 only)
- Liberal Studies Social Sciences
- Paralegal Studies (PARL A101 only)
- Political Science
- Psychology
- Social Work (SWK A106 and A243)
- Sociology
- Women's Studies

**MULTIPLE ASSOCIATE’S DEGREES OR CONCURRENT MAJORS**

The Associate of Arts degree (AA) is intended to provide general education. Therefore, it includes no major specialty, and students may earn only one AA degree.

Associate's degree-seeking students may graduate (during the same semester) with two degrees provided they have applied to and been accepted in both degree programs. (An Associate of Applied Science and Associate of Arts is an example.)

Students must submit a separate Application for Admission for each degree they expect to receive. Admission forms are available from the Office of Admissions (www.uaa.alaska.edu/admissions/index.cfm).

Students seeking a second associate's degree must be admitted to the program and must complete the General University Requirements, the General Course Requirements for their primary program, the General Education Requirements (for the AA degree), the major or degree requirements for both programs, and at least 12 resident-credits beyond the total number of credits required for the primary degree.

Students must satisfy the catalog requirements in effect at the time of acceptance into the degree program(s) or the catalog requirements in effect at the time of graduation.

**DOUBLE MAJORS FOR AAS PROGRAMS**

The Associate of Applied Science (AAS) degree is intended to provide specialized education. Therefore, it does include a major specialty and students may earn more than one AAS degree.

Associate of Applied Science degree-seeking students may apply to graduate (during the same semester) with two majors. For example, a student may select two areas from the approved majors within the Associate of Applied Science degree program (such as Welding and Automotive Technology).

Students must apply and be accepted into each major program. Students may request a double major at the time of initial admission to UAA or add a major at a later date through the Change of Major degree process. Forms are available from Enrollment Management One-Stop or
online at www.uaa.alaska.edu/admissions/forms.cfm. Students must satisfy the General University Requirements, the General Course Requirements, and both sets of major requirements.

Students must satisfy the catalog requirements in effect at the time of acceptance into the major(s), or the catalog requirements in effect at the time of graduation.

A double major is not applicable to the Associate of Arts degree.

TRANSFER STUDENTS
Students who have received a baccalaureate degree from another regionally accredited college or university and who want to obtain an associate’s degree from UAA must:

1. Meet program admission requirements;
2. Complete the General University Requirements but not the General Education or General Course Requirements; and
3. Complete the Major Program Requirements.

BACCALAUREATE DEGREES

THE ACADEMIC MAJOR
Baccalaureate degree-seeking students select a major discipline which reflects their interests; academic talents; and professional goals, and in consultation with academic advisors declare themselves to be majors in the selected discipline. Students select courses within the declared discipline, which in combination with other successfully completed University requirements, lead to a UAA baccalaureate degree. Students may declare a major, a double major, and/or an interdisciplinary major. The requirements for completing specific majors are presented in detail in the section describing the programs offered by each department.

Interdisciplinary majors are described below. Students may declare their majors at any time during their academic careers but should do so before registering for courses for the junior year or applying to participate in off-campus study programs. Some departments have courses that must be passed, or standards that must be met before a student will be accepted as a major. Students are encouraged to think well in advance about possible majors and to speak with faculty about their educational interests.

Students may change their majors after consultation with the relevant departments. Declaration of major is a formal process which requires the appropriate forms and signatures. Students must follow established UAA procedures for declaring a major and for changing a major or degree.

6. Military Credits: No more than 30 military credits can be applied to a baccalaureate degree.

GENERAL EDUCATION REQUIREMENTS (GER) FOR BACCALAUREATE DEGREES

PREAMBLE
The GER provides students with a common educational experience in order to (1) provide a foundation for further study, and (2) broaden the educational experience of every degree-seeking student. It is designed to promote an elevation of the student’s level in basic, college-level skills (Tier 1), a breadth of exposure to traditional academic disciplines (Tier 2), and experience in applying his/her education in understanding and responding to the evolving state of knowledge and the world in the 21st century (Tier 3).

TIER 1: BASIC COLLEGE-LEVEL SKILLS 12 CREDITS
The UAA GER begins with basic college-level skills enhancement in written communication, oral communication, and quantitative skills:

- Courses in written communication and oral communication develop the critical reading, thinking, and communication skills (writing, speaking, and listening) necessary for personal and professional success.
- Courses in quantitative skills foster the analytical and mathematical abilities necessary for success in undergraduate study and professional life. Baccalaureate students are required to complete the 12 credits of basic college-level skills (oral, written, and quantitative) before completing 60 total degree applicable credits. Students may select approved basic college-level skills, which may also fulfill requirements in their intended major. Faculty in English, communication, and mathematics provide placement criteria (which may require the completion of preparatory coursework).

TIER 2: DISCIPLINARY AREAS 22 CREDITS
The GER continues with courses in four required disciplinary areas categorized by course content and academic discipline that are designed to guarantee a breadth of academic experience. These are fine arts, humanities, natural science, and social science:
• Courses in the fine arts examine the historical, aesthetic, critical, and creative aspects of art.
• Courses in the humanities consider the cultural, historical, literary, aesthetic, ethical, and spiritual traditions shaping the contemporary world.
• Courses in natural science present theoretical and descriptive approaches to understanding the natural and physical worlds. Lab courses in the natural sciences emphasize gathering data and analyzing hypotheses according to the scientific method.
• Courses in the social sciences explore insights about individuals, groups, and cultures derived from empirical methodologies.

Note: The 37-credit General Education Requirement, including the 3-credit integrative capstone, is required for graduation after September 2008 for baccalaureate students who were admitted to major or pre-major status under the 2005-2006 UAA Catalog or later catalogs. (For specifics on catalog year requirements, see the Related Undergraduate Admissions Policies in Chapter 7, Academic Standards and Regulations.)

TIER 3: INTEGRATIVE CAPSTONE 3 CREDITS
For baccalaureate students, the GER experience culminates with an integrative capstone, which includes courses from across the university that require students to integrate knowledge of GER basic college-level skills (Tier 1) and/or disciplinary areas (Tier 2) as part of their course design.

Tier 3 (Integrative Capstone) courses may be taken only after the student has completed all Tier 1 (Basic College-Level Skills) requirements.

GER advising note: All students should consult a faculty or academic advisor for appropriate course selections.

• Baccalaureate students are required to complete 12 credits of basic college-level skills (oral, written, and quantitative) before completing 60 total degree applicable credits.
• Each of the eight General Education classifications has a list of approved courses (see the General Education Classification List in this chapter). Only courses from the GER Classification List may be used to satisfy a distribution area requirement.
• Courses used to satisfy distribution area requirements in General Education may also be used to satisfy school/college requirements and/or degree/program requirements, but no course may be counted in more than one General Education category.
• Courses ending with numbers _93 or _94 cannot satisfy a GER, and UAA courses not on the approved GER Classification List cannot be petitioned to meet a GER.

Note: The 37-credit General Education Requirement, including the 3-credit integrative capstone, is required for graduation after September 2008 for baccalaureate students who were admitted to major or pre-major status under the 2005-2006 UAA Catalog or later catalogs. (For specifics on catalog year requirements, see the Related Undergraduate Admissions Policies in Chapter 7, Academic Standards and Regulations.)

GENERAL EDUCATION CLASSIFICATION LIST
Courses listed here as satisfying a General Education Requirement are also identified in Chapter 13, Course Descriptions.

TIER 1: BASIC COLLEGE-LEVEL SKILLS

Classification Credits

1. Oral Communication Skills 3

Oral communication skills courses increase the abilities of students to interact appropriately and effectively in a variety of contexts, including interpersonal, small group, and public speaking settings. In these courses, students develop both their message creation and message interpretation skills in order to be more successful communicators. In doing so, students develop an awareness of the role of communication in a variety of human relationships. Students develop and implement effective and appropriate communication skills, including the ability to develop, organize, present, and critically evaluate messages; analyze audiences; and adapt to a variety of in-person communication settings.

Courses completed at UAA must be selected from the following Oral Communication courses:

- COMM A111 Fundamentals of Oral Communication
- COMM A235 Small Group Communication
- COMM A237 Interpersonal Communication
- COMM A241 Public Speaking

2. Quantitative Skills 3

Quantitative skills courses increase the mathematical abilities of students in order to make them more adept and competent producers and wiser consumers of the mathematical, statistical and computational analyses which will dominate 21st century decision-making. In these courses, all baccalaureate students develop their algebraic, analytic and numeric skills, use them to solve applied problems, and correctly explain their mathematical reasoning.

Courses completed at UAA must be selected from the following Quantitative Skills courses:

- MATH A107 College Algebra
- MATH A108 Trigonometry
- MATH A109 Precalculus
- MATH A172 Applied Finite Mathematics
- MATH A200 Calculus I
- MATH A201 Calculus II
- MATH A272 Applied Calculus
- STAT A252 Elementary Statistics
- STAT A253 Applied Statistics for the Sciences
- STAT A307 Probability

9. Integrate knowledge and employ skills gained to synthesize creative thinking, critical judgment, and personal experience in a meaningful and coherent manner.

PETITIONS FOR GENERAL EDUCATION AND/OR UNIVERSITY REQUIREMENTS

Petitions pertaining to General Education Requirements and/or General University Requirements must be processed through the Office of Academic Affairs, with final authority to deny or approve resting with the provost. After the petition has received final approval or denial, the student is notified of the decision. Changes in course level, grading, or number of credits awarded are not petitionable. UAA courses not on the approved baccalaureate General Education Requirements (GER) list cannot be petitioned to meet a GER. For more information, see Academic Petition section in Chapter 7 of this catalog.

GER STUDENT OUTCOMES
After completing the General Education Requirement, UAA students shall be able to:

1. Communicate effectively in a variety of contexts and formats.
2. Reason mathematically, and analyze quantitative and qualitative data competently to reach sound conclusions.
3. Relate knowledge to the historical context in which it developed and the human problems it addresses.
4. Interpret different systems of aesthetic representation and understand their historical and cultural contexts.
5. Investigate the complexity of human institutions and behavior to better understand interpersonal, group, and cultural dynamics.
6. Identify ways in which science has advanced the understanding of important natural processes.
7. Locate and use relevant information to make appropriate personal and professional decisions.
8. Adopt critical perspectives for understanding the forces of globalization and diversity; and
### Classification and Credits

<table>
<thead>
<tr>
<th>Classification</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>3. Written Communication Skills</strong></td>
<td>6</td>
</tr>
<tr>
<td>Written communication courses emphasize that writing is a recursive and frequently collaborative process of invention, drafting, and revising as well as a primary element of active learning in literate cultures. Students practice methods for establishing credibility, reasoning critically, and appealing to the emotions and values of their audience. They write for a variety of purposes and audiences by employing methods of rhetorical and cultural analysis. They develop the tools to read, think, and write analytically about print and non-print texts and to generate texts that engage their own perceptions while synthesizing the ideas of texts and scholars. Students demonstrate their ability to communicate effectively by selecting form and content that fits the situation; adhering to genre conventions; adapting their voice, tone, and level of formality to that situation; and controlling stylistic features such as sentence variety, syntax, grammar, usage, punctuation, and spelling. Courses completed at UAA must be selected from the following Written Communication courses:</td>
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<tr>
<td>ENGL A111</td>
<td>Methods of Written Communication</td>
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<tr>
<td>ENGL A211</td>
<td>Academic Writing About Literature</td>
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<tr>
<td>ENGL A212</td>
<td>Technical Writing</td>
</tr>
<tr>
<td>ENGL A213</td>
<td>Writing in the Social &amp; Natural Sciences</td>
</tr>
<tr>
<td>ENGL A214</td>
<td>Persuasive Writing</td>
</tr>
<tr>
<td>ENGL A311</td>
<td>Advanced Composition</td>
</tr>
<tr>
<td>ENGL A312</td>
<td>Advanced Technical Writing</td>
</tr>
<tr>
<td>ENGL A414</td>
<td>Research Writing</td>
</tr>
<tr>
<td><strong>4. Fine Arts</strong></td>
<td>3</td>
</tr>
<tr>
<td>The fine arts (visual and performing arts) focus on the historical, aesthetic, critical, and creative approaches to understanding the context and production of art as academic and creative disciplines as opposed to those that emphasize acquisition of skills. Students who complete the fine arts requirement should be able to identify and describe works of art by reference to media employed, historical context and style, and structural principles of design and composition. They should be able to interpret the meaning or intent of works of art and assess their stylistic and cultural importance by reference to their historical significance, their relationship to earlier works and artists and their overall impact of subsequent artistic work. Courses completed at UAA must be selected from the following Fine Arts courses:</td>
<td></td>
</tr>
<tr>
<td>AKNS/ MUS A215*</td>
<td>Music of Alaska Natives and Indigenous Peoples of Northern Regions</td>
</tr>
<tr>
<td>ART A160</td>
<td>Art Appreciation</td>
</tr>
<tr>
<td>ART A261</td>
<td>History of Western Art I</td>
</tr>
<tr>
<td>ART A262</td>
<td>History of Western Art II</td>
</tr>
<tr>
<td>ART A360A</td>
<td>History of Non-Western Art I</td>
</tr>
<tr>
<td>ART A360B</td>
<td>History of Non-Western Art II</td>
</tr>
<tr>
<td>DNCE A170</td>
<td>Dance Appreciation</td>
</tr>
<tr>
<td>MUS A121</td>
<td>Music Appreciation*</td>
</tr>
<tr>
<td>MUS A124*</td>
<td>History of Jazz</td>
</tr>
<tr>
<td>MUS A221*</td>
<td>History of Music I</td>
</tr>
<tr>
<td>MUS A222*</td>
<td>History of Music II</td>
</tr>
<tr>
<td>THR A111</td>
<td>Introduction to the Theatre</td>
</tr>
<tr>
<td>THR A311</td>
<td>Representative Plays I</td>
</tr>
<tr>
<td>THR A312</td>
<td>Representative Plays II</td>
</tr>
<tr>
<td>THR A411</td>
<td>History of the Theatre I</td>
</tr>
<tr>
<td>THR A412</td>
<td>History of the Theatre II</td>
</tr>
<tr>
<td>*Note: Music majors must select courses outside the major.</td>
<td></td>
</tr>
<tr>
<td><strong>5. Humanities</strong></td>
<td>(outside the major) 6</td>
</tr>
<tr>
<td>The humanities examine the characteristic of reality, the purpose of human existence, the properties of knowledge, and the qualities of sound reasoning, eloquent communication, and creative expression. They study the problems of right conduct in personal, social, and political life. They also consider the qualities of the divine, the sacred, and the mysterious. In these tasks the humanities reflect upon the world's heritage of the arts, history, languages, literature, religion, and philosophy. Students who complete a content-oriented course in the humanities should be able to identify texts or objects, to place them in the historical context of the discipline, to articulate the central problems they address, and to provide reasoned assessments of their significance. Students who complete a skills-oriented humanities course in logic should be able to identify the premises and conclusions of brief written arguments, to evaluate their soundness or cogency, and to recognize common fallacies. They should also be able to use a formal technique to determine the validity of simple deductive arguments and to evaluate the adequacy of evidence according to appropriate inductive standards. Students who complete a skills-oriented humanities course in a language should demonstrate proficiency in listening, speaking and writing. Courses completed at UAA must be selected from the following Humanities courses:</td>
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<tr>
<td>AKNS A101A</td>
<td>Elementary Central Yup’ik Language I</td>
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<tr>
<td>AKNS A101B</td>
<td>Elementary Tlingit Language I</td>
</tr>
<tr>
<td>AKNS A101C</td>
<td>Elementary Alaska Native Language I</td>
</tr>
<tr>
<td>AKNS A102A</td>
<td>Elementary Central Yup’ik Language II</td>
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<tr>
<td>AKNS A102B</td>
<td>Elementary Tlingit Language II</td>
</tr>
<tr>
<td>AKNS A102C</td>
<td>Elementary Alaska Native Language II</td>
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<tr>
<td>AKNS A201</td>
<td>Alaska Native Perspectives</td>
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<td>History of Western Art I</td>
</tr>
<tr>
<td>ART A262</td>
<td>History of Western Art II</td>
</tr>
<tr>
<td>ART A360A</td>
<td>History of Non-Western Art I</td>
</tr>
<tr>
<td>ART A360B</td>
<td>History of Non-Western Art II</td>
</tr>
<tr>
<td>ASL A101</td>
<td>Elementary American Sign Language I</td>
</tr>
<tr>
<td>ASL A102</td>
<td>Elementary American Sign Language II</td>
</tr>
<tr>
<td>ASL A201</td>
<td>Intermediate American Sign Language I</td>
</tr>
<tr>
<td>ASL A202</td>
<td>Intermediate American Sign Language II</td>
</tr>
<tr>
<td>CHIN A101</td>
<td>First Year Chinese I</td>
</tr>
<tr>
<td>CHIN A102</td>
<td>First Year Chinese II</td>
</tr>
<tr>
<td>ENGL A121</td>
<td>Introduction to Literature</td>
</tr>
<tr>
<td>ENGL A201</td>
<td>Masterpieces of World Literature I</td>
</tr>
<tr>
<td>ENGL A202</td>
<td>Masterpieces of World Literature II</td>
</tr>
<tr>
<td>ENGL A301</td>
<td>Literature of Britain I</td>
</tr>
<tr>
<td>ENGL A302</td>
<td>Literature of Britain II</td>
</tr>
<tr>
<td>ENGL A305</td>
<td>National Literatures in English</td>
</tr>
<tr>
<td>ENGL A306</td>
<td>Literature of the United States I</td>
</tr>
<tr>
<td>ENGL A307</td>
<td>Literature of the United States II</td>
</tr>
<tr>
<td>ENGL A310</td>
<td>Ancient Literature</td>
</tr>
<tr>
<td>ENGL A383</td>
<td>Film Interpretation</td>
</tr>
<tr>
<td>ENGL A445</td>
<td>Alaska Native Literatures</td>
</tr>
<tr>
<td>FREN A101</td>
<td>Elementary French I</td>
</tr>
<tr>
<td>FREN A102</td>
<td>Elementary French II</td>
</tr>
<tr>
<td>FREN A201</td>
<td>Intermediate French I</td>
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<tr>
<td>FREN A202</td>
<td>Intermediate French II</td>
</tr>
<tr>
<td>GER A101</td>
<td>Elementary German I</td>
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<td>GER A201</td>
<td>Intermediate German I</td>
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<td>GER A202</td>
<td>Intermediate German II</td>
</tr>
<tr>
<td>HIST A101</td>
<td>Western Civilization I</td>
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<td>HIST A102</td>
<td>Western Civilization II</td>
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<td>HIST A121</td>
<td>East Asian Civilization I</td>
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<tr>
<td>HIST A122</td>
<td>East Asian Civilization II</td>
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<td>HIST A131</td>
<td>History of United States I</td>
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<tr>
<td>HIST A132</td>
<td>History of United States II</td>
</tr>
<tr>
<td>HIST A341</td>
<td>History of Alaska</td>
</tr>
<tr>
<td>HNRS A192</td>
<td>Honors Seminar: Enduring Books</td>
</tr>
</tbody>
</table>
Classification Credits

6. **Natural Sciences** 7

(must include a laboratory course)

The natural sciences focus on gaining an understanding of the matter, events and processes that form and sustain our universe. Methods of scientific inquiry are diverse, but all aim to formulate general principles that explain observations and predict future events or behaviors within their disciplines.

Laboratory courses illustrate how scientists develop, test, and challenge scientific theories, providing an appreciation for the process and problems involved in the advancement of scientific knowledge.

Students completing their natural sciences requirement will be able to apply the scientific method by formulating questions or problems, proposing hypothetical answers or solutions, testing those hypotheses, and reaching supportable conclusions. They will also demonstrate an understanding of the fundamentals of one or more scientific disciplines, a knowledge of the discoveries and advances made within that discipline and the impact of scientific information in sculpting thought and in providing the foundations for the technology in use at various times in history. Students completing the laboratory class will demonstrate the ability to work with the tools and in the settings encountered by professionals in the discipline, will critically observe materials, events or processes, and will accurately record and analyze their observations.

Courses completed at UAA must be selected from the following **Natural Sciences** courses:

- **ASTR A103/L**: Solar System Astronomy
- **ASTR A104/L**: Stars, Galaxies and Cosmology
- **BIOL A102**: Introductory Biology
- **BIOL A103**: Introductory Biology Laboratory
- **BIOL A111**: Human Anatomy and Physiology I
- **BIOL A112**: Human Anatomy and Physiology II
- **BIOL A115**: Fundamentals of Biology I
- **BIOL A116**: Fundamentals of Biology II
- **BIOL A178**: Fundamentals of Oceanography
- **BIOL A179**: Fundamentals of Oceanography Laboratory
- **PHYS A101**: Physics for Poets
- **CHEM A103/L**: Survey of Chemistry
- **CHEM A104/L**: Introduction to Organic Chemistry and Biochemistry
- **CHEM A105/L**: General Chemistry I
- **CHEM A106/L**: General Chemistry II
- **ENVI/**:
- **GEOG A211**: Earth Systems: The Science and Geography of the Natural Environment
- **GEOG A212/L**: Earth Systems: The Science and Geography of the Natural Environment Laboratory
- **GEOL A111**: Physical Geology
- **GEOL A115/L**: Environmental Geology
- **GEOL A178**: Fundamentals of Oceanography
- **GEOL A179**: Fundamentals of Oceanography Laboratory
- **GEOG A221**: Historical Geology
- **LSIS A101**: Discoveries in Science
- **LSIS A102**: Origins: Earth-Solar System-Life
- **LSIS A201**: Life on Earth
- **LSIS A202**: Concepts and Processes: Natural Sciences
- **PHYS A101**: Physics for Poets
- **PHYS A123/L**: Basic Physics I
- **PHYS A124/L**: Basic Physics II
- **PHYS A211/L**: General Physics I
- **PHYS A212/L**: General Physics II

Classification Credits

7. **Social Sciences** 6

(outside the major; from two different disciplines)

The social sciences focus on the acquisition, analysis, and interpretation of empirical data relevant to the human experience. Disciplines differ in their focus on collective as opposed to individual behavior, biological as opposed to social or cultural factors, the present as opposed to the past, and quantitative as opposed to qualitative data. Students who complete a general education social sciences course should be motivated to reflect on the workings of the society of which they are a part and should possess a broad perspective on the diversity of human behavior. They should be able to distinguish between empirical and non-empirical truth claims. They should be aware of the limits of human objectivity and understand the rudiments of how ideas about social phenomena may be tested and verified or rejected. They should have an introductory knowledge of social science thinking which includes observation, empirical data analysis, theoretical models, quantitative reasoning, and application to social aspects of contemporary life. A student who has met the social science General Education Requirement is expected to be able to demonstrate knowledge of social science approaches and to apply that knowledge in a particular content area.

Courses completed at UAA must be selected from the following **Social Sciences** courses:

- **ANTH A101**: Introduction to Anthropology
- **ANTH A200**: Natives of Alaska
- **ANTH A202**: Cultural Anthropology
- **ANTH A250**: The Rise of Civilization
- **BA A151**: Introduction to Business
- **CEL A292**: Introduction to Civic Engagement
- **ECON A201**: Principles of Macroeconomics
- **ECON A202**: Principles of Microeconomics
- **ECON A210**: Environmental Economics and Policy
- **EDEC A105**: Introduction to the Field of Early Childhood
- **ENVI A212**: Living on Earth: People and the Environment
- **GEOG/**:
- **INTL A101**: Local Places/Global Regions: An Introduction to Geography
- **HNRS A292**: Honors Seminar in Social Science
**Tier 3: Integrative Capstone**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>8. Integrative Capstone</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

The GER experience culminates with the integrative capstone, which includes courses from across the university that require students to synthesize across GER domains. Integrative capstone courses include knowledge integration of GER basic college-level skills (Tier 1) and/or disciplinary areas (Tier 2) as part of their course design. Integrative capstone courses should focus on practice, study, and critical evaluation, and include in their student outcomes an emphasis on the evolving realities of the 21st century.

Students completing the integrative capstone requirement must demonstrate the ability to integrate knowledge by accessing, judging and comparing knowledge gained from diverse fields and by critically evaluating their own views in relation to those fields.

Courses completed at UAA must be selected from the following Integrative Capstone courses:

- ACCT A452 Auditing
- ANTH A354 Culture and Ecology
- ART A491 Senior Seminar
- ATA A492 Air Transportation System Seminar
- BIOL A378 Marine Biology
- BIOL A452 Human Genome
- BIOL/CHM/PHYS A456 Nonlinear Dynamics and Chaos
- BIOL A489 Population Genetics and Evolutionary Processes
- CA A495 Hospitality Internship
- CE A438 Design of Civil Engineering Systems
- CEL A450 Civic Engagement Capstone
- CHEM A441 Principles of Biochemistry I
- CIS A326 Information Age Literacy
- CIS A376 Management Information Systems
- CM A422 Sustainability in the Built Environment
- CM A450 Construction Management Professional Practice
- CS A470 Applied Software Development Project
- CSE A438 Design of Computer Engineering Systems
- DN A415 Community Nutrition
- DNCE A370 Interdisciplinary Dance Studies: Issues and Methods
- ECON A492 Seminar in Economic Research
- EDEN A300 Philosophical and Social Context of American Education
- EDEN A304 Comparative Education
- EE A438 Design of Electrical Engineering Systems
- ENGL A434 History of Rhetoric
- ENGL A478 Public Science Writing
- ENVI A470 Environmental Planning and Problem Solving
- GEO A460 Geomatics Design Project
- GEOL A456 Geology
- HIST/INTL/PS A325 Northeast Asia in 21st Century
- HIST A390A Themes in World History
- HIST A427 Post-Soviet Culture and Society
- HNRS A490 Senior Honors Seminar
- HS A491 Health Issues in Alaska
- HUMS A495B Human Services Practicum IV
- INTL A315 Canada: Nation and Identity
- JPC A403 Communications and Media Research
- JUST A460 Justice in Crisis
- LSIC A488A Capstone Project I: Design and Research
- LSSS A312 Individuals, Groups, and Institutions
- MATH A420 History of Mathematics
- ME A438 Design of Mechanical Engineering Systems
- MEDT A302 Clinical Laboratory Education and Management
- MUS A331 Form and Analysis
- NS A411 Health II: Nursing Therapeutics
- PEP A384 Cultural and Psychological Aspects of Health and Physical Activity
- PHIL A400 Ethics, Community, and Society
- PS A492 Senior Seminar in Politics
- PSY A370 Biological Psychology
- RUSS A427 Post-Soviet Culture and Society
- SOC A488 Capstone Seminar
- STAT A308 Intermediate Statistics for the Sciences
- SWK A431 Social Work Practice IV: Integrative Capstone
- TECH A453 Capstone Project
- THR A492 Senior Seminar

See Class Schedule for additional integrative capstone courses.

**Note:** The 37-credit General Education Requirement, including the 3-credit integrative capstone, is required for graduation after September 2008 for baccalaureate students who were admitted to major or pre-major status under the 2005-2006 UAA Catalog or later catalogs. (For specifics on catalog year requirements, see the Related Undergraduate Admissions Policies in Chapter 7, Academic Standards and Regulations.)

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**CONCURRENT BACCALAUREATE PROGRAMS**

**Double Majors**

Baccalaureate degree-seeking students may graduate (during the same semester) with two majors, provided they have applied for and been accepted in each degree program and that the degree is the same for each major. For example, a student may select two areas from the approved majors within a Bachelor of Arts degree program (such as History and Justice). Students must apply for and be accepted into each major. Students may declare a double major at the time of initial admission to UAA or add a major at a later date through the change of major/degree process. Forms are available from Enrollment Management One-Stop or online at [www.uaa.alaska.edu/admissions/forms.cfm](http://www.uaa.alaska.edu/admissions/forms.cfm). Students must satisfy the General University Requirements, the General Education Requirements for the primary program, both sets of school/college requirements, if applicable, and major program requirements. Students must satisfy the catalog requirements in effect at the time of acceptance into the major(s) or the catalog requirements in effect at the time of graduation.
MULTIPLE DEGREES
Baccalaureate degree-seeking students may graduate (during the same semester) with multiple degrees provided they have applied for and been accepted in each degree program. Students must submit a separate Application For Admission and Application For Graduation for each degree they expect to complete. Forms are available at Enrollment Management One-Stop or online at www.uaa.alaska.edu/admissions/forms.cfm. Students must satisfy the catalog requirements in effect at the time of acceptance into the degree program(s) or the catalog requirements in effect at the time of graduation. Baccalaureate degree-seeking students must complete the General University Requirements, the General Education Requirements, school/college requirements, if applicable, major program requirements, and at least 24 resident credits beyond each degree completed (i.e., if the first degree requires a total of 120 credits, the second requires at least 144 total credits, and the third requires at least 168 total credits, etc.).

SECOND BACCALAUREATE DEGREE
UAA STUDENTS
Students who have received a baccalaureate degree from UAA, who return and want to obtain another baccalaureate degree must:
1. Meet admission requirements.
2. Complete at least 24 resident credits beyond the last baccalaureate degree(s) awarded.
3. Complete the school/college requirements, if applicable, and the major program requirements, including any resident and/or upper division requirements, for the second degree.
4. Maintain a cumulative GPA of at least 2.00 (C) at UAA in order to graduate. Some programs may require a higher GPA in the major.

TRANSFER STUDENTS
Students who have received a baccalaureate degree from another regionally accredited college or university and who want to obtain a baccalaureate degree from UAA must:
1. Meet admission requirements.
2. Complete the General University Requirements but not the General Education Requirements.
3. Complete all school/college requirements, if applicable, and the major program requirements.

INTERDISCIPLINARY BACCALAUREATE DEGREES
Upon completing at least 15 UAA credits, a student may develop an interdisciplinary BA or BS degree program. The proposed program must differ significantly from established degree programs and must not be a substitute for a regular degree program. Interdisciplinary degree programs are not transferable to other University of Alaska campuses.

To receive a baccalaureate degree in interdisciplinary studies from UAA, the student must meet General University Requirements, General Education Requirements, and school/college requirements as applicable. Major program requirements are established in the interdisciplinary program plan developed by the student in consultation with an advisory committee.

An interdisciplinary baccalaureate program proceeds as follows:
1. The student develops a proposal specifying the degree (BA or BS), title, and program content, including recommendations for courses to meet General Education Requirements and school/college requirements as applicable.
2. The student obtains an advisory committee of at least three faculty members from the appropriate academic disciplines. If the interdisciplinary degree program involves more than one school or college, the committee must include a faculty member from each.
3. The student obtains the assistance of one faculty member to chair the advisory committee and serve as the interdisciplinary degree program director.
4. The student presents the proposal for committee review and approval. If the committee supports the proposal, it is forwarded to the appropriate academic dean(s) or director(s).
5. The dean(s) or director(s) review(s) the proposal, committee membership, and recommendation for degree program director. If the dean(s) or director(s) approves the interdisciplinary degree program and committee structure, the degree program plan is forwarded to the Office of the Registrar.
6. If changes are necessary in the degree program plan, they must have written approval of the advisory committee and appropriate dean(s) or director(s).
7. The student works with the advisory committee and the Office of the Registrar to insure that all degree requirements are met.
The College of Arts and Sciences is dedicated to the principle that an enlightened understanding of the world is fostered by study of the physical environment, cultural values and processes, creative expressions, and systems of thought and discovery. In fulfillment of this educational commitment, the fields of study offered by the college serve two ends: they are intellectually valuable in themselves and they are an essential complement to other fields of knowledge. The faculty are highly trained and energetic professionals who are here to impart the knowledge and skills of their academic disciplines both to majors within the college and to students in the various professional schools and the community. The formal means of communicating this knowledge and these skills are the courses and degree programs of the college.

The college welcomes applications from students who have just graduated from high school as well as from those who are continuing their higher education, whether to complete an associate’s or a baccalaureate degree or to undertake graduate studies. Students who wish to begin work on their degrees at another university or at a junior or community college and intend to transfer credits to the University of Alaska Anchorage should plan their coursework in accordance with the General University Requirements and the requirements of the particular program in which they are interested in earning a degree.

Prospective transfer students, particularly those who have not decided upon a major, should pay special attention to the requirements of programs within the College of Arts and Sciences regarding the applicability of credits toward degrees.

High School Preparation
The following high school courses are recommended but not necessarily required in preparation for admission to the various programs within the College of Arts and Sciences:

**Arts**
One to two years with emphasis in basic and fundamental courses in the arts with more advanced courses dependent upon students’ particular interest.

**Computer Science**
One to two years. Basic knowledge of computer science recommended for all college-bound students.

**English**
Four years with emphasis on spelling, writing, grammar, and research skills such as preparation of bibliographies.

**Language**
One to two years. Suggested languages: German, Russian, Latin, Japanese, French, Spanish, Chinese, or Native languages.

**Mathematics**

- **BA candidates:** Three years with emphasis on algebra I and II, trigonometry, geometry, analysis.
- **BS candidates:** Four years with emphasis on algebra I and II, trigonometry, geometry, analysis.

**Science**

- **BA candidates:** Two to three years with emphasis in biology, chemistry, physics, geology, and/or earth science.
- **BS candidates:** Three to four years with emphasis in biology, chemistry, physics, geology, and/or earth science.

**Social Sciences**
Two years with emphasis in world history, U.S. history, comparative political theory, current events, geography, cultural anthropology, and/or prehistoric archaeology.

**Electives**
No more than 6 credits in lower division Education-Physical Education (EDPE), and/or Physical Education Professional (PEP), and/or Physical Education and Recreation (PER) courses may be applied toward a BA or BS degree program offered by the College of Arts and Sciences.

**Bachelor of Arts**
The Bachelor of Arts degree is a liberal arts degree. The basic assumption of a liberal arts degree is that a broad knowledge base will serve the student over a lifetime.

- **Cultural Heritages**
  1. Comparative Cultures (ANTH A250)
  2. Western Culture (HIST A101 and HIST A102)
  3. American Culture (HIST A131, HIST A132, PS A101)
- **Arts and Letters**
  1. Introduction to Literature (ENGL A120, A301, A302, A305, A306, A307)
  2. Language/Humanities 6-8

- **Ways of Knowing**
  2. Language/Humanities
- **Social Behavior**
  1. Comparative Cultures
- **B. Arts and Letters**
  1. Introduction to Literature (ENGL A120, A301, A302, A305, A306, A307)
  2. Language/Humanities
  3. American Culture (HIST A131, HIST A132, PS A101)

**Bachelor of Science**
The requirements of the Bachelor of Science degree are designed to equip students with the technical competencies needed in scientific disciplines.

- **Mathematics and Statistics**
  1. Mathematics and Statistics (MATH A200 or MATH A272)
  2. Computer Programming (CS A109, CS A110, CS A111, CS A201, CS A202, ES A201)
  3. Language/Humanities

- **C. Language/Humanities**
- **Electives**
- **Electives**

No more than 6 credits in lower division Education-Physical Education (EDPE), and/or Physical Education Professional (PEP), and/or Physical Education and Recreation (PER) courses may be applied toward a BA or BS degree program offered by the College of Arts and Sciences.

**Bachelor of Arts**
The Bachelor of Arts degree is a liberal arts degree. The basic assumption of a liberal arts degree is that a broad knowledge base will serve the student over a lifetime.

- **Cultural Heritages**
  1. Comparative Cultures (ANTH A250)
  2. Western Culture (HIST A101 and HIST A102)
  3. American Culture (HIST A131, HIST A132, PS A101)
- **Arts and Letters**
  1. Introduction to Literature (ENGL A120, A301, A302, A305, A306, A307)
  2. Language/Humanities

- **Ways of Knowing**
  2. Language/Humanities
- **Social Behavior**
  1. Comparative Cultures
- **B. Arts and Letters**
  1. Introduction to Literature (ENGL A120, A301, A302, A305, A306, A307)
  2. Language/Humanities
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  2. Computer Programming (CS A109, CS A110, CS A111, CS A201, CS A202, ES A201)
  3. Language/Humanities

- **C. Language/Humanities**
- **Electives**

No more than 6 credits in lower division Education-Physical Education (EDPE), and/or Physical Education Professional (PEP), and/or Physical Education and Recreation (PER) courses may be applied toward a BA or BS degree program offered by the College of Arts and Sciences.

**Bachelor of Arts**
The Bachelor of Arts degree is a liberal arts degree. The basic assumption of a liberal arts degree is that a broad knowledge base will serve the student over a lifetime.

- **Cultural Heritages**
  1. Comparative Cultures (ANTH A250)
  2. Western Culture (HIST A101 and HIST A102)
  3. American Culture (HIST A131, HIST A132, PS A101)
- **Arts and Letters**
  1. Introduction to Literature (ENGL A120, A301, A302, A305, A306, A307)
  2. Language/Humanities

- **Ways of Knowing**
  2. Language/Humanities
- **Social Behavior**
  1. Comparative Cultures
- **B. Arts and Letters**
  1. Introduction to Literature (ENGL A120, A301, A302, A305, A306, A307)
  2. Language/Humanities
  3. American Culture (HIST A131, HIST A132, PS A101)

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  2. Computer Programming (CS A109, CS A110, CS A111, CS A201, CS A202, ES A201)
  3. Language/Humanities

- **C. Language/Humanities**
- **Electives**

No more than 6 credits in lower division Education-Physical Education (EDPE), and/or Physical Education Professional (PEP), and/or Physical Education and Recreation (PER) courses may be applied toward a BA or BS degree program offered by the College of Arts and Sciences.
D. Natural Sciences
   To be selected from the following list:
   (ASTR A103, A104
   BIOL A102, A103, A111, A112, A113, A114, A115, A116,
   CHEM A103/L, A104/L, A105/L, A106/L
   GEOL A111, A221
   PHYS A123/L, A124/L, A211/L, A212/L)

   *The total natural science requirement of each student includes 16 credits
   (7 credits from the General Education natural science requirement and 9 credits
   from the CAS Bachelor of Science requirement). These two requirements may be
   met by any combination of applicable courses that combine to 16 credits. The
   total must include two laboratory courses and at least 6 credits in each of two
   disciplines.

BACHELOR OF MUSIC, PERFORMANCE
Language Proficiency 8
Two semesters of oral language study.

BACHELOR OF FINE ARTS
The Bachelor of Fine Arts is a professionally oriented program designed
to prepare students for careers in art. No additional college requirements.

BACHELOR OF LIBERAL STUDIES
The Bachelor of Liberal Studies (BLS) degree is an interdisciplinary
program intended for students who prefer a broad liberal arts and
sciences degree rather than a Bachelor of Arts or Bachelor of Science
degree in a single discipline. No additional college requirements.

CAS MINOR
A minor from the College of Arts and Sciences will consist of a
minimum of 18 credits, at least 6 of which will be upper division. Refer
to each discipline for specific course requirements. Also see Minors policy
earlier in this chapter.

THE FOLLOWING IS THE LISTING OF DEGREES
AVAILABLE FROM THE COLLEGE OF ARTS AND
SCIENCES:

ASSOCIATE OF ARTS
The Associate of Arts (AA) degree provides a solid foundation in
mathematics and written and oral communication, the natural and
social sciences, the humanities and fine arts. The AA degree prepares
students for career advancement and baccalaureate programs and to
better understand their world.

PROGRAM OUTCOMES
Students graduating with an Associate of Arts degree from UAA
will be able to
• Communicate effectively with diverse audiences (individual,
group, or public) using a variety of verbal and nonverbal
communication strategies;
• Respond effectively to writing assignments using appropriate
genres and standard written English;
• Use library and electronic research responsibly and
appropriately;
• Identify, describe, and evaluate the aesthetic, historical and
philosophical aspects of material culture, including artistic
expressions, language, and texts;
• Apply critical thinking skills to identify the premises and
conclusions of arguments, evaluate their soundness, and
recognize common fallacies;
• Use appropriate mathematical language and symbols to
develop and communicate solutions, and demonstrate
quantitative and analytical skills and knowledge;
• Articulate the fundamentals, developments, and impacts of
one or more scientific disciplines; and develop and analyze
evidence-based conclusions about the natural and social world.

ADMISSION REQUIREMENTS
Complete the Undergraduate Certificate and Associate Degree
Program Admission Requirements located at the beginning of
Chapter 7.

GENERAL UNIVERSITY REQUIREMENTS
Complete General University Requirements for Associate of Arts
Degrees located at the beginning of this chapter.

GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Associate of
Arts Degrees outlined below.

DEGREE REQUIREMENTS
All courses must be at the 100 level or above. At least 20 credits of
the required 60 credits must be at the 200 level. Students intending
to complete the Associate of Arts degree and then continue on to a
baccalaureate degree, should consult the Advising Note for AA
Students Who Plan to Pursue a Baccalaureate Degree below.

General Education Requirements
1. Oral Communication Skills
   COMM A111 Fundamentals of Oral
   Communication (3)
   COMM A235 Small Group Communication (3)
   COMM A237 Interpersonal Communication (3)
   COMM A241 Public Speaking (3)
   2. Written Communication Skills
   CIOS A260A Business Communications (3)+ *
   ENGL A111: Methods of Written
   Communication (3),
   and one of the following:
   ENGL A211 Academic Writing About
   Literature (3)
   ENGL A212 Technical Writing (3)
   ENGL A213 Writing in the Social and Natural
   Sciences (3)
   ENGL A214 Persuasive Writing (3)
   3. Humanities and Fine Arts
   Three courses from the GER Classification List.
   At least one course each from the humanities and
   fine arts areas.
   4. Mathematical and Natural Sciences
   MATH A105 Intermediate Algebra (3)+ *
   or one course from the quantitative skills area of
   GER Classification List (3)
   Two natural science courses from the natural science
   area of GER Classification List (3+3) (6)*
   5. Social Sciences
   Two social science courses (from two different
disciplines) from the social science area of GER
   Classification List
   6. Electives
   Total minimum credits

* Please note: Math A105 and CIOS A260A do not meet the General
Education Requirements for the baccalaureate degree.
**Advising Note for AA Students Who Plan to Pursue a Baccalaureate Degree:**

AA students who plan to pursue a baccalaureate degree must take care in planning their curriculum. Please see an advisor and take note of the following:

- UAA baccalaureate students are required to complete 12 credits of basic college-level skills from the oral communication, written communication, and quantitative skills areas of the General Education Classification List prior to completing 60 total degree applicable credits.
- Students with 60 credits or more who have not completed the baccalaureate 12-credit, basic college-level skills requirement will have one full academic year to fulfill this requirement, after which they will be allowed to take additional courses as degree-seeking students. MATH A105 and CIOS A260A do not count toward completing the baccalaureate GER requirements.
- Students who plan to apply AA credits to a UAA baccalaureate (four-year) degree, and who know the program or major they are going to transfer into, should consult the General Education Requirements for their specific program or major. Programs often require specific GER courses for their majors. Students planning to transfer should use AA electives to fulfill prerequisites and requirements for their anticipated major.
- Students who plan to apply AA credits to a UAA baccalaureate (four-year) degree, and who do not know which program or major they wish to pursue, should plan as follows:

1. **Oral Communication Skills**
   - COMM A111 Fundamentals of Oral Communication (3)
   - COMM A235 Small Group Communication (3)
   - COMM A237 Interpersonal Communication (3)
   - COMM A241 Public Speaking

2. **Written Communication Skills**
   - ENGL A111 Methods of Written Communication (3)
   - ENGL A211 Academic Writing About Literature (3)
   - ENGL A212 Technical Writing (3)
   - ENGL A213 Writing in the Social and Natural Sciences (3)
   - ENGL A214 Persuasive Writing (3)

3. **Humanities and Fine Arts**
   - One course from the fine arts area of GER Classification List (3)
   - Two courses from the humanities area of GER Classification List (6)

4. **Mathematical and Natural Sciences**
   - One MATH/STAT course from the quantitative skills area of GER Classification List (3)
   - Two natural science courses from the natural sciences area of GER Classification List, including a lab course (7)

5. **Social Sciences**
   - Two social science courses (from two different disciplines) from the social science area of GER Classification List

Since the AA degree requirements are different from the four-year degree requirements, AA students who pursue a baccalaureate degree may be required to take additional courses to satisfy the General Education Requirements for the four-year degree after declaring their major.

**ALASKA NATIVE STUDIES**

**Social Sciences Building (SSB), Room 378, (907) 786-6135  
www.uaa.alaska.edu/native**

The Alaska Native Studies program provides the student with an introduction to Alaskan Native ways of knowing and seeing the world, an experiential and theoretical exploration of Alaskan Native cultures, and a series of critical perspectives on traditional and contemporary Native experiences and politics in a pluralistic society. Students may select one of two areas to complete the requirements for the minor; a policy focus or a language focus. Both of these areas emphasize the dynamic nature of Alaska Native cultures and the conflict between traditional Native values and those of the dominant Euro-American society. The Alaska Native Studies minor provides a valuable enrichment to any UAA baccalaureate degree.

**MINOR, ALASKA NATIVE STUDIES**

1. **Complete the following core courses:**
   - AKNS A201 Alaska Native Perspectives 3
   - AKNS A492 Seminar: Cultural Knowledge of Native Elders 3

2. **Complete one of the following focus areas:**

   **A. Policy Focus**
   - AKNS A290 Selected Topics in Alaska Native Studies (1-3) and/or
   - AKNS A490 Selected Topics in Alaska Native Studies (1-3)
   - AKNS/PS A346 Alaska Native Politics (3)
   - AKNS/PS A411 Tribes, Nations and Peoples (3)

   **B. Language Focus**
   - AKNS A101 Alaska Native Languages I (4)
   - AKNS A102 Alaska Native Languages II (4)

3. **Complete a minimum of 6 credits from the following:**
   - (must be other courses than those taken from the above focus areas)
   - AKNS A101 Alaska Native Languages I (4)
   - AKNS A102 Alaska Native Languages II (4)
   - AKNS A109 Alaska Native Language Orthography (4)
   - AKNS A290 Selected Topics in Alaska Native Studies (1-3)
   - AKNS A290 Selected Topics in Alaska Native Studies (1-3)
   - AKNS/PS A346 Alaska Native Politics (3)
   - AKNS/PS A411 Tribes, Nations and Peoples (3)
   - AKNS A420 Alaska Native Education (3)
   - AKNS A490 Selected Topics in Alaska Native Studies (1-3)
   - AKNS A495 Alaska Native Studies Internship (1-3)
   - ANTH A200 Natives of Alaska (3)
   - ANTH A427 Ethno-History of Alaska Natives (3)
   - ANTH A435 Northwest Coast Cultures (3)
   - ANTH A436 Aleut Adaptations (3)
   - ART A365 Native Art of Alaska (3)
   - ENGL A445 Alaska Native Literatures (3)
   - HIST A341 History of Alaska (3)
   - JUST A455 Rural Justice (3)

4. **A minimum of 19 credits is required for the minor, of which 6 credits must be upper division.**

**FACULTY**

Nancy Furlow, Interim Director, AFNJF1@uaa.alaska.edu
Edgar Blatchford, Associate Professor, Eblatch@lpc.alaska.edu
Marie Meade, Master Teacher, AFMM1@uaa.alaska.edu
ANTHROPOLOGY
Beatrice McDonald Hall (BMH), Room 214, (907) 786-6840  
http://anthro.uaa.alaska.edu

Anthropology is the study of human diversity on a cross-cultural basis,  
aimed at achieving both scientific and humanistic education goals.  
Anthropology is comprised of four sub-fields: sociocultural  
anthropology, biological anthropology, archaeology, and anthropological  
linguistics. The BA/BS degrees are designed to provide the student with  
a solid general foundation in the discipline by emphasizing understanding  
of different cultures and peoples as well as different theories and methodologies. Although there is some opportunity for  
limited specialization in either archaeology or sociocultural  
anthropology and in Alaska studies, the department believes that such specialization should be deferred until graduate work.

HONORS IN ANTHROPOLOGY
The award of Honors in Anthropology recognizes outstanding  
achievement by undergraduate majors in the study of anthropology.

To be eligible for departmental honors, a student must satisfy the  
following requirements:
1. Be a declared Anthropology major.
2. Satisfy all of the requirements for a BA or BS degree in Anthropology.
3. Meet the requirements for Graduation with Honors, as listed in  
Chapter 7 of the UAA catalog.
4. Earn a grade point average of 3.50 or above in courses specific to  
the Anthropology major.
5. Complete a senior thesis project (taken as ANTH A499), based on  
library, laboratory, or field research resulting in a substantial,  
thesis-quality paper defended before the Anthropology faculty.  
Note: the course may be taken on a one-semester (3 credit) or two- 
semester (6 credit) basis.

ADMISSION REQUIREMENTS
Complete the Admission to Baccalaureate Programs Requirements  
in Chapter 7, Academic Standards and Regulations.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:
A. GENERAL UNIVERSITY REQUIREMENTS  
Complete the General University Requirements for All  
Baccalaureate Degrees located at the beginning of this chapter.
B. GENERAL EDUCATION REQUIREMENTS  
Complete the General Education Requirements for Baccalaureate  
Degrees listed at the beginning of this chapter.
C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS  
Complete the College of Arts and Sciences Requirements for either  
a BA or BS degree listed at the beginning of the CAS section.
D. MAJOR REQUIREMENTS

BACHELOR OF ARTS, ANTHROPOLOGY
1. Complete 36 credits from items 2 through 6, 18 of which must be  
   upper division credits.  
2. Complete three of the following core courses (9 credits):  
   ANTH A202   Cultural Anthropology (3)  
   ANTH A205   Biological Anthropology (3)  
   ANTH A210   Introduction to Anthropological  
               Linguistics (3)  
   ANTH A211   Fundamentals of Archaeology (3)  
3. Complete the following courses (6 credits):  
   ANTH A250   Rise of Civilization           3  
   ANTH A410   History of Anthropology       3
4. Complete three ethnographic area courses (9 credits) from the  
   following:  
   ANTH A200   Natives of Alaska (3)  
   ANTH A325   Cook Inlet Anthropology (3)  
   ANTH A333   Peoples and Cultures of Southeast Asia (3)  
   ANTH A335   Native North Americans (3)  
   ANTH A336   Peoples and Cultures of South America (3)  
   ANTH A338   Peoples and Cultures of Scandinavia (3)  
   ANTH A427   Ethnohistory of Alaska Natives (3)  
   ANTH A429   Contemporary Alaska Native Societies (3)  
   ANTH A434   Peoples and Cultures of Northeast Asia (3)  
   ANTH A435   Northwest Coast Cultures (3)  
   ANTH A436   Aleut Adaptations (3)  
   ANTH A437   Eskimo Adaptations (3)  
   ANTH A438   Tlingit and Haida Adaptations (3)  
   ANTH A439   Athapascan Adaptations (3)
5. Complete two courses (6 credits) from the following  
topic/theoretical courses:  
   ANTH A270   Cross-Cultural Perspectives on Women (3)  
   ANTH A324   Psychological Anthropology (3)  
   ANTH A354   Culture and Ecology (3)  
   ANTH A360   Anthropology of Art (3)  
   ANTH A361   Language and Culture (3)  
   ANTH A365   Races: Modern Human Diversity (3)  
   ANTH A375   Introduction to Cultural Resource  
               Management (3)  
   ANTH A400   Anthropology of Religion (3)  
   ANTH A415   Applied Anthropology (3)  
   ANTH A425   Archaeology of Identity (3)  
   ANTH A432   Hunting and Gathering Societies (3)  
   ANTH A445   Evolution of Humans and Disease (3)  
   ANTH A455   Medical Anthropology (3)  
   ANTH A457   Food and Nutrition: An Anthropological  
               Perspective (3)  
   ANTH A460   Peace, War, and Violence: An  
               Anthropological Perspective (3)  
   ANTH A476   Ethical Issues in Archaeology (3)  
   ANTH A480   Analytical Techniques in Archaeology (3)  
   ANTH A481   Museum Studies in Anthropology (3)  
   ANTH A482   Historical Archaeology (3)  
   ANTH A483   Lithic Technology (3)  
   ANTH A485   Human Osteology (3)  
   ANTH A486   Applied Human Osteology (3)

Note: The upper division special topics course (ANTH A490) or  
independent study courses (ANTH A397, ANTH A497) may be  
petitioned to satisfy ethnographic area or topical/theoretical course  
requirements, depending on course content.

6. Anthropology electives: Any 6 credits in Anthropology  
7. Complete one statistics course from the following:  
   STAT A252   Elementary Statistics (3)  
   STAT A253   Applied Statistics for the Sciences (4)  
   STAT A307   Probability (3)
8. A minimum of 120 credits is required for the degree, of  
   which 42 credits must be upper division to satisfy General  
   Education Requirements.

BACHELOR OF SCIENCE, ANTHROPOLOGY
1. Complete 36 credits from items 2 through 6, 18 of which must be  
   upper division credits.
2. Complete three of the following core courses:  
   ANTH A202   Cultural Anthropology (3)
3. Complete the following courses: 6
   - ANTH A250 Rise of Civilization
   - ANTH A410 History of Anthropology

4. Complete three ethnographic area courses from the following: 9
   - ANTH A200 Natives of Alaska
   - ANTH A325 Cook Inlet Anthropology
   - ANTH A333 Peoples and Cultures of Southeast Asia
   - ANTH A335 Native North Americans
   - ANTH A336 Peoples and Cultures of South America
   - ANTH A338 Peoples and Cultures of Scandinavia
   - ANTH A427 Ethnohistory of Alaska Natives
   - ANTH A429 Contemporary Alaska Native Societies
   - ANTH A434 Peoples and Cultures of Northeast Asia
   - ANTH A435 Northwest Coast Cultures
   - ANTH A436 Aleut Adaptations
   - ANTH A437 Eskimo Adaptations
   - ANTH A438 Tlingit and Haida Adaptations
   - ANTH A439 Athapaskan Adaptations

Of the following ethnographic area courses which emphasize archaeology, no more than 6 credits can be used to satisfy the ethnographic area requirement:
   - ANTH A312 North American Archaeology
   - ANTH A330 Ancient Civilizations of Mexico and Guatemala
   - ANTH A413 Peopling of the Americas
   - ANTH A416 Arctic Archaeology

5. Complete two courses from the following topical/theoretical courses: 6
   - ANTH A270 Cross-Cultural Perspectives on Women
   - ANTH A324 Psychological Anthropology
   - ANTH A350 Survey of the Primates
   - ANTH A354 Culture and Ecology
   - ANTH A360 Anthropology of Art
   - ANTH A361 Language and Culture
   - ANTH A365 Races: Modern Human Diversity
   - ANTH A375 Introduction to Cultural Resource Management
   - ANTH A400 Anthropology of Religion
   - ANTH A415 Applied Anthropology
   - ANTH A425 Archaeology of Identity
   - ANTH A432 Hunting and Gathering Societies
   - ANTH A445 Evolution of Humans and Disease
   - ANTH A450 Human Evolution
   - ANTH A455 Medical Anthropology
   - ANTH A457 Food and Nutrition: An Anthropological Perspective
   - ANTH A460 Peace, War, and Violence: An Anthropological Perspective
   - ANTH A476 Ethical Issues in Archaeology
   - ANTH A480 Analytical Techniques in Archaeology
   - ANTH A481 Museum Studies in Anthropology
   - ANTH A482 Historical Archaeology
   - ANTH A484 Lithic Technology
   - ANTH A485 Human Osteology
   - ANTH A486 Applied of Human Osteology

   Note: The upper division special topics course (ANTH A490) or independent study courses (ANTH A397, ANTH A497) may be petitioned to satisfy ethnographic area or topical/theoretical course requirements, depending on course content.

6. Anthropology Electives: 6
   - Any six courses in Anthropology.

7. Complete one statistics course from the following: 3-4
   - STAT A253 Applied Statistics for the Sciences
   - STAT A307 Probability

8. A minimum of 120 credits is required for the degree, of which 42 credits must be upper division to satisfy General Education Requirements.

MINOR, ANTHROPOLOGY

Students majoring in another subject who wish to minor in Anthropology, must complete the following requirements. A total of 18 credits is required for the minor, 6 of which must be upper division.

1. Select two courses (6 credits) from the following: 6
   - ANTH A101 Introduction to Anthropology
   - ANTH A202 Cultural Anthropology
   - ANTH A205 Biological Anthropology
   - ANTH A210 Introduction to Anthropological Linguistics
   - ANTH A211 Fundamentals of Archaeology
   - ANTH A250 Rise of Civilization

2. Complete at least one course (3 credits) from either the ethnographic area or the topical/theoretical area, as specified above for majors in Anthropology: 3

3. Complete three courses (9 credits) of Anthropology electives: 9

FACULTY

Alan Boras, Professor (KPC campus), IFASB@uaa.alaska.edu
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Kerry Feldman, Professor, AFKD@uaa.alaska.edu
Christine Hanson, Professor, AFDLH@uaa.alaska.edu
Diane Hanson, Assistant Professor, AFDKDH@uaa.alaska.edu
Steve Langdon, Professor/Chair, AFSJL@uaa.alaska.edu
David Yesner, Professor, AFDRY@uaa.alaska.edu

ART

Fine Arts Building (ARTS), Room 302A, (907) 786-1783
http://art.uaa.alaska.edu

The aim of the Department of Art is to prepare and empower students to use their artistic abilities to make a difference in society. A comprehensive multi-studio approach encourages independent thinking, strengthens creativity, and develops a knowledge of the critical and historical aspects of art.

Students acquire technical skills and gain confidence to work with a variety of materials while exploring and evaluating a broad heritage of past and contemporary art and design.

PROGRAM OUTCOMES

Students graduating with a Bachelor of Arts or Bachelor of Fine Arts will be able to demonstrate:

1. Effective communication and fiscal skills to be a practicing artist as applied to art proposals, exhibitions and business matters.

2. The expression of ideas in a cohesive body of work.

3. Critical thinking, writing and research skills allowing the discovery of original approaches to creative problem solving.


Students choose from several areas of study:

- BA in Art — Creative problem solving in a liberal arts context
- BFA in Art — The Department of Art offers the Bachelor of Fine Arts Degree in Art with a Studio Emphasis in Graphic Design. Refer to the Bachelor of Fine Arts section following for degree requirements.
- Art Education — The Department of Art offers a minor in Art Education for students interested in working in educational settings. The minor does not lead to initial teacher certification.
UAA does not currently offer a teacher certification program in art. Students interested in becoming K-12 art teachers may complete the BA or BFA in Art at UAA and pursue teacher certification through the UAF School of Education post-baccalaureate licensure program.

- Continuing education — Either as a pre- or post-baccalaureate student.

The Bachelor of Arts and the Bachelor of Fine Arts are accredited by the National Association of Schools of Art and Design.

Students must note the following:
1. Some courses do not apply to degree programs.
2. Some courses may be taken for repeat credit.
3. Many Art courses require completion of certain prerequisite Art courses. Non-Art majors who wish to enroll in an Art class without first having completed the recommended prerequisites are free to do so with appropriate instructor permission, but may find the classroom experience difficult or unrewarding.
4. Art majors must obtain pre-registration approval from Art faculty for upper division Art coursework undertaken each semester.

**BACHELOR OF ARTS IN ART**

**ADMISSION REQUIREMENTS**

Complete the Baccalaureate Degree Program Admission Requirements in the front of this chapter.

**GRADUATION REQUIREMENTS**

Students must complete the following:

A. **GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for Baccalaureate Degrees in the front of this chapter. A maximum of 60 credits in Art may be applied toward the degree. Transfer students who are candidates for the BA degree with a major in Art must complete a minimum of 18 Art credits in residence.

B. **GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements for Baccalaureate Degrees in the front of this chapter.

C. **COLLEGE OF ARTS AND SCIENCES REQUIREMENTS**

Complete the College of Arts and Sciences requirements in the front of this chapter.

D. **MAJOR REQUIREMENTS**

**LOWER DIVISION ART (27 CREDITS)**

1. Complete the following core courses:
   - ART A105 Beginning Drawing (3)
   - ART A111 Two-Dimensional Design (3)
   - ART A113 Three-Dimensional Design (3)
   - ART A205 Intermediate Drawing (3)
   - ART A261 History of Western Art I (3)
   - ART A262 History of Western Art II (3)

2. Choose one two-dimensional course, one three-dimensional course, and one course from either list to total 9 credits:
   - **Two-Dimensional Area:**
     - ART A112 Color Design (3)
     - ART A213 Beginning Painting (3)
     - ART A215 Beginning Printmaking (3)
     - ART A224 Beginning Photography (3)
     - ART A257 Digital Art and Design I (3)
     - ART A271 Beginning Surface Design (3)
     - ART A273 Beginning Woven Forms (3)
   - **Three-Dimensional Area:**
     - ART A201 Beginning Handbuilt Ceramics (3)
     - ART A202 Beginning Wheelthrown Ceramics (3)

3. Complete the following core courses:
   - ART A209 Beginning Metalsmithing and Jewelry (3)
   - ART A211 Beginning Sculpture (3)
   - ART A272 Beginning Fiber Structures (3)

**UPPER DIVISION STUDIO ART (15 CREDITS)**

1. Complete a total of 15 credits in the areas of studio emphasis listed below, a minimum of 9 credits must be taken from one of the following studio areas:
   - Ceramics
   - Drawing
   - Digital Art & Graphic Design
   - Fibers
   - Jewelry/Metalsmithing
   - Painting
   - Photography
   - Printmaking
   - Sculpture

**UPPER DIVISION ART HISTORY (6 credits)**

2. Select 6 credits from the following:
   - ART 360A History of Non-Western Art I (3)
   - ART 360B History of Non-Western Art II (3)
   - ART 361 History of Graphic Design (3)
   - ART 362 History of Modern Art (3)
   - ART 363 History of Contemporary Art (3)
   - ART 364 Italian Renaissance Art (3)
   - ART 366 Asian Art (3)
   - ART 367 History of Photography (3)
   - ART 492 Art History Seminar (3)

**MISCELLANEOUS REQUIREMENTS (21 CREDITS)**

3. Complete the following:
   - PHIL A401 Aesthetics (3)
   - ART A491 Senior Seminar (Capstone) (3)
   - BA A166 Small Business Management (3)

4. Upper division general electives 15 credits

5. A total of 120 credits is required for the degree, of which 42 credits must be upper division.

**BACHELOR OF FINE ARTS, ART**

The Bachelor of Fine Arts degree is a professionally oriented program designed to prepare students for careers in art. Enrollment in the BFA program is recommended only for those students willing to make the considerable commitment of time and energy necessary to achieve professional competence in their primary area of studio emphasis. Students desiring to enter the BFA program should request a copy of the current program policy from the department.

**ADMISSION REQUIREMENTS**

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter. Admission into the BFA program, termination from it, and granting of the degree are done at the discretion of the BFA Committee.

Students admitted into the BFA program must complete a minimum of 24 art credits in residence at UAA after acceptance into the BFA program. For the transfer student, a minimum of 12 resident Art credits must be completed in the primary area of studio emphasis, and a minimum of 3 resident Art credits completed in the secondary area of studio emphasis.

Applicants for admission into the BFA program must meet the following minimum requirements:
1. Applicants must have been officially admitted to UAA and declared an intention to pursue the BFA degree.
2. Applicants must have completed all lower division foundation core requirements for the BFA degree.
3. Applicants must have been enrolled at UAA for at least one semester.
4. Applicants must meet minimum academic GPA requirements of: 2.50 overall coursework 3.00 overall Art coursework.

**BFA REQUIREMENTS**

All materials must be submitted to the Department of Art at least two weeks prior to the BFA Committee's scheduled application review.
1. Application for admission into the BFA program.
2. Letter of intent stating objectives and qualifications in relation to either the BA in Art or BFA in Art degree programs.
3. Copies of all college transcripts.
4. A list of all college art courses taken with grade received.
5. Portfolio of 15-20 pieces of studio work in primary and secondary concentrations showing technical skills, design abilities, and a potential for developing a conceptual vision. Applicants must submit work for consideration in both slide or digital formats and original works of art. Applications will be reviewed once a semester, and admission decisions are determined in October and March. Acceptance into the BFA program will be determined by a consensus of BFA Committee members at the meeting.

**ACADEMIC PROGRESS**

To graduate with a BFA in Art students must have met the following GPA requirements:

1. A minimum overall major GPA of 3.00.
2. A minimum GPA of 3.50 in the primary area of studio emphasis.
3. A minimum cumulative GPA of 2.50 in all university coursework.

**SEMESTER REVIEWS**

The progress of all BFA candidates will be reviewed a minimum of once a semester by the BFA Committee.

**THESIS PROJECT AND CAPSTONE COURSE**

With approval, upon completion of all studio courses in the student’s primary and secondary areas of emphasis, BFA candidates will enroll in ART A491 Senior Seminar offered fall semesters only, and ART A499 Thesis offered spring semester only. ART A491 meets the capstone requirement for the GER. Students enrolled in the BFA program must submit their thesis proposal for approval during the fall semester of the academic year. Once the BFA Committee has reviewed and accepted the thesis proposals, candidates will be granted permission to register for ART A499 Thesis. During ART A499 Thesis students will complete a body of work that will culminate in a formal exhibition. BFA students enrolled in ART A499 Thesis will meet with the BFA Committee a minimum of twice a semester.

The BFA Committee’s evaluation of the student’s thesis project will be based on content, presentation, and the degree of success in visual realization of the written proposal. At least 10 slides or digital images of the student’s thesis will be furnished to the Department of Art. These images must be acceptable to the BFA Committee and will become the property of the Department of Art. The slides or digital images must be received by the department before a grade for ART A499 Thesis is awarded.

**EXHIBITIONS AND PRESENTATIONS**

BFA candidates will generally participate in the BFA Group Show to be held in the Kimura Gallery. All aspects of the thesis exhibition must be approved by the BFA Committee. Works will be selected by the BFA Committee. The BFA Group Show will be held during the spring semester each year. Graduating BFA students are invited, but not required, to donate one work of art to UAA's permanent collection. Acceptance of donated student work is left to the discretion of the BFA Committee. Prior to completing all BFA requirements, the student is responsible for submitting an Application for Graduation to obtain the degree.

**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

**A. GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for Baccalaureate Degrees in the front of this chapter.

**B. GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements for Baccalaureate Degrees in the front of this chapter.

**C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS**

There are no additional college requirements for the BFA degree.

**D. MAJOR REQUIREMENTS**

Complete the following required Art courses with a minimum overall major GPA of 3.00 and a minimum GPA of 3.50 in the primary area of studio emphasis. A minimum cumulative GPA of 2.50 in all university coursework is required to graduate. A maximum of 84 credits in Art may be applied toward the degree.

**FOUNDATION CORE COURSES (24 credits)**

1. Complete the following core courses:
   - ART A105 Beginning Drawing
   - ART A111 Two-Dimensional Design
   - ART A112 Color Design
   - ART A113 Three-Dimensional Design
   - ART A205 Intermediate Drawing
   - ART A261 History of Western Art I
   - ART A262 History of Western Art II
   - ART A307 Life Drawing and Composition I

2. Choose one course from the two-dimensional list and one course from the three-dimensional list, and one course from either list to total 9 credits:
   - **Two-Dimensional Area**: 3-6 credits
     - ART A213 Beginning Painting
     - ART A215 Beginning Printmaking
     - ART A224 Beginning Photography
     - ART A257 Digital Art and Design I
     - ART A271 Beginning Surface Design
     - ART A273 Beginning Woven Forms
   - **Three-Dimensional Area**: 3-6 credits
     - ART A201 Beginning Handbuilt Ceramics
     - ART A202 Beginning Wheelthrown Ceramics
     - ART A209 Beginning Metalsmithing and Jewelry
     - ART A211 Beginning Sculpture
     - ART A272 Beginning Fiber Structures

3. Select three courses from the following:
   - ART A360A History of Non-Western Art I
   - ART A360B History of Non-Western Art II
   - ART A361 History of Graphic Design
   - ART A362 History of Modern Art
   - ART A363 History of Contemporary Art
   - ART A364 Italian Renaissance Art
   - ART A366 Asian Art
   - ART A367 History of Photography
   - ART A492 Art History Seminar

**ART HISTORY (9 credits)**

3. Select three courses from the following:
   - ART A360A History of Non-Western Art I
   - ART A360B History of Non-Western Art II
   - ART A361 History of Graphic Design
   - ART A362 History of Modern Art
   - ART A363 History of Contemporary Art
   - ART A364 Italian Renaissance Art
   - ART A366 Asian Art
   - ART A367 History of Photography
   - ART A492 Art History Seminar

**PRIMARY STUDIO CONCENTRATION (18 credits)**

Select Primary and Secondary Studio Concentrations from the following:

- Ceramics
- Drawing
- Digital Art and Graphic Design
- Jewelry & Metalsmithing
- Photography
- Printmaking
- Sculpture
- Two-Dimensional Area
- Three-Dimensional Area

4. Select a primary studio concentration from the list above and complete the following studio courses in the same discipline:
   - 200 level Beginning studio course
   - 300 level Intermediate studio course
   - 400 level Advanced studio course

5. Select a support course from following (3 credits):
ART A390  Selected Topics in Studio Art (3)
ART A490  Selected Topics in Studio Art (3)
ART A498  Individual Research (1-3)
or other by permission of advisor

SECONDARY STUDIO CONCENTRATION (9 credits)
6. Select a secondary studio concentration from the list and complete the following studio courses in the same discipline:
   200 level  Beginning studio course (3)
   300 level  Intermediate studio course (3)
   400 level  Advanced studio course (3)
   ART A390  Selected Topics in Studio Art (3)
   ART A490  Selected Topics in Studio Art (3)
   ART A498  Individual Research (1-3)

THESIS REQUIREMENTS (6 credits)
8. Complete the following courses:
   ART A491  Senior Seminar (3) (fall semesters only)
   ART A499  Thesis (3) (spring semesters only)

MISCELLANEOUS REQUIREMENTS (12 credits)
9. Complete PHIL A401 Aesthetics 3
10. Art electives (9 credits) 9
   Complete 9 credits of electives selected from art history, art education or art studio courses.
11. A total of 121 credits is required for the degree, of which 42 credits must be upper division. A total of 84 credits in Art may be applied to the degree.

MINOR, ART
Students majoring in another subject who wish to minor in Art must complete the following requirements. A total of 18 credits is required for the minor, 6 credits of which must be upper division.

ART HISTORY (6 credits)
ART A261  History of Western Art I 3
ART A262  History of Western Art II 3

DESIGN (3 credits)
ART A111  Two-Dimensional Design (3)
ART A113  Three-Dimensional Design (3)

DRAWING (3 credits)
ART A105  Beginning Drawing (3)
ART A205  Intermediate Drawing (3)
ART A305  Advanced Drawing (3)
ART A307  Life Drawing and Composition I (3)
ART A405  Experimental Drawing (3)
ART A407  Life Drawing and Composition II (3)

STUDIO (6 credits)
Studio emphasis courses 6

MINOR, ART EDUCATION
Students majoring in another discipline and Art students in the Art program must complete the following sequence of six courses for a minor in Art Education. A total of 18 credits is required for the minor. Six courses are being added as a minor in the Art Department under the heading of Art Education. The minor constitutes 18 credits and is made up of the following courses:

ART A203  Introduction to Art Education 3
ART A204  History and Philosophy of Art Education 3
ART A303  Curriculum Planning and Interpretation in Art 3
ART A304  Art Experience: Social, Cultural, and Educational 3
ART A403  Arts and Technology 3
ART A404  Diversity and Visual Culture 3

DIGITAL ART
Kenai Peninsula College – Department of Art
Brockel Building Room 137A
www.kpc.alaska.edu

Contact: Celia Anderson (907) 262-0359, ifcra@kpc.alaska.edu or Jayne Jones, (907) 262-0374 iffmj@kpc.alaska.edu

Advising for this program is only available from the Art faculty at Kenai Peninsula College. Please call (907) 262-0359 or (877) 262-0330 for more information.

The Associate of Applied Science in Digital Art is currently only offered at Kenai Peninsula College. Graduates of this two-year program at Kenai Peninsula College will be knowledgeable in digital camera operation and imaging software, quality printing techniques, and available industry services. Students develop skills that are applicable to either the digital arts industry or the creation of fine art.

The program is designed so that graduates:
• Are prepared for entry-level positions, able to advance in their careers, or integrate digital skills for personal artistic expression.
• Can successfully integrate into a more advanced, specialized digital art program.
• Are well versed in a variety of digital tools and can adapt easily to new technological advances.
• Use judgmental skills to create and edit expressive visual imagery.
• Utilize knowledge of art history as taught in core curriculum to help create and assess effective design.
• Develop unique design solutions and work easily with restrictions of a given job assignment.
• Can contribute in a professional manner within a digital art environment or related field.

Theory will be presented and opportunities for practice will enable students to:
• Effectively utilize a variety of the following digital resources and art tools to create images for commercial, design, fine art applications or personal use:
  Digital/ film cameras
  Imaging and design software
  Film and flatbed scanners
  Printers
  Service bureaus
• Create expressive imagery and evaluate its effectiveness through the critiquing process.
• Draw on their knowledge of historical and contemporary art in the development of their own work.
• Identify and achieve competence in art and craft appropriate for advancement to a more specialized degree.
• Conceptualize ideas and develop unique solutions to design problems.
• Demonstrate professional skills applicable to the creative arts workplace.
The Digital Art degree graduate will be prepared for entry-level positions in the photographic industry and graphic arts support services. Possibilities include entry-level assistantships for commercial or corporate photography studios, professional internships, lab assistants, production assistants or entry-level positions in small businesses. The Associate of Applied Science in Digital Art is a launchpad to a professional application or to further education in a specialized digital art program.* Students wishing to earn a Bachelors of Arts in Art with UAA will need to complete all applicable General Education and College of Arts and Sciences Requirements for Baccalaureate Degrees. The majority of art core course requirements will be satisfied (see Advising below).

*Transfer of credits for institutions outside the UAA system is not guaranteed. Each university and college makes its decision autonomously. The student should have a strong portfolio and be knowledgeable in their areas of concentration.

**ADVISORY FOR BACHELORS OF ARTS DEGREE**

It is particularly important for students to meet with their advisor each semester for the purpose of reviewing their academic progress and planning enrollment in future courses. AAS students who intend to pursue a baccalaureate degree should consult a faculty or academic advisor for appropriate course selections.

Many of the Digital Art program courses require students to demonstrate a level of computer competency evidenced by completion of a course using one or more of the following applications: word processing, spreadsheets, databases, and communications, or an introductory course in data processing, microcomputers, or image editing.

It is the student’s responsibility to design their course of study with Digital Art faculty in the Department of Art at Kenai Peninsula College to ensure all prerequisites and computer competencies have been met and that the university and major degree requirements are understood and followed.

**ASSOCIATE OF APPLIED SCIENCE, DIGITAL ART**

**ADMISSION REQUIREMENTS FOR DEGREE COMPLETION**

Satisfy the Admission to Certificate and Associate Degree Program Requirements in Chapter 7, Academic Standards and Regulations.

**GRADUATION REQUIREMENTS**

Students are required to make a presentation of portfolio work before the Digital Art Program Advisory Board in their graduating semester.

Students must complete the following graduation requirements:

**A. GENERAL UNIVERSITY REQUIREMENTS**

1. Complete the General University Requirements for Associate Degree Programs located at the beginning of this chapter.
2. Complete the Associate of Applied Science General Degree Requirements (15 credits) located at the beginning of this chapter.

**B. MAJOR REQUIREMENTS**

Complete the following Digital Art core courses (18 Credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART A105</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART A111</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART A112</td>
<td>Color Design</td>
<td>3</td>
</tr>
<tr>
<td>ART A257</td>
<td>Digital Art and Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART A261</td>
<td>History of Western Art I</td>
<td>3</td>
</tr>
<tr>
<td>ART A262</td>
<td>History of Western Art II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Digital Arts Specialty: Areas of Concentration**

**A. DIGITAL PHOTOGRAPHY CONCENTRATION**

Complete the following Digital Photography Concentration (27 Credits Total):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART A220</td>
<td>Digital Imaging for Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART A225</td>
<td>Beginning Photography - Digital</td>
<td>3</td>
</tr>
<tr>
<td>ART A228</td>
<td>Art as a Profession</td>
<td>3</td>
</tr>
<tr>
<td>ART A323</td>
<td>Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART A325</td>
<td>Digital Media for Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART A367</td>
<td>History of Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

**B. DARKROOM/DIGITAL PHOTOGRAPHY CONCENTRATION**

Complete the following Digital Art core courses (18 Credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART A220</td>
<td>Digital Imaging for Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART A224</td>
<td>Beginning Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART A228</td>
<td>Art as a Profession</td>
<td>3</td>
</tr>
<tr>
<td>ART A323</td>
<td>Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART A325</td>
<td>Digital Media for Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART A295V</td>
<td>Internship/Visual Art I</td>
<td>3</td>
</tr>
<tr>
<td>ART A367</td>
<td>History of Photography</td>
<td>3</td>
</tr>
<tr>
<td>BA A166</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BA A260</td>
<td>Marketing Practices</td>
<td>3</td>
</tr>
<tr>
<td>JPC A101</td>
<td>Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>JPC A201</td>
<td>Reporting and Writing News</td>
<td>3</td>
</tr>
<tr>
<td>JPC A211</td>
<td>Visual Literacy</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives (9 credits minimum):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART A113</td>
<td>Three-Dimensional Design</td>
<td>3</td>
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<tr>
<td>ART A205</td>
<td>Intermediate Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART A213</td>
<td>Beginning Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART A215</td>
<td>Beginning Printmaking</td>
<td>3</td>
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<tr>
<td>ART A224</td>
<td>Beginning Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART A295V</td>
<td>Internship/Visual Art I</td>
<td>3</td>
</tr>
<tr>
<td>BA A166</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BA A260</td>
<td>Marketing Practices</td>
<td>3</td>
</tr>
<tr>
<td>JPC A101</td>
<td>Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>JPC A201</td>
<td>Reporting and Writing News</td>
<td>3</td>
</tr>
<tr>
<td>JPC A211</td>
<td>Visual Literacy</td>
<td>3</td>
</tr>
</tbody>
</table>

**Special Note:** Program may take longer than two years depending upon scheduling and availability of classes.

**FACULTY**

Celia Anderson, Associate Professor, IFCRA@uaa.alaska.edu
Jayne Jones, Assistant Professor, IFJM@uaa.alaska.edu

**BIOLOGICAL SCIENCES**

ConocoPhillips Integrated Sciences Building (CPSB), Room 101, (907) 786-4770
http://biology.uaa.alaska.edu

The WWAMI/Biomedical program may be found at http://biomed.uaa.alaska.edu

Biology is the science concerned with the study of living organisms. It encompasses a vast range of biological disciplines, from the study of microbes and molecular biology to the study of plants, animals and the environment. The undergraduate program in the Biological Sciences includes courses that provide students with a broad understanding of both traditional and modern biological sciences. These courses are suitable as preparation for professional degrees, for teaching, or for careers in government or industry. Both the Bachelor of Arts and the Bachelor of Science degrees are available for undergraduates. A Master of Science degree program in Biological Sciences as well as a joint UAA-UAF Doctor of Science degree program is available for students already holding the baccalaureate degree.
A program of study in the biological sciences requires completion of a basic science core curriculum in the chemical, physical and mathematical sciences as well as required and elective courses in the biological sciences. Two general divisions are recognized in the biology program: the cell-molecular and the organismal-ecology-evolution areas. The cell-molecular area focuses on preprofessional sciences for students wishing to pursue careers in medicine, dentistry, and veterinary medicine, or who wish to attend graduate school. The organismal-ecology-evolution area is a more diversified curriculum emphasizing environmental, organismal, evolutionary, and general biological sciences preparatory for graduate school or for employment in the private or public sector. Students are strongly encouraged to consult with their academic advisors within the Department of Biological Sciences to determine which electives best suit their programmatic needs and career requirements.

The Bachelor of Arts and the Bachelor of Science degree programs require a total of 124-125 credits for graduation and can be completed in four years by students who have had adequate high school preparation in math and sciences. Refer to the beginning of this chapter for recommended high school courses.

**PROGRAM OBJECTIVES AND EXPECTED OUTCOMES**

The curriculum of the UAA Biological Sciences program is designed to produce graduates who:

1. Have a basic knowledge of the principles relating to the biological sciences with an emphasis in either molecular or organismal biology.
2. Have an ability to think critically, dissect problems, and offer solutions.
3. Have developed written and oral communications skills consistent with a career in biological sciences.
4. Have developed sufficient competency in knowledge and skills to obtain employment as an entry level biologist and be able to progress professionally within the discipline.
5. Have developed a mental attitude that learning is a lifetime occupation to maintain relevancy in the biological profession.

In keeping with the objectives, it is expected that graduates of the Biological Sciences program will have:

1. An ability to apply their knowledge of general biology to the workplace or higher education pursuits.
2. An ability to accept challenges and think through problems until solutions are derived and effectively communicate the solutions to supervisors.
3. An ability to design and conduct projects that include fieldwork, laboratory analyses, and interpretation in the discipline.
4. An ability to recognize that education does not stop at graduation, but looks to continuing education as a professional responsibility.

**COMMUNITY SERVICE COURSES**

The department offers a wide range of community service courses as a service to the people in the Anchorage area and extended campuses who wish to become more knowledgeable about the science of biology and how it relates to them. Unless noted otherwise in the course description, community service courses do not satisfy either core requirements or elective credit towards any degree programs in the biological sciences. All are offered as demand warrants.

- BIOL A074 Field Natural History
- BIOL A075 Local Flora
- BIOL A100 Human Biology
- BIOL A104 Natural History of Alaska
- BIOL A124 Biota of Alaska: Selected Topics
- BIOL A126 Birds in Field and Laboratory

**DEPARTMENTAL HONORS IN BIOLOGY**

Undergraduate Biological Science majors may be recognized for exceptional performance by earning Departmental Honors in Biology. In order to receive honors in biology, a student must meet each of the following requirements:

1. Meet the requirements for Graduation with Honors as listed in Chapter 7 of the UAA catalog.
2. Meet the requirements for a BA/BS degree in Biological Sciences.
3. Earn a grade point average of 3.50 or above in the major requirements.
4. During the senior year of their academic program, the student must gain faculty approval for and complete, with a grade of B or better a senior thesis research project, with enrollment in BIOL A499 Senior Thesis. Biological Science faculty members must approve the project proposal and final written report.

**BACHELOR OF ARTS, BIOLOGICAL SCIENCES**

**ADMISSION REQUIREMENTS**

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

**ACADEMIC PROGRESS**

In order to graduate with a BA in Biological Sciences, all courses covered under Major Requirements for a BA in Biological Sciences must be completed with a grade of C or better. Students who audit a course in biology or who are unable to earn a grade of C or better in the course may repeat the course. All prerequisites for biology courses must be completed with a grade of C or better. Students repeating a course in the Department of Biological Sciences are required to complete all components of the course during the semester in which the course is retaken. For a course with a lecture and laboratory component, students may not carry forward an individual lecture or laboratory grade from a previous semester in which the course was taken.

**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

**A. GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.

**B. GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

**C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS**

Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.

**D. MAJOR REQUIREMENTS**

1. Complete these required core courses:
   - BIOL A115/L Fundamentals of Biology I with Laboratory 4
   - BIOL A116/L Fundamentals of Biology II with Laboratory 4
   - BIOL A242/L Fundamentals of Cell Biology with Laboratory 4
   - BIOL A252/L Principles of Genetics with Laboratory 4
   - BIOL A310/L Principles of Physiology with Laboratory 4
   - BIOL A316 Introduction to Plant Physiology (3) or
   - BIOL A415 Comparative Animal Physiology (3)
   - BIOL A492 Undergraduate Seminar 1
   - CHEM A105 General Chemistry I 3
   - CHEM A105L General Chemistry I Laboratory 1
   - CHEM A106 General Chemistry II 3
   - CHEM A106L General Chemistry II Laboratory 1

2. It is recommended that students complete 8 credits from the following:
   - GEOL A111 Physical Geology (4)
   - GEOL A221 Historical Geology (4)
   - PHYS A123 Basic Physics I (3) and
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS
1. Some major requirements may also be used to satisfy the College of Arts and Sciences B5 requirements.
2. Complete these required support courses:
   - CHEM A105 General Chemistry I 3
   - CHEM A105L General Chemistry I Laboratory 1
   - CHEM A106 General Chemistry II 3
   - CHEM A106L General Chemistry II Laboratory 1

3. Complete 15-17 credits of upper division program electives from the following areas:
   - Ecology 3-4
   - Microbiology 4-5
   - Biology electives 8

4. A total of 124 credits is required for the degree, of which 42 credits must be upper division.

BACHELOR OF SCIENCE, BIOLOGICAL SCIENCES
The Bachelor of Science degree includes a single core program of coursework with two areas of study. Completing courses from the cellular and molecular biology area prepares students for professional careers in areas such as medicine, dentistry, and veterinary science. Completing courses from the organismal, ecology, and evolutionary area prepares students for careers in environmental, organismal, and evolutionary biology. A wide selection of electives is available to all students, including courses offered under BIOL A394 and BIOL A490, which are our selected topics courses. It is imperative that students consult their academic advisors within the Department of Biological Sciences to determine which electives are most appropriate to their career interests. Some of these elective courses are offered periodically, depending on demand. Refer to course descriptions to identify these courses.

ADMISSION REQUIREMENTS
Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

ACADEMIC PROGRESS
In order to graduate with a BS in Biological Sciences, all courses covered under Major Requirements for a BS in Biological Sciences must be completed with a grade of C or better. Students who audit a course in biology or who are unable to earn a grade of C or better in the course may repeat the course. All prerequisites for biology courses must be completed with a grade of C or better. Students repeating a course in the Department of Biological Sciences are required to complete all components of the course during the semester in which the course is retaken. For a course with a lecture and laboratory component, students may not carry forward an individual lecture or laboratory grade from a previous semester in which the course was taken.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

a. Recommended electives in cellular and molecular biology:
   - BIOL A451 Applied Microbiology (3)
   - BIOL A452 Human Genome* (3)
   - BIOL A461 Molecular Biology (3)
   - BIOL A461L Molecular Biology Laboratory (1)
   - BIOL A462 Virology (3)
   - BIOL A471 Immunohemistry (4)
   - BIOL A488 Developmental Biology (4)

b. Recommended elective courses in organismal, ecology and evolutionary biology:
Botany
BIOL A316 Introduction to Plant Physiology (3)
BIOL A331 Systematic Botany (4)
BIOL A333 Biology of Non-vascular Plants (4)
BIOL A334 Biology of Vascular Plants (4)
BIOL A479 Physiological Plant Ecology (3)

Zoology
BIOL A327 Parasitology (4)
BIOL A415 Comparative Animal Physiology (3)
BIOL A423 Ichthyology (4)
BIOL A425 Mammalogy (4)
BIOL A426 Ornithology (4)
BIOL A427 Invertebrate Zoology (4)
BIOL A487 Comparative Anatomy of Vertebrates (4)

Ecology-Systems
BIOL A309 Biogeography (3)
BIOL A373 Conservation Biology (3)
BIOL A378 Marine Biology (3)
BIOL A430 Marine Mammal Biology (4)
BIOL A441 Animal Behavior (4)
BIOL A445 Plant-Herbivore Ecology (4)
BIOL A450 Microbial Ecology (3)
BIOL A477 Tundra and Taiga Ecosystems (3)
BIOL A478 Biological Oceanography (4)
BIOL A479 Physiological Plant Ecology (3)
BIOL A489 Population Genetics and Evolutionary Processes* (3)

Techniques
BIOL A403 Microtechnique (4)
BIOL A495 Instructional Practicum: Laboratory (1)

5. Special topics, independent study and individual research (credits vary):
   BIOL A456 Nonlinear Dynamics and Chaos (3)
   BIOL A490 Selected Lecture Topics in Biology (1-3)
   BIOL A490L Selected Laboratory Topics in Biology (1-3)
   BIOL A497 Independent Study in Biology
   BIOL A498 Individual Research
   BIOL A499 Senior Thesis (3)

*Integrative capstone courses

A total of 122-125 credits is required for the degree, of which 42 credits must be upper division.

BACHELOR OF SCIENCE, NATURAL SCIENCES

The Department of Biological Sciences also oversees the Bachelor of Science in Natural Sciences. This curriculum emphasizes the interrelationships among the sciences. This flexible degree program can be used to meet admissions requirements of specific professional schools in medicine, dentistry, and veterinary medicine. It is also designed for health sciences practitioners who wish to obtain a stronger background in both the biological and chemical sciences, and for those preparing to teach science at the secondary level.

For a complete program description see the Natural Sciences section of this chapter.

MINOR, BIOLOGICAL SCIENCES

Students majoring in another subject who wish to minor in Biological Sciences must complete the following requirements. A total of 28 credits is required for the minor, 12 of which must be upper division.

BIOL A115/L Fundamentals of Biology I with Laboratory 4
BIOL A116/L Fundamentals of Biology II with Laboratory 4
BIOL A242/L Fundamentals of Cell Biology with Laboratory 4
BIOL A252/L Principles of Genetics with Laboratory 4
Upper division Biological Sciences electives 12

CHEMISTRY

ConocoPhillips Integrated Sciences Building (CPSB), Room 101, (907) 786-1238
http://chem.uaa.alaska.edu

Chemistry is the science concerned with substances and their properties, composition, and reactions. Recent advances in chemistry have exerted a profound influence on the progress of medicine, agriculture, industry, and commerce.

The undergraduate courses in Chemistry offered at UAA are designed primarily to provide a broad knowledge of the field as a part of the program of liberal education offered by the College of Arts and Sciences. They are also designed to provide a substantial foundation in chemistry for students interested in post-graduate studies in chemistry or the other sciences, preparation for professional degrees, teaching, or a career in government or industry. Students majoring in Chemistry will meet basic course requirements in inorganic, analytical, organic, physical chemistry and biochemistry.

The biochemistry option is designed for students who prefer a more biologically oriented approach to chemistry. During the past 25 years, biochemistry has become a central scientific discipline linking the chemical, physical, and biological sciences. By applying the concepts and methods of chemistry to the problems of biology, biochemists have made great progress in explaining life in chemical terms.

HIGH SCHOOL PREPARATION

The Bachelor of Science in Chemistry with options in Chemistry or Biochemistry is a four-year baccalaureate program which assumes a proper high school preparation. Consult the College of Arts and Sciences list of recommended preparatory courses in all disciplines. The specific coursework which a freshman student must have mastered for admission to the Chemistry program without a deficiency includes:

- Integrative capstone courses
- A total of 122-125 credits is required for the degree, of which 42 credits must be upper division.

For a complete program description see the Natural Sciences section of this chapter.
5. Notify the Departmental Honors Committee in writing at the time of application.

4. Complete, with distinction, a written assignment in the style of a chemical journal based on the research performed in CHEM A498.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

B. GENERAL EDUCATION REQUIREMENTS

A. GENERAL UNIVERSITY REQUIREMENTS

Students must complete the following graduation requirements:

D. MAJOR REQUIREMENTS

Students are strongly encouraged to talk to a faculty advisor in the Chemistry Department to insure that the necessary math and science courses are taken in the first two years of study.

1. Students working toward a degree in Chemistry can choose one of two options:

Chemistry Option (82-83 credits)

Complete the following required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL A115</td>
<td>Fundamentals of Biology I</td>
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<tr>
<td>CHEM A105</td>
<td>General Chemistry I</td>
<td>3</td>
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<tr>
<td>CHEM A105L</td>
<td>General Chemistry I Laboratory</td>
<td>1</td>
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<tr>
<td>CHEM A106</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A106L</td>
<td>General Chemistry II Laboratory</td>
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</tr>
<tr>
<td>CHEM A212</td>
<td>Quantitative Analysis</td>
<td>5</td>
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<tr>
<td>CHEM A253</td>
<td>Principles of Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A321</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A322</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A323L</td>
<td>Organic Chemistry Laboratory</td>
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<tr>
<td>CHEM A331</td>
<td>Physical Chemistry I</td>
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<td>CHEM A332</td>
<td>Physical Chemistry II</td>
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</tr>
<tr>
<td>CHEM A333L</td>
<td>Physical Chemistry Laboratory</td>
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<tr>
<td>CHEM A434</td>
<td>Instrumental Methods</td>
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<tr>
<td>CHEM A441</td>
<td>Principles of Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A453</td>
<td>Advanced Inorganic Chemistry</td>
<td>5</td>
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<tr>
<td>CHEM A492</td>
<td>Undergraduate Seminar (1)</td>
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<td>CHEM A498</td>
<td>Individual Research (3)</td>
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<td>MATH A200</td>
<td>Calculus I</td>
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<td>MATH A201</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>MATH A202</td>
<td>Calculus III</td>
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<tr>
<td>MATH A314</td>
<td>Linear Algebra</td>
<td>3</td>
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<tr>
<td>PHYS A211</td>
<td>General Physics I</td>
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<td>PHYS A211L</td>
<td>General Physics I Laboratory</td>
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<td>PHYS A212</td>
<td>General Physics II</td>
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<tr>
<td>PHYS A212L</td>
<td>General Physics II Laboratory</td>
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Upper division elective (choose one of the following)

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL A310</td>
<td>Principles of Physiology (3)</td>
<td></td>
</tr>
<tr>
<td>BIOL A415</td>
<td>Comparative Animal Physiology (4)</td>
<td></td>
</tr>
<tr>
<td>BIOL A461</td>
<td>Molecular Biology (3)</td>
<td></td>
</tr>
<tr>
<td>CHEM A442</td>
<td>Principles of Biochemistry II (3)</td>
<td></td>
</tr>
<tr>
<td>CHEM A450</td>
<td>Environmental Chemistry (3)</td>
<td></td>
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<tr>
<td>CHEM A456</td>
<td>Non-linear Dynamics and Chaos (3)</td>
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<tr>
<td>CHEM A460</td>
<td>Chemical Ecotoxicology (3)</td>
<td></td>
</tr>
<tr>
<td>CHEM A471</td>
<td>Immunochemistry (4)</td>
<td></td>
</tr>
<tr>
<td>GEOL A321</td>
<td>Mineralogy (4)</td>
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<tr>
<td>GEOL A360</td>
<td>Geochemistry (3)</td>
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<td>GEOL A460</td>
<td>Environmental Geochemistry (3)</td>
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<tr>
<td>MATH A302</td>
<td>Ordinary Differential Equations</td>
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<td>MATH A422</td>
<td>Partial Differential Equations</td>
<td></td>
</tr>
<tr>
<td>PHYS A303</td>
<td>Modern Physics (3)</td>
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<tr>
<td>PHYS A320</td>
<td>Simulation of Physical Systems</td>
<td></td>
</tr>
<tr>
<td>PHYS A403</td>
<td>Quantum Mechanics (3)</td>
<td></td>
</tr>
<tr>
<td>PHYS A413</td>
<td>Statistical Methods (3)</td>
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Biochemistry Option (86-87 credits)

Complete the following required courses:

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<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL A115</td>
<td>Fundamentals of Biology I</td>
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<tr>
<td>BIOL A116</td>
<td>Fundamentals of Biology II</td>
<td>4</td>
</tr>
<tr>
<td>BIOL A242</td>
<td>Fundamentals of Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL A252</td>
<td>Principles of Genetics</td>
<td>4</td>
</tr>
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</table>

Upper division biology (choose one of the following)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL A310</td>
<td>Principles of Physiology (3)</td>
<td></td>
</tr>
<tr>
<td>BIOL A415</td>
<td>Comparative Animal Physiology (4)</td>
<td></td>
</tr>
<tr>
<td>BIOL A461</td>
<td>Molecular Biology (3)</td>
<td></td>
</tr>
<tr>
<td>CHEM A105</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A105L</td>
<td>General Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM A106</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.
The minor in Communication introduces students to communication theory and practical experience in particular areas of communication, for example interpersonal communication or public communication. The minor develops understanding and skills which are valuable in a variety of different majors and professions.

**MINOR, COMMUNICATION**

Students majoring in another subject who wish to minor in Communication must complete the following requirements. A total of 18 credits is required for the minor.

Select 9 credits from the following: 9
- COMM A101 Introduction to Human Communication (3)
- COMM A111 Fundamentals of Oral Communication (3)
- COMM A235 Small Group Communication (3)
- COMM A237 Interpersonal Communication (3)
- COMM A241 Public Speaking (3)

Select 9 credits from the following: 9
- COMM A236 Interviewing (3)
- COMM A305 Intercultural Communication (3)
- COMM A320 Debate and Deliberation (3)
- COMM A340 Nonverbal Communication (3)
- COMM A346 Oral Interpretation (3)
- COMM A360 Forensics (3)
- COMM A380 Theories of Human Communication (3)
- COMM A390 Selected Topics in Communication (6)
- COMM A412 Persuasion (3)

**FACULTY**

Communication and Discourse Studies:
- Lauren Bruce, Associate Professor, AFLKB@uaa.alaska.edu
- Steve Johnson, Associate Professor, AFSLJ@uaa.alaska.edu
- Doug Parry, Professor, AFDP@uaa.alaska.edu
- Sharonalee Whitney, Associate Professor, AFSAW@uaa.alaska.edu

Communication and Human Behavior:
- Barbara Harville, Associate Professor, AFBAH@uaa.alaska.edu
- Marcia Stratton, Associate Professor, AFMR@uaa.alaska.edu

**COMPUTER SCIENCE**

The Department of Mathematical Sciences offers courses covering the major areas of computer science. These courses constitute the basis for an undergraduate major that prepares students for a variety of professional and technical careers in business; industry; and government, or for graduate work leading to advanced degrees. In addition, the department offers courses for students from other fields that will use computer science as a tool in their own areas.

The department offers two degrees in computer science: the Bachelor of Arts in Computer Science, and the Bachelor of Science in Computer Science. The BA degree gives the student the opportunity to obtain a liberal arts background while the BS program gives the student the opportunity to pursue a sciences background. The BS degree is recommended for those seeking to pursue a graduate degree in computer science.

Both degrees prepare the student to pursue a professional career in the computing field and are based on the 2001 computing curriculum guidelines developed by the Association for Computing Machinery (ACM) and the ABET Inc.’s Computing Accreditation Commission (CAC). The core of both degrees emphasizes broad fundamental principles of computer science and teaches the student the necessary skills to develop solutions using current or future technology. The core topics include computer programming, systems organization, software development, and algorithms.

**COMMUNICATION**

Communication and Discourse Studies

**Social Sciences Building (SSB), Room 154, (907) 786-1744/786-4824**

www.math.uaa.alaska.edu

The study of communication provides students with an understanding of how individuals create and interpret verbal and nonverbal messages. The Department of Communication is divided into two units: Communication and Discourse Studies, and Communication and Human Behavior. Each unit offers a body of courses focusing upon different contexts of communication and different approaches to the study of this complex field.

The minor in Communication introduces students to communication theory and practical experience in particular areas of communication,
engineering, databases, and theory. Upon completion of the core topics, the student may select electives that explore specific areas of computer science, such as computer graphics, architecture, or intelligent systems.

HONORS IN COMPUTER SCIENCE
Students majoring in Computer Science are eligible to graduate with departmental honors if they satisfy the following requirements:
1. Meet the requirements for Graduation with Honors as listed in Chapter 7 of this UAA catalog.
2. Meet the requirements for a BA/BS degree in Computer Science.
3. Earn a grade point average of 3.50 or above in the major requirements.
4. Complete a minimum of 12 upper division credits required for the major in residence.

BACHELOR OF ARTS, COMPUTER SCIENCE
ADMISSION REQUIREMENTS
Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:
A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.
B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.
C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences Requirements for a BA degree listed at the beginning of the CAS section.
D. MAJOR REQUIREMENTS
1. Complete the following core courses (33 credits)
   - CS A201 Programming Concepts I 3
   - CS A202 Programming Concepts II 3
   - CS A221 Computer Organization and Assembly Programming 3
   - CS A320 Operating Systems 3
   - CS A330 Algorithms and Data Structures 3
   - CS A331 Programming Language Concepts 3
   - CS A342 Networks 3
   - CS A351 Automata, Algorithms, and Complexity 3
   - CS A360 Database Systems 3
   - CS A401 Software Engineering 3
   - CS A470 Applied Software Development Project (3) 3
   or
   - CS A495 Internship Project (3)
2. Complete the following required support courses (12-14 credits):
   - MATH A200 Calculus I (4) 3-4
   or
   - MATH A272 Applied Calculus (3)
   - MATH A231 Introduction to Discrete Mathematics 3
   - STAT A253 Applied Statistics for the Sciences (4) 3-4
   or
   - STAT A307 Probability (3)
   - ENGL A312 Advanced Technical Writing (3) 3
   or
   - ENGL A414 Research Writing (3)
3. Complete an additional 15 upper division credits in Computer Science, Mathematics (excluding MATH A420 and MATH A495), or Statistics. Nine of these credits must be in Computer Science. A maximum of 3 credits of CS A395 may be applied to degree requirements.
4. A grade of C or higher must be received in all MATH, CS, and STAT courses required to satisfy the above program requirements.
5. All computer science majors must take a standardized test of knowledge of computer science approved by the computer science faculty for the purpose of evaluating program effectiveness. There is no minimum score required for graduation. This test will normally be taken during the senior year.
6. Students are encouraged to develop their program with a Computer Science advisor.
7. A total of 120 credits is required for the degree, of which 42 credits must be upper division.

BACHELOR OF SCIENCE, COMPUTER SCIENCE
ADMISSION REQUIREMENTS
Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:
A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.
B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.
C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences Requirements for a BS degree listed at the beginning of the CAS section.
D. MAJOR REQUIREMENTS
1. Complete the following core courses (37 credits):
   - CS A201 Programming Concepts I 3
   - CS A202 Programming Concepts II 3
   - CS A221 Computer Organization and Assembly Programming 3
   - CS/EE A241 Computer Hardware Concepts 4
   - CS A320 Operating Systems 3
   - CS A330 Algorithms and Data Structures 3
   - CS A331 Programming Language Concepts 3
   - CS A342 Networks 3
   - CS A351 Automata, Algorithms, and Complexity 3
   - CS A360 Database Systems 3
   - CS A401 Software Engineering 3
   - CS A470 Applied Software Development Project (3) 3
   or
   - CS A495 Internship Project (3)
2. Complete the following required support courses (25 credits):
   - MATH A200 Calculus I 4
   or
   - MATH A201 Calculus II 4
   - MATH A231 Introduction to Discrete Mathematics 3
   - STAT A307 Probability (3)
   - PHYS A123/L Basic Physics I (4) 3
   or
   - PHYS A211/L General Physics I (4)
   - PHYS A124/L Basic Physics II (4) 4
   or
   - PHYS A212/L General Physics II (4)
3. Complete an additional 12 upper division credits in Computer Science, Mathematics (excluding MATH A420 and MATH A495), or Statistics. Nine of these credits must be in Computer Science. A maximum of 3 credits of CS A395 may be applied to degree requirements.

4. A grade of C or higher must be received in all MATH, CS, and STAT courses required to satisfy the above program requirements.

5. All computer science majors must take a standardized test of knowledge of computer science approved by the computer science faculty for the purpose of evaluating program effectiveness. There is no minimum score required for graduation. This test will normally be taken during the senior year.

6. Students are encouraged to develop their program with a Computer Science advisor.

7. A total of 120 credits is required for the degree, of which 42 credits must be upper division.

MINOR, COMPUTER SCIENCE

Students majoring in another subject who wish to minor in Computer Science must complete the following requirements:

1. Complete the five required courses:
   - CS A101 Introduction to Computer Science 3
   - CS A201 Programming Concepts I 3
   - CS A202 Programming Concepts II 3
   - CS A221 Computer Organization and Assembly Programming 3
   - MATH A231 Introduction to Discrete Mathematics 3

2. Complete 9 credits of upper division Computer Science courses.

3. A total of 24 credits is required for the minor.

FACULTY

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ENGLISH

Administration/Humanities Building (ADM), Room 101, (907) 786-4355
http://english.uaa.alaska.edu/

The programs offered by the Department of English provide an opportunity for a truly liberal education, one that encourages both self-discovery and an exploration of enduring ideas. The curriculum includes courses in composition, rhetoric, literature, linguistics, and thinking strategies. The composition program provides courses that fulfill the university's General Education Requirement in written communication. More advanced writing courses offer opportunities for students to develop skill in electronic communication, disciplinary writing, and research.

Students who major in English choose one of three options: literature, rhetoric and language, or education. The literature option focuses on significant examples of literature from different periods and genres, as well as the social and cultural forces that shape them. The rhetoric and language option focuses on rhetorical strategies and techniques of composition, emphasizing historical and theoretical perspectives in contemporary settings. The education option prepares students for teaching literature and writing at the middle school and secondary levels, and for admission to UAA's Master of Arts in Teaching program.

All three options prepare majors to conduct research in the discipline and to write for a variety of purposes and audiences. In addition, all three options offer the opportunity to earn honors in English.

The Literature minor enhances the experience of students majoring in other subjects by providing a study of significant authors and literary works, as well as by developing skills in writing and critical analysis.

The Professional Writing minor prepares students to interpret and present complex information in a readable form to various audiences using a variety of media, including written words, illustrations, digital multimedia, online help systems, websites, and videos. The minor develops strong language, visual, and analytical skills, as well as aptitude for technical information, particularly in the industry in which students plan to work: computer science, engineering, medicine, aerospace, or business.

The Linguistics minor is designed for non-English majors who wish to build a foundation in linguistic studies for complementary majors, such as Anthropology and Languages, and for those who are interested in the study and teaching of languages. The minor includes two introductory courses and four elective courses which are offered through the Anthropology and English departments. Most courses emphasize the structure of the English language.

For information on English placement tests, challenge exams, transfer credits, petition procedures, or special registration, contact the English Department.

HONORS IN ENGLISH

The Department of English recognizes exceptional undergraduate students by awarding them departmental honors in English. Honors in English may be coordinated with the UAA Honors Program. To graduate with Departmental Honors, the student must be a declared English major, satisfy all requirements for a BA degree in English (literature, rhetoric, or education option), and meet the following requirements:

1. Meet the requirements for Graduation with Honors as listed in Chapter 7 of this catalog.
2. Maintain a GPA of 3.50 in all courses in the English major.
3. Complete 6 credits of the following 400-level topics courses with a grade of A:
   - ENGL A403: Topics in Autobiography (3)
   - ENGL A404: Topics in Women's Literature (3)
   - ENGL A429: Major Authors (3)
   - ENGL A440: Topics in Comparative Literature (3)
   - ENGL A444: Topics in Native Literatures (3)
   - ENGL A490: Selected Topics in English (1-3)
   - ENGL A491: Topics in Composition and Rhetoric (3)
4. Complete ENGL A499 English Honors Thesis, with a grade of A in the judgment of two faculty readers. The thesis must be completed under the guidance of a member of the English faculty and should be 30-40 pages in length. Students are encouraged to enroll concurrently in ENGL A414 Research Writing.

BACHELOR OF ARTS, ENGLISH

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.
B. General Education Requirements
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. College of Arts and Sciences Requirements
Complete the College of Arts and Sciences requirements listed at the beginning of the CAS section.

D. Major Requirements
Students working toward a degree in English may choose from three options: literature, rhetoric and language, or education.

1. Complete the following core courses (15 credits):
   - ENGL A201 Masterpieces of World Literature I 3
   - ENGL A202 Masterpieces of World Literature II 3
   - ENGL A351 Poetry 3
   - ENGL A434 History of Rhetoric 3
   - ENGL A435 History of Criticism 3

2. Complete one of the following options:

   Literacy Option (24 credits)
   - Complete 3 credits from national literatures: 3
     - ENGL A301 Literature of Britain I (3)
     - ENGL A302 Literature of Britain II (3)
     - ENGL A305 National Literatures in English (3)
     - ENGL A306 Literature of the United States I (3)
     - ENGL A307 Literature of the United States II (3)
   - Complete 3 credits each period: 9
     - Early
       - ENGL A310 Literature of the Ancient (3)
       - ENGL A315 Medieval Literature (3)
       - ENGL A320 Renaissance Literature (3)
     - Middle
       - ENGL A325 Neoclassical Literature (3)
       - ENGL A330 Literature of Romanticism (3)
       - ENGL A340 The Victorian Period (3)
     - Late
       - ENGL A342 The Modernist Period (3)
       - ENGL A343 Modern and Contemporary Literature (3)
       - ENGL A440 Topics in Comparative Literature (3)
   - Complete 3 credits from genre: 3
     - ENGL A361 The Novel (3)
     - ENGL A363 Short Story (3)
     - ENGL A371 Narrative Nonfiction (3)
     - ENGL A381 Drama (3)
     - ENGL A383 Film Interpretation (3)
     - ENGL A391 Genres of Subject and Theme (3)
   - Complete 6 credits from specialized studies: 6
     - ENGL A424 Shakespeare (3)
     - ENGL A431 Advanced Composition (3)
     - ENGL A432 Advanced Technical Writing (3)
     - ENGL A433 Professional Writing (3)
     - ENGL A445 Alaska Native Literatures (3)
   - Complete 3 credits upper division English or Creative Writing and Literary Arts elective: 3

   Rhetoric and Language Option (24-25 credits)
   - Complete 6 credits from nature of language:
     - LING A101 The Nature of Language 3
     - LING A201 Intermediate Grammar 3
   - Complete 6 credits from advanced composition:
     - ENGL A311 Advanced Composition (3)
     - ENGL A312 Advanced Technical Writing (3)
     - ENGL A313 Professional Writing (3)
     - ENGL A414 Research Writing (3)

3. A total of 120 credits is required for the degree, of which 42 credits must be upper division.

Minor, English
The Department of English offers a minor in English with an emphasis in literature, linguistics, or professional writing. A total of 18 credits is required for the minor.
Students majoring in another subject who wish to minor in English must complete the following requirements.

**LINGUISTICS EMPHASIS**

1. Complete these required courses (6 credits):
   - LING A101 The Nature of Language (3)
   - LING A201 Intermediate Grammar (3)

2. Complete 12 credits from the following:
   - ANTH A210 Introduction to Anthropological Linguistics (3)
   - ANTH A361 Language and Culture (3)
   - ENGL A450 Linguistics and Language Teaching (4)
   - ENGL A452 English Grammar and Language Teaching (4)
   - ENGL A475 Modern Grammar (4)
   - ENGL A476 History of English Language (3)
   - ENGL A487 Standard Written English (3)
   - ENGL A490 Selected Topics in English (3)*

*Counts for Linguistics Minor only when focus is on language.

**LITERATURE EMPHASIS**

- ENGL A201 Masterpieces of World Literature I (3)
- ENGL A202 Masterpieces of World Literature II (3)
- ENGL A351 Poetry (3)
- ENGL A424 Shakespeare (3)
- ENGL A435 History of Criticism (3)

Upper division elective approved by the English Department (3)

**PROFESSIONAL WRITING EMPHASIS**

One of the following:
- ENGL A212 Technical Writing (3)
- ENGL A213 Writing in the Social and Natural Sciences (3)
- ENGL A214 Persuasive Writing (3)

Two of the following:
- ENGL A311 Advanced Composition (3)
- ENGL A312 Advanced Technical Writing (3)
- ENGL A313 Professional Writing (3)

One of the following:
- ENGL A414 Research Writing (3)
- ENGL A495 Internship in Professional Writing (1-6)

And both of the following:
- ENGL A434 History of Rhetoric (3)
- Upper division elective approved by the English Department (3)

**MINOR WITH DISTINCTION, CREATIVE WRITING AND LITERARY ARTS**

Students majoring in another subject who wish to minor in Creative Writing and Literary Arts with Distinction will be required to produce a thesis project in consultation with their advisor, consisting of approximately 30 pages of fiction, creative nonfiction, drama, or poetry, prefaced by an analytical essay and followed by an annotated bibliography. For a CWLA Minor with Distinction, a student must maintain a GPA of 3.50 in the minor.

1. Complete 9 credits from the following list of undergraduate writing workshops and magazine production course offerings. Note that at least 6 credits must be upper division:
   - CWLA A259 Short Format Introduction to Creative Writing (1)
   - CWLA A260 Introduction to Creative Writing (3)
   - CWLA A261 Art/Literary Magazine Production (3)
   - CWLA A352 Undergraduate Writer’s Workshop: Poetry (3)
   - CWLA A362 Undergraduate Writer’s Workshop: Fiction (3)
   - CWLA A372 Undergraduate Writer’s Workshop: Nonfiction (3)

2. Complete 6 credits from the following:
   - CWLA A461 Writing and Gender (3)
   - CWLA A490 The Writer’s Craft (3)

3. Complete the following required project:
   - CWLA A499 Thesis (3)

4. A total of 18 credits is required for the minor.

**ENVIRONMENTAL STUDIES**

Beatrice McDonald Hall (BMH), Room 213 (907) 786-6049
www.uaa.alaska.edu/ges

Which is better: paper or plastic? How wet is a wetland? What are xenosterogens and polycyclic aromatic hydrocarbons, and why should we care? Is sustainable development possible? Is global warming real?

Addressing today’s environmental issues requires skills in the natural and social sciences, a coherent ethical stance informed by knowledge of history, other cultures, and the humanities, and the ability to think critically in an interdisciplinary way. UAA offers two ways for undergraduates to increase their environmental literacy. The
interdisciplinary minor in Environmental Studies allows students to organize a portion of their studies around the environment and begin to acquire problem-solving skills that combine sound science with an appreciation of economic, social, and ethical trade-offs. In addition, the introductory courses by themselves offer a broad-based introduction to the field and its many relationships to other disciplines.

MINOR, ENVIRONMENTAL STUDIES

Students majoring in another subject who wish to minor in Environmental Studies must complete the following requirements. At least 20 credits are required for the minor.

1. Complete the following required core courses (11 credits):
   - ENVI/ GEOG A211 Earth Systems: Science and Geography of the Natural Environment 3
   - ENVI/ GEOG A211L Earth Systems: Science and Geography of the Natural Environment Laboratory 1
   - ENVI A212 Living on Earth: People and the Environment 3
   - ENVI A470 Environmental Planning and Problem Solving 4

2. Complete three of the following courses, with at least one from each list (9 credits):
   **List A**
   - BIOL A271 Principles of Ecology (4)
   - BIOL A373 Conservation Biology (3)
   - BIOL A490* Selected Lecture Topics in Biology (3)
   - CHEM A450 Environmental Chemistry (3)
   - GEOG A211 Earth Systems: Science and Geography of the Natural Environment 3
   - GIS A268 Elements of Geographic Information Systems (GIS) (4)
   - GIS A370 GIS and Remote Sensing for Natural Resources (3)

   *To be taken under the topic title “Environmental and Ecological Applications of Geographic Information Systems (GIS).”*

   **List B**
   - ANTH A354 Culture and Ecology (3)
   - CEL A292 Introduction to Civic Engagement (3)
   - CEL A395 Civic Engagement Internship (3)
   - ENGL A478 Public Science Writing (3)
   - ECON A210 Environmental Economics and Policy (3)
   - ENVI/ PHIL A303 Environmental Ethics (3)
   - LSSS A311 People, Places, and Ecosystems (3)
   - SOC A404 Environmental Sociology

MINOR, GEOGRAPHY

Students majoring in another subject who wish to minor in Geography must complete the following requirements. At least 20 credits are required for the minor.

1. Complete the following required core courses: (11 Credits)
   - GEOG/ INTL A101 Local Places/Global Regions: An Introduction to Geography 3
   - ENVI/ GEOG A211 Earth Systems: Science and Geography of the Natural Environment 3
   - ENVI/ GEOG A211L Earth Systems: Science and Geography of the Natural Environment Lab 1
   - GIS A268 Elements of Geographic Information Systems (GIS) 4

2. Complete one of the following options: (9 Credits)
   - a) 9 credits of upper division GEOG
   - b) LSSS A311 and 6 credits of upper division GEOG

FACULTY

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GEOLOGICAL SCIENCES

ConocoPhillips Integrated Sciences Building (CPSB), Room 101, (907) 786-6840
www.uaa.alaska.edu/geology

Geology is the science that studies planet Earth. The geological sciences incorporate areas of study in:

1. Earth materials including mineralogy, petrology, sedimentology and stratigraphy, volcanology, ore deposits, and structure;
2. Geologic Earth history including historical geology and paleontology;
3. Earth surface processes including geomorphology, soils, paleoclimatology, glacial geology, and permafrost; and
4. Earth's environmental systems including hydrogeology, environmental geochemistry and geophysics. The curriculum is designed to provide students with a solid understanding of the geological sciences to prepare them for graduate studies, government and industry employment, and teaching. A Bachelor of Science degree in Geological Sciences is available for undergraduates.

The Geological Sciences faculty is highly motivated to transmit their knowledge and passion for the geological sciences and focus on combining classroom education with laboratory and field work. Students who enjoy working outdoors, have a strong scientific background, and are interested in earth processes will find the geological sciences a rewarding area of study.

The program in Geological Sciences requires completion of a basic science curriculum in chemical, physical, and mathematical sciences in addition to core and elective courses in geological sciences. The undergraduate degree in geology offers two tracks: general geology or environmental geology. The general geology track includes core geology courses with upper division course electives. The environmental geology track requires core geology courses plus upper division electives that focus on environmental topics including environmental geochemistry, hydrogeology, and soils. Students are strongly encouraged to consult with geologic sciences faculty to choose the direction of study suiting their goals.

The Bachelor of Science in Geological Sciences program requires a minimum of 120 credits for graduation. It can be completed in four years by students who have adequate high school preparation in the sciences and math. Consult the College of Arts and Sciences list of recommended preparatory courses in all disciplines.
PROGRAM OBJECTIVES AND EXPECTED OUTCOMES
The curriculum of the UAA Geological Sciences program is designed to produce graduates who:
1. Have a basic knowledge of the principles related to the geological sciences with either an emphasis in environmental geology or general geology;
2. Have an understanding of how to think scientifically and apply their knowledge to solve geologic problems;
3. Have sufficient competence to obtain employment as an entry level geologist or environmental geologist, and be able to progress professionally within the discipline and are prepared for advanced study;
4. Have a fundamental understanding of Alaskan geology and environmental problems in Alaska;
5. Are able to communicate their ideas; and
6. Are prepared for and understand the need for continued professional development throughout their careers.

In keeping with the objectives, it is expected that graduates of the UAA Geological Sciences program will have:
1. An ability to apply their knowledge of general geology and/or environmental geology;
2. An ability to accept challenges and think through problems until they are solved;
3. An ability to design and conduct projects that include field work, laboratory analyses and interpretation in their area of emphasis;
4. Experience in field geology in Alaska;
5. An ability to communicate effectively; and
6. A recognition of the need for, and ability to pursue life-long learning.

HONORS IN GEOLOGICAL SCIENCES
The Department of Geological Sciences offers recognition to students who demonstrate exceptional promise in the science by awarding them with the Departmental Honors in Geological Sciences. To graduate with departmental honors, the student must be a declared Geological Sciences major and meet the following requirements:
1. Satisfy all requirements for a BS degree in Geological Sciences.
3. Complete 6 credits of GEOL A499 Senior Thesis or 3 credits of GEOL A498 Directed Research and 3 credits of GEOL A499 Senior Thesis in Geological Sciences with a B or better.
4. Students intending to graduate with departmental honors must notify the Departmental Honors Committee, in writing, on or before the date they file their Application for Graduation with the Office of the Registrar.

BACHELOR OF SCIENCE, GEOLOGICAL SCIENCES
ADMISSION REQUIREMENTS
Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

ACADEMIC PROGRESS
In order to graduate with a BS in Geological Sciences, all courses covered under Major Requirements for a BS in Geological Sciences must be completed with a grade of C or better. Students who audit a course in Geological Sciences or who are unable to earn a grade of C or better in the course may repeat the course. All prerequisites for Geological Sciences courses must be completed with a grade of C or better.

Please consult the undergraduate academic advisor in the Department of Geological Sciences to obtain a student handbook for the Geological Sciences major.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees located at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section of this catalog.

D. MAJOR REQUIREMENTS
1. Some major requirements may also be used to satisfy the College of Arts and Sciences BS requirements.
2. Complete these required support courses (23-24 credits): 3
   - CHEM A105/L General Chemistry I 4
   - CHEM A106/L General Chemistry II 4
   - PHYS A123/L Basic Physics I 4
   - PHYS A124/L Basic Physics II 4
   - MATH A200 Calculus I 4
   - STAT A253 Applied Statistics for the Sciences (4) 3-4
   or
   - STAT A307 Probability (3)
   Note: Math A201 Calculus II is highly recommended for students majoring in Geological Sciences.
3. Complete Geological Sciences core curriculum courses (40 credits):
   A. Complete the following required courses 34
      - GEOL A111 Physical Geology 4
      - GEOL A221 Historical Geology 4
      - GEOL A231 Mineralogy 4
      - GEOL A322 Igneous and Metamorphic Petrology 4
      - GEOL A335 Structural Geology 4
      - GEOL A330 Geomorphology 4
      - GEOL A360 Geochemistry 3
      - GEOL A410 Research Techniques in Geology 3
      - GEOL A452 Sedimentology and Stratigraphy 4
   B. Complete a minimum of 6 credits of the following required field courses 6
      - GEOL A480 Geologic Field Methods* (3)
      - GEOL A481 Alaska Field Investigations (3)
      - GEOL A481 Geology Field Camp* (3-6)
      *GEOL A480 and GEOL A481 are offered through UAA. Geology Field Camps are offered through other accredited academic institutions and must be approved by the Department of Geological Sciences. Credits must be transferable to UAA from the academic institution that is offering the course and must be completed with at least a minimum grade of 2.00.
4. Students must select one of the following tracks in the Geological Sciences. Students may complete both tracks, but may not use the same courses to fulfill the requirements in each track.
   A. General Geological Sciences Track (13-14 credits)
      Complete 13-14 credits of the following: 13-14 credit
      - GEOL A320 Volcanology (3)
      - GEOL A325 Geology of Ore Deposits (3)
      - GEOL A340 Hydrogeology (3)
      - GEOL A380 Anchorage Field Studies (3)
      - GEOL A381 Kenai Peninsula Field Studies (3)
      - GEOL A382 Geologic Field Studies (3)
      - GEOL A421 Invertebrate Paleontology (4)
      - GEOL A454 Glacial and Quaternary Geology (3)
      - GEOL A455 Permafrost (3)
      - GEOL A456 Geochronology (3)
      - GEOL A457 Soil Genesis and Classification (4)
GEOL A460 Environmental Geochemistry (3)
GEOL A475 Environmental Geophysics (3)
GEOL A480** Geologic Field Methods (3)
GEOL A481** Alaska Geologic Field Investigations (3)
GEOL A482 Geologic Field Investigations (3)
GEOL A490 Advanced Topics in Geology (1-4)
GEOL A492 Geology Seminar (1)
GEOL A495 Geology Internship (1-3)
GEOL A498 Student Research (1-6)
GEOL A499 Senior Thesis (3)

**GEOL A480 and GEOL A481 may be applied toward recommended electives if they are not being applied to satisfy the core curriculum credits.

B. Environmental Geological Sciences Track (13-14 credits)

1a. Complete the following 3 required credits:
   - GEOL A340 Hydrogeology 3
2a. Complete at least 4 elective credits from the following:
   - GEOL A454 Glacial and Quaternary Geology (3)
   - GEOL A455 Permafrost (3)
   - GEOL A457 Soil Genesis and Classification (4)
   - GEOL A460 Environmental Geochemistry (3)
   - GEOL A475 Environmental Geophysics (3)
   - GEOL A495 Geology Internship (1-3)

HISTORY

Administration/Humanities Building (ADM), Room 147, (907) 786-1539
www.uaa.alaska.edu/history

History as a subject in its broadest sense is all that human beings have thought and done. Knowledge of history is the principal means by which humans discover and preserve their collective identity, for through such knowledge, we gain a clear view of our limitations, and a glimpse of our potential.

History as an intellectual discipline examines and interprets the documentary records of human activity, records that are often fragmentary and incomplete. As a discipline, history is both a science and an art; it requires an intricate balance of scientific technique and creative imagination to weave fragments of evidence into an intelligent account of human experience.

HONORS IN HISTORY

The award of honors in History recognizes distinguished achievement by undergraduate majors in the study and writing of history.

To be eligible for departmental honors a student must satisfy the following requirements:

1. Be a declared History major.
2. Satisfy all the requirements for a BA degree in History.
3. Meet the requirements for Graduation with Honors as listed in Chapter 7 of the UAA Catalog.
4. Maintain a grade point average of 3.50 or above in courses specific to the History major.
5. Complete HIST A377 Historiography with a grade of A.
6. Complete the senior seminar paper HIST A477 with a grade of A.

Honors designees in History must submit a typographically correct, formal copy of their senior paper to the department for deposit in the departmental archives. This must be done before graduation day of the year in which the paper is completed.
A. **GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.

B. **GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

*The department recommends that its majors complete GEOG A101 to satisfy part of the CAS social science requirement and GEOG A211/L to satisfy part of the GER natural science requirement.

C. **COLLEGE OF ARTS AND SCIENCES REQUIREMENTS**

Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.

D. **MAJOR REQUIREMENTS**

1. Complete the following survey courses:
   - HIST A101 Western Civilization I (3)
   - HIST A102 Western Civilization II (3)
   - HIST A131 History of United States I (3)
   - HIST A132 History of United States II (3)
   2. Complete 6 credits of non-Western History courses:
      - HIST A121 East Asian Civilization I (3)
      - HIST A122 East Asian Civilization II (3)
      - HIST A390A Themes in World History* (3)
      - HIST A320 The Rise, Fall, and Reinvention of the Samurai (3)
      - HIST A321 Modern China (3)
      - HIST A322 Modern Japan (3)
      - HIST A323 Communist China (3)
   3. Complete 15 credits of upper division electives. **15**
      - Note: Only 3 credits of HIST A444 may be applied to a major in History.
      - Note: GEOG A345 Across This Land and GEOG A415 Anglo-Saxons and Vikings are cross-listed with History and may be counted toward the upper division electives requirement for majors.
   4. Complete HIST A377 Historiography. **3**
   5. Complete HIST A477 Senior Seminar. **3**
   6. A total of 120 credits is required for the degree, of which 42 credits must be upper division.

**MINOR, HISTORY**

A total of 18 credits is required for the minor, 9 of which must be upper division.

- HIST A101 Western Civilization I (3)
- HIST A102 Western Civilization II (3)
- HIST A131 History of United States I (3)
- HIST A132 History of United States II (3)
- HIST A390A Themes in World History* (3)

**FACULTY**

Caedmon Liburd, Associate Professor (retired), AFCAL@uaa.alaska.edu
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Steve Haycox, Professor, AFSW@uaa.alaska.edu
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Elizabeth James, Assistant Professor, AFEJ@uaa.alaska.edu

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**INTERNATIONAL STUDIES**

Administration/ Humanities Building (ADM), Room 262, 786-1509
www.uaa.alaska.edu/intl

The International Studies program at UAA prepares students to be global citizens in an increasingly interdependent world. International and intercultural understanding and competency are essential in all aspects of life and work, and this program seeks to prepare students to be contributing members of the international community.

The interdisciplinary Bachelor of Arts in International Studies provides students with the analytical skills and cross-cultural sensitivities required of informed, global citizens. Core courses introduce students to different modes of enquiry and understanding and provide the foundation for a comparative approach to issues across regions, societies, and cultures. Coursework in a specific track focuses the student on a particular language and region. The program capstone requires students to apply acquired analytical skills and modes of enquiry across regions, societies, and cultures in a comparative examination of various topics.

To further develop their global competence, students majoring in International Studies will have the option to participate in study abroad or an approved internship. Students must petition to fulfill major requirements with study abroad or internship credits.

Students who complete a bachelor’s of International Studies will gain an understanding of the challenges and complexities of cross-cultural interactions in an increasingly interconnected world. Students will experience different ways of viewing and questioning the world as expressed in primary sources, as well as the complexities of a specific area (Russian, Northeast Asia, Europe, Canada) informed by multiple perspectives.

**HONORS IN INTERNATIONAL STUDIES**

Students majoring in International Studies are eligible to graduate with honors if they satisfy the following requirements:

A. Meet the requirements for Graduation with Honors as listed in Chapter 7 of the UAA catalog.
B. Meet the requirements for a Bachelor of Arts in International Studies.
C. Maintain a grade point average of 3.50 or above in courses applicable to the degree requirements.
D. Complete the program capstone course (HIST A390A) with an honor grade (A).

**BACHELOR OF ARTS, INTERNATIONAL STUDIES**

**ADMISSION REQUIREMENTS**

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

A. **GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.

B. **GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements for Baccalaureate Degrees located at the beginning of this chapter.
C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences Bachelor of Arts Requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS

Note: Courses which may be used to meet GER and/or CAS BA requirements are designated by an asterisk (*) after their numbers. Courses in the GER lists for Tier 2 social sciences and humanities requirements may be used to fulfill both International Studies requirements and GER Tier 2 requirements in social sciences and humanities.

1. Complete 18 credits of required core courses

   **Introductory Survey**
   (May be used to fulfill both an International Studies degree requirement and the Tier 2 GER social sciences requirement.)
   GEOG/INTL A101* Local Places/Global Regions: An Introduction to Geography (3)

   **Social Sciences Selection**
   (Courses below that are also listed in the list for Tier 2 GER social sciences may be used to fulfill both an International Studies degree requirement and the Tier 2 GER social sciences requirement.)
   ANTH A250* Rise of Civilization (3)
   GEOG/PS A327 Political Geography (3)
   GEOG A323 Economic Geography and the Global Economy (3)
   INTL A315* Canada: Nation and Identity (3)
   JUST A365 Comparative Justice System (3)
   PS A102* Introduction to Political Science (3)
   PS A321 International Relations (3)

2. Complete four semesters of college-level language appropriate to track (101-102, 201-202, or higher) 16

3. Complete 12 credits as specified in one of the tracks below

   **Russia Track (Language: Russian)**
   HIST A330 Russia in East Asia (3)
   or
   INTL A355 Russian Far East (3)

   **Europe Track (Language: French, German, Spanish)**
   HIST A316 Twentieth Century Europe (3)

   **Capstone Course Selection**
   HIST A390A Themes in World History (3)
   or
   PHIL A400 Ethics, Community, and Society (3)

   **Humanities and Fine Arts Selection**
   ART A262* History of World Art II (3)
   ENGL A202* Masterpieces of World Literature II (3)
   ENGL A343 Modern and Contemporary Literature (3)
   PHIL A212 History of Philosophy II (3)
   THR A312* Representative Plays II (3)

   **Russia Elective Course Selection**
   Either course above (over and above the 3 credits required) (3)
   ANTH A434 Peoples and Cultures of Northeast Asia (3)
   ART A492 Art History Seminar (with topic 20th Century Russian Art: Symbolist Developments Perestroika and Beyond) (3)
   ECON/PS A418 Politics and Economics of the RFE (3)
   GEOG A344 The Slavic World (3)
   GEOG A447 The Silk Road (3)
   HIST/RUSS A384 Russian Women (3)
   HIST A423 Medieval Russian History (3)
   HIST A424 Imperial Russian History (3)
   HIST A425 History of the Soviet Union (3)
   HIST/RUSS A427* Post-Soviet Culture and Society (3)
   HIST A477 Senior Seminar in History (3) (with appropriate content)
   HIST A486 Studies in Modern Europe (with appropriate content) (3)
   PS A312 Comparative Politics: Case Studies (with Russia case) (3)
   PS A490 Studies in Politics (with appropriate content) (3)
   PS A492 Senior Seminar in Politics (with appropriate content) (3)
   RUSS A390 Selected Topics in Advanced Russian (3)
   RUSS A490A Selected Topics in Russian Culture (3)
   RUSS A490B Selected Topics in Russian Culture in Translation (3)
   THR A490 Selected Topics in Performance: Modern Russian Drama: Gogol to the Present (3)

Any course with the appropriate focus and approved for the category. For example, a topics course that focuses on Russia. (3)

**Northeast Asia Track (Language: Chinese or Japanese)**
INTL/HIST/PS A325 Northeast Asia in the 21st Century (3)

**Northeast Asia Elective Course Selection**
ANTH A434 Peoples and Cultures of Northeast Asia (3)
ART A366 Asian Art (3)
HIST A320 Rise, Fall, and Reinvvention of the Samurai (3)
HIST A321 Modern China (3)
HIST A322 Modern Japan (3)
HIST A323 Communist China (3)
HIST A330 Russia in East Asia (3)
HIST A477 Senior Seminar (with appropriate content) (3)
JPN A310 Selected Topics in Advanced Japanese (3)
PHIL A313 Eastern Philosophy and Religion (3)
PS A312 Comparative Politics: Case Studies (with China, Japan cases) (3)
PS A490 Studies in Politics (with appropriate content) (3)
PS A492 Senior Seminar in Politics (with appropriate content) (3)

Any course with the appropriate focus and approved for the category. For example, a topics course that focuses on China or Japan. (3)

**Europe Track (Language: French, German, Spanish)**
HIST A316 Twentieth Century Europe (3)

**European Elective Course Selection**
ART A362 History of Modern Art (3)
ART A363 History of Contemporary Art (3)
ECON A360/HIST A360 Modern Economic History (3)
ENGL A342 The Modernist Period (3)
ENGL A343 Modern and Contemporary Literature (3) (if not taken as a core course)
ENGL A440 Topics in Comparative Literature (with approved topic) (3)
MINOR, INTERNATIONAL NORTH PACIFIC STUDIES

Students majoring in another subject and wishing to minor in International North Pacific Studies must complete the following requirements:

1. Complete the following courses:
   - INTL A315* Canada: Nation and Identity (3)
   - HIST A330 Russia in East Asia (3)
   - PS A325 Northeast Asia in the 21st Century (3)
   - GER A490 Selected Topics in German Literature (with approved topic) (3)
   - ANTH A435 Northwest Coast Cultures (3)
   - GEOG A344 The Slavic World (3)
   - ENGL A305* National Literatures in English (3)
   - ENGL A371 Prose Nonfiction (with appropriate content) (3)
   - FREN A432 Studies in Literature and Culture (with approved topic) (3)
   - HIST A341 Nineteenth Century Europe (3)
   - HIST A411 History of Modern Germany (3)
   - HIST A477 Senior Seminar (with approved topic) (3)
   - PS A333 History of Political Philosophy II: Modern (3)

2. Complete 8 credits of a language appropriate to the Canada, Northeast Asia, or Russia track of the Bachelor of Arts in International Studies.

3. Complete one elective course from either the Canada, Northeast Asia, or Russia tracks of the Bachelor of Arts in International Studies.

4. A total of 20 credits is required for the minor.

JOURNALISM AND PUBLIC COMMUNICATIONS

The Department of Journalism and Public Communications (IPC) offers an undergraduate program leading to the Bachelor of Arts with concentrations in Journalism, Strategic Communications, Telecommunications and Film, Digital Graphics and Design, and Integrated Media.

The Department of Journalism and Public Communications is nationally accredited by the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC). The department places great emphasis on preparing graduates for careers in professional communications and media industries.

The department’s academic programs are designed to prepare graduates to understand principles and practices of contemporary journalism and public communications.
The program prepares students to develop skills for gathering and presenting information through various media. Computers are used throughout the program and students are required to produce media against deadlines. Students also are required to develop a portfolio of their media work for faculty review in their final year.

Department courses examine the role of the media in society and explore contemporary social, ethical, and legal issues related to journalism, professional communications, and media industries. The program emphasizes broad scholarship in the liberal arts. This type of scholarship is essential for preparation in professional communications and media industries, which require journalists and communications practitioners to possess a wide range of knowledge.

Students graduating from this program will have developed and demonstrated:

- Expressive characteristics enabling them to visually realize their ideas and to create a body of work illustrating their creative analogical abilities.
- Conceptual characteristics enabling them to develop qualitative work that is consistent with their ideas, exhibits, original concepts, illustrates growth, and articulates concepts in creative ways.
- Formal characteristics enabling them to illustrate a technical mastery of the use of materials, a grasp of composition and formal elements and an appreciation for risk-taking in the context of formal considerations.
- Abilities to articulate ideas in relationship to orally based critical discourse in the classroom.

Honors in Journalism and Public Communications

Students majoring in Journalism and Public Communications are eligible to graduate with department honors if they satisfy all of the following requirements:

- A. Meet the requirements for a BA degree in Journalism and Public Communications:
- B. Maintain a grade point average of 3.50 in JPC courses; and
- C. Complete JPC A492, JPC Senior Seminar, in the final spring term of study with an honor grade (A or B).

Note: Department honors are awarded by the faculty in Journalism and Public Communications.

Bachelor of Arts, Journalism and Public Communications

Admission Requirements

Submit a Declared Major form for department approval. Students are accepted into JPC for a BA in Journalism; Strategic Communications; Telecommunications and Film; or Integrated Media, or into the BFA in Digital Graphics and Design in conjunction with the Department of Art.

Graduation Requirements

A. General University Requirements

Complete the General University Requirements for Baccalaureate degrees found in the beginning of this chapter.

B. General Education Requirements

Complete General Education Requirements for Baccalaureate degrees found at the beginning of this chapter.

C. College of Arts and Sciences Requirements

Complete the College of Arts and Sciences Requirements for Bachelor of Arts degrees found at the beginning of this chapter. Note that 81 credits must be outside the major; 66 of those credits must be in the liberal arts as approved by JPC faculty (liberal arts courses are normally found in the College of Arts and Sciences); and 42 credits must be 300- and 400-level courses.

D. Major Requirements

Complete 126 credits for the degree: 45 credits must be JPC credits.

Matriculation in Department of Journalism and Public Communications

1. Complete four Journalism and Public Communications core courses with a C or better
   - JPC A201 Reporting and Writing News (3)
   - JPC A202 First Amendment and Media Ethics (3)
   - JPC A203 Writing and Producing for Electronic Media (3)
   - JPC A204 Information Gathering (3)
   
   Note: JPC A201 is required for Journalism and Strategic Communications majors. All majors must complete JPC A202 before taking JPC A203 and JPC A204, which may be taken simultaneously.

2. Complete one of the following JPC 200-level elective courses:
   - JPC A211 Visual Literacy (3)
   - JPC A212 Copy Editing (3)
   - JPC A213 Digital Imaging (3)

3. Complete one of the following JPC 300-level elective courses:
   - JPC A312 History of Alaska Media (3)
   - JPC A313 Movies and The First Amendment (3)
   - JPC A314 Documentary Filmmakers and Filmmaking (3)

4. Complete one of JPC 400-level elective courses:
   - JPC A404 Global Media and International Communications Systems (3)
   - JPC A405 Communications and Media Theories (3)
   - JPC A413 Communications Law (3)
   - JPC A454 Media Project Management (3)

5. Complete JPC research course:
   - JPC A403 Communications and Media Research (3)

6. Complete 21 JPC elective credits to fulfill one of the following JPC concentration areas; one course (3 credits) may be taken in any JPC concentration area.

Journalism Concentration

- JPC A342 Photojournalism (3)
- JPC A343 Radio News Reporting (3)
- JPC A344 Television News Reporting (3)
- JPC A345 Web Design (3)
- JPC A346 Magazine Writing (3)
- JPC A442 Web Journalism (3)
- JPC A443 Advanced Reporting (3)
- JPC A444 Specialty Reporting (3)
- JPC A445 Design for Print I (3)
- JPC A446 Design for Print II (3)
- JPC A492 JPC Senior Seminar (3)
- JPC A495 JPC Practica and Internship (1-6)
- JPC A497 Independent Study (3)

Strategic Communications Concentration

- JPC A362 Principles of Strategic Communications (3)
- JPC A363 Research Methods for Strategic Communications (3)
- JPC A366 Planning and Writing for Strategic Communications (3)
- JPC A368 Commercial Photography (3)
- JPC A369 Design for Publications (3)
- JPC A462 Corporate Communications (3)
- JPC A463 Crisis Communications (3)
- JPC A464 Development Communications (3)
MINOR, JOURNALISM AND PUBLIC COMMUNICATIONS

For a JPC minor, students need six courses of which JPC A201 and JPC A204 are required. The remaining 12 credits may be taken from any JPC courses. Eighteen credits are required for the minor.

- JPC A201 Reporting and Writing News (3)
- JPC A203 Writing and Producing for Electronic Media (3)
- JPC 300- and 400-level electives (12)

FACULTY

Frederick W. Pearce, Ph.D., Professor/Chair, fpearce@jpc.alaska.edu
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Red Bradley, M.F.A., Term Professor, rbradley@jpc.alaska.edu
Joy C. Mapaye, M.A., Assistant Professor, jmapaye@jpc.alaska.edu
Ron McGee, M.A., Assistant Professor, rmcgee@jpc.alaska.edu

LANGUAGES

Administration/Humanities Building (ADM), Room 287, (907) 786-4037
www.uaa.alaska.edu/languages/

Studying languages prepares a student to live and work in an increasingly interdependent world in which contact with other cultures is becoming more frequent and the appreciation and respect for linguistic and cultural diversity is becoming more important. The Department of Languages offers a Bachelor of Arts degree, a Minor in a single language, and courses that fulfill CAS and GER requirements.

The Bachelor of Arts in Languages affords students the option of concentrating on one emphasis language (Option I), or of studying an emphasis language in combination with a second language (Option II). These options, and the degree's use of courses from outside the department to fulfill major requirements, reflect the diverse context in which students live and work, and recognize the inherent multidisciplinary nature of language study. This flexibility also allows students to select a program most suited to their educational and career goals.

The Department of Languages offers French, German, Japanese, Russian, and Spanish as emphasis languages, with additional lower division courses in American Sign Language (ASL). First-year courses begin building the foundations of language learning: listening, speaking, reading, and writing. Since language can only be understood within a cultural context, studying culture is included from the first semester. In courses beyond the first year, students expand and refine their language skills and further develop their cultural knowledge.

As an integral part of their education, the department recommends that all students majoring in Languages study abroad in a country of their target language(s). UAA offers a variety of opportunities for study abroad. For a full description of study abroad opportunities through UAA, students should refer to International Student Services in the Office of Admissions. Students wishing to apply study abroad credit toward a Languages degree must petition to satisfy major and/or minor requirements with study abroad experience. The Department may require post-program examinations. The department highly recommends that students discuss their study abroad plans with their academic advisor prior to participation.

HONORS IN LANGUAGES

The Department of Languages recognizes exceptional undergraduate students by awarding them Departmental Honors in Languages. To graduate with departmental honors, students must be declared Languages majors and meet the following requirements:

1. Meet the requirements for Graduation with Honors as listed in Chapter 7 of the UAA catalog;
2. Satisfy all requirements for a BA degree in Languages;
3. Maintain an overall UAA GPA of 3.50 with a 3.85 in the major;
4. Notify their departmental advisor in writing at least two semesters prior to graduation of intent to graduate with departmental honors;
5. Receive an honors score (90 percent) (based upon criteria established by the department) on a comprehensive examination in the language(s) of focus; the comprehensive examination must be completed at least one semester prior to graduation.

BACHELOR OF ARTS, LANGUAGES

ADMISSION REQUIREMENTS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

ACADEMIC PROGRESS

No course in which a grade below C has been received will count towards the major.
Graduation Requirements
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS
1. Students working toward a degree in Languages may choose from two options:
   
   **Option I: Single Language**
   a. Choose an emphasis language from French, German, Japanese, Russian, or Spanish.
   b. Complete one of the following two courses: 3
      - LING A101 The Nature of Language (3)
      - or
      - LSSS A111 Cultural Foundations of Human Behavior (3)
   
   c. Complete required courses in the emphasis language:
      - A201-A202 Intermediate I and II (8)
      - A301-A302 Advanced I and II (8)
   d. Complete 12 credits of approved upper division electives in or related to the emphasis language or culture, at least 9 of which must be taught in the emphasis language (see department for list of approved courses taught in English).
   e. Complete an additional 6 credits of emphasis language approved electives in or related to the emphasis language or culture, but which must be upper division if taught in the emphasis language (contact department for list of approved courses taught in English).

   **Option II: Dual Languages**
   a. Choose an emphasis language from French, German, Japanese, Russian, or Spanish; and a second language from among those or ASL.
   b. Complete one of the following two courses: 3
      - LING A101 The Nature of Language (3)
      - or
      - LSSS A111 Cultural Foundations of Human Behavior (3)
   
   c. Complete required courses in the emphasis language:
      - A201-A202 Intermediate I and II (8)
      - A301-A302 Advanced I and II (8)
   d. Complete 9 credits of approved upper division electives in or related to the emphasis language or culture, at least 6 of which must be taught in the emphasis language (see department for list of approved courses taught in English).
   e. Complete 8 credits (6 credits for ASL) beyond A102 in the second language.

2. Students must petition to substitute study abroad language courses for certain major requirements.
3. Students may not earn a major and a minor in the same language.
4. The degree program must be approved and signed by the chair of the Department of Languages.
5. Students must take at least 6 upper division credits, in the respective emphasis language, in courses numbered higher than 302 in residence at UAA.

6. A total of 120 credits is required for the degree, of which 42 credits must be upper division.

Language Credit by Placement
An accepted, degree-seeking UAA student who has completed in residence one of the Department of Languages UAA catalog courses (A102-A301) with a grade of B or better is eligible to receive credit for the two immediately preceding courses, if any, up to a total of 8 credits. This policy does not apply to credit earned through Credit by Examination, the College Board Advanced Placement Examination Program, nor to special topics (-93), independent study (-97), the course A302, or Department of Languages literature or culture courses. In order to receive credit the student must complete the appropriate form in the Office of the Registrar and pay an administrative fee.

Minor, Languages
Students who wish to minor in languages must complete the following requirements: a total of 19 credits taught in the target language at or above the 200 level with at least 11 credits being upper division. Credits must be in one discipline chosen from the following languages:

- French
- German
- Japanese
- Russian
- Spanish

FACULTY
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Susan Kalina, Professor, Russian, AFSMK@uaa.alaska.edu
Theodore Kassier, Professor, Spanish, AFTLK@uaa.alaska.edu
Natasa Masanovic, Associate Professor, German, AFNM@uaa.alaska.edu
Francisco Miranda, Associate Professor, Spanish, AFIHM@uaa.alaska.edu
Sudarsan Rangarajan, Associate Professor, French, sundarsan@uaa.alaska.edu
Dave Robertson, Coordinator, American Sign Languages, ASL@uaa.alaska.edu

Liberal Studies
Social Sciences Building (SSB), Room 343, (907) 786-1707
http:// liberalstudies. uaa.g alaska.edu

The Bachelor of Liberal Studies (BLS) degree is an interdisciplinary program that provides both significant breadth across a variety of fields, meaningful depth in a single field, and the interconnections and integration among fields that allow a fuller comprehension of the modern world. It is intended for those students who prefer a broad liberal arts and sciences degree, rather than a Bachelor of Arts or Bachelor of Science degree in a single discipline. This may include students with particularly wide or still uncertain personal or career interests, or those who intend to become elementary education teachers, for whom the program has been designed specifically to incorporate the relevant State of Alaska standards and those of the National Council for Accreditation of Teacher Education (NCATE). Students wishing a career as elementary teachers should plan on pursuing the post-baccalaureate program in elementary teacher preparation following graduation with a BLS.

Other students selecting the BLS may, with proper advising, wish to pursue professional graduate education in law or other fields. While with the proper discipline area concentration a BLS graduate may pursue graduate study in a particular discipline area, students who plan to attend graduate school in a specific area are generally advised to take a disciplinary major. Many of the courses comprising the BLS are also included as the arts and sciences content component of the Bachelor of Arts in Elementary Education, offered by the College of Education for those students desiring an undergraduate route to certification as an elementary teacher.
BACHELOR OF LIBERAL STUDIES

ADMISSION REQUIREMENTS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. MAJOR REQUIREMENTS

Courses marked with an asterisk (*) fulfill UAA General Education Requirements. Courses in bold face are also included in the Bachelor of Arts in Elementary Education, offered by the College of Education. Students must complete the following requirements and meet with a BLS or CAS advisor prior to entering their junior year and file an approved program of study form with the department. Forms and approved disciplinary areas can be found at http://liberalstudies.uaa.alaska.edu, or by contacting the department at (907) 786-1707.

1. Communications and Writing Skills

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>COMM A111* Fundamentals of Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENGL A111* Methods of Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENGL A214* Persuasive Writing</td>
<td>3</td>
</tr>
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2. Liberal Studies Integrated Sciences (LSIS) Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LSIS A101* Discoveries in Science</td>
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</tr>
<tr>
<td>LSIS A201* Life on Earth</td>
<td>5</td>
</tr>
<tr>
<td>LSIS A202* Concepts and Processes: Natural Sciences</td>
<td>5</td>
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</table>

3. Mathematical Skills

<table>
<thead>
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<th>Credits</th>
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<tbody>
<tr>
<td>MATH A107 or MATH A108 or MATH A109 or MATH A172 or MATH A200 or MATH A201 or MATH A272*</td>
<td>3-6</td>
</tr>
<tr>
<td>STAT A252 or STAT A253*</td>
<td>3-4</td>
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4. Liberal Studies Social Sciences (LSSS) Core

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>AKNS/PS A411 Tribes, Nations and Peoples</td>
<td>3</td>
</tr>
<tr>
<td>LSSS A111 Cultural Foundations of Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSY Complete one course in psychology (recommend PSY A111* General Psychology Or PSY A150* Lifespan Development)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH A250* The Rise of Civilization</td>
<td>3</td>
</tr>
<tr>
<td>LSSS A311 People, Places, and Ecosystems</td>
<td>3</td>
</tr>
<tr>
<td>LSSS A312 Individuals, Groups, and Institutions</td>
<td>3</td>
</tr>
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5. Liberal Studies Humanities Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete one course from GER fine arts list*</td>
<td>3</td>
</tr>
<tr>
<td>Complete an approved Elective in studio art, performing art or creative writing (Must be different from course used for the fine arts General Education Requirement)</td>
<td>3</td>
</tr>
<tr>
<td>HIST A335 Major Themes in US History</td>
<td>3</td>
</tr>
<tr>
<td>HUM A211* Introduction to Humanities I</td>
<td>3</td>
</tr>
<tr>
<td>HUM A212* Introduction to Humanities II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL A202* Masterpieces of World Literature II</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete a two semester sequence of a language, American Sign Language, or Alaska Native Studies Language course (same language both semesters)*. 6-8

Literature Elective 3

Complete an approved upper division literature elective. (Must be different from courses used for the humanities/ fine arts General Education Requirements).

6. Liberal Studies Integrative Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSIC/PHIL A231 Truth, Beauty, and Goodness</td>
<td>3</td>
</tr>
<tr>
<td>LSIC A311 Power, Authority, and Governance</td>
<td>3</td>
</tr>
<tr>
<td>LSIC A332 Science, Technology, and Culture</td>
<td>3</td>
</tr>
<tr>
<td>LSIC A488A Capstone Project I: Design and Research</td>
<td>3</td>
</tr>
<tr>
<td>LSIC A488B Capstone Project II: Analysis and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>LSIC A392 Seminar in Liberal Studies</td>
<td>1</td>
</tr>
</tbody>
</table>

7. Two Discipline Area Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 credits in one discipline, of which 9 credits must be at the upper division level (See approved list of disciplines at <a href="http://liberalstudies.uaa.alaska.edu">http://liberalstudies.uaa.alaska.edu</a>)</td>
<td>18</td>
</tr>
<tr>
<td>Nine additional credits in a second discipline of which 3 credits must be at the upper division level (See approved list of disciplines at <a href="http://liberalstudies.uaa.alaska.edu">http://liberalstudies.uaa.alaska.edu</a>)</td>
<td>18</td>
</tr>
</tbody>
</table>

For example, 12 credits in Political Science and 9 credits in English.

8. Electives 7

9. A total of 120-124 credits is required for the degree, of which 42 credits must be upper division.

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MATHEMATICS

Social Sciences Building (SSB), Room 154, (907) 786-1744/786-4824 www.math.uaa.alaska.edu

The Department of Mathematical Sciences offers a Bachelor of Science degree and a Bachelor of Arts degree in Mathematics. Each degree has two options - the Traditional Option and the Secondary Teaching Preparation Option.

The Traditional Option in the baccalaureate degree programs in mathematics offer an excellent foundation for any career involving theoretical or applied mathematics. Well-trained mathematicians are in demand in many sectors of society including business, finance, education, computing, and government. The Traditional Option also prepares a student for graduate study in the mathematical sciences. Both the Traditional Option (with appropriately chosen electives) and the Secondary Teaching Preparation Option satisfies NCATE standards, and prepares a student to teach mathematics at the high school level.

In addition, the Department of Mathematical Sciences offers courses and programs for those students who wish to:

a. Obtain an Associate of Applied Science degree
b. Obtain an Associate of Arts degree
c. Obtain a variety of certificates  
d. Study mathematics for use in another discipline  
e. Improve job-related mathematics skills  
f. Study mathematics for self-interest

HONORS IN MATHEMATICS
Students majoring in Mathematics are eligible to graduate with departmental honors if they satisfy the following requirements:

1. Meet the requirements for Graduation with Honors as listed in Chapter 7 of this UAA catalog.
2. Meet the requirements for a BA/BS degree in Mathematics.
3. Earn grade point average of 3.50 or above in the major requirements.
4. Complete a minimum of 12 upper division credits required for the major in residence.

BACHELOR OF ARTS, MATHEMATICS

ADMISSION REQUIREMENTS
Complete the Baccalaureate Degree Programs Admission Requirements listed at the beginning of this chapter.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements.

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS
Students pursuing a Bachelor of Arts degree in Mathematics may choose from two options:

1. Complete the following core courses (27 Credits)
   STAT A307 Probability 3
   CS A109 Computer Programming 3
   or
   CS A110 Java Programming 3
   or
   CS A111 Visual Basic.Net Programming 3
   or
   CS A201 Programming Concepts I (3)
   MATH A200 Calculus I 4
   MATH A201 Calculus II 4
   MATH A202 Calculus III 4
   MATH A215 Introduction to Mathematical Proofs 2
   MATH A303 Introduction to Modern Algebra 3
   MATH A314 Linear Algebra 3

2. Complete one of the following options:
   Traditional Option (21 Credits)
   MATH A302 Ordinary Differential Equations 3
   MATH A321 Analysis of Several Variables 3  
   MATH A324 Advanced Calculus 3
   MATH A410 Introduction to Complex Analysis 3
   MATH A422 Partial Differential Equations 3
   a. Complete three additional courses from the following list: MATH A305, MATH A406, MATH A371, MATH A407, MATH A408, MATH A410, MATH A420, MATH A422, MATH A426, STAT A308, STAT A402, STAT A403, STAT A404, STAT A405, STAT A407, STAT A408.

b. All Mathematics majors must take a standardized test of knowledge of mathematics approved by the Mathematics faculty for the purpose of evaluating program effectiveness. There is no minimum score required for graduation. This test will normally be taken during the senior year.

c. A total of 120 credits is required for the degree, of which 42 credits must be upper division.

SECONDARY TEACHING PREPARATION OPTION (15 Credits)
The Secondary Teaching Preparation Option is intended for students interested in pursuing Secondary Teacher Certification to teach mathematics at the Middle School and High School level. To obtain Secondary Teacher Certification, an approved Teacher Preparation Program must be successfully completed through the College of Education. Students choosing the Secondary Teacher Preparation Option should obtain advising from an academic advisor in the College of Education no later than the beginning of the junior year.

MATH A305 Introduction to Geometries 3
MATH A306 Discrete Methods 3
MATH A420 History of Mathematics 3

a. Complete two additional courses from the following list: MATH A302, MATH A321, MATH A324, MATH A371, MATH A407, MATH A408, MATH A410, MATH A422, MATH A426, STAT A308, STAT A402, STAT A403, STAT A404, STAT A405, STAT A407, STAT A408.

b. All Mathematics majors must take a standardized test of knowledge of mathematics approved by the Mathematics faculty for the purpose of evaluating program effectiveness. There is no minimum score required for graduation. This test will normally be taken during the senior year.

c. A total of 120 credits is required for the degree, of which 42 credits must be upper division.

BACHELOR OF SCIENCE, MATHEMATICS

ADMISSION REQUIREMENTS
Complete the Baccalaureate Degree Programs Admission Requirements listed at the beginning of this chapter.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements.

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS
Students pursuing a Bachelor of Science in Mathematics may choose from two options:

1. Complete the following core courses (27 Credits)
   STAT A307 Probability 3
   CS A109 Computer Programming 3
   or
   CS A110 Java Programming 3
   or
   CS A111 Visual Basic.Net Programming 3
   or
   CS A201 Programming Concepts I (3)
   MATH A200 Calculus I 4
   MATH A201 Calculus II 4
   MATH A202 Calculus III 4
   MATH A215 Introduction to Mathematical Proofs 2
   MATH A303 Introduction to Modern Algebra 3
   MATH A314 Linear Algebra 3

2. Complete one of the following options:
   Traditional Option (21 Credits)
   MATH A302 Ordinary Differential Equations 3
   MATH A321 Analysis of Several Variables 3
   MATH A324 Advanced Calculus 3
   MATH A410 Introduction to Complex Analysis 3
   MATH A422 Partial Differential Equations 3
   a. Complete three additional courses from the following list: MATH A305, MATH A406, MATH A371, MATH A407, MATH A408, MATH A410, MATH A420, MATH A422, MATH A426, STAT A308, STAT A402, STAT A403, STAT A404, STAT A405, STAT A407, STAT A408.

b. All Mathematics majors must take a standardized test of knowledge of mathematics approved by the Mathematics faculty for the purpose of evaluating program effectiveness. There is no minimum score required for graduation. This test will normally be taken during the senior year.

c. A total of 120 credits is required for the degree, of which 42 credits must be upper division.
MINOR, MATHEMATICS

Students majoring in another subject who wish to minor in Mathematics must complete the following requirements. A total of 18 credits is required for the minor, of which 6 must be approved upper division Mathematics credits.

MATH A200  Calculus I  4
MATH A201  Calculus II  4
MATH A202  Calculus III  4
Approved upper division Mathematics electives  6

MINOR, MATHEMATICS

Students majoring in another subject who wish to minor in Mathematics must complete the following requirements. A total of 18 credits is required for the minor, 6 of which must be approved upper division Mathematics credits.

MATH A200  Calculus I  4
MATH A201  Calculus II  4
MATH A202  Calculus III  4
Approved upper division Mathematics electives  6
HONORS IN MUSIC
The Department of Music recognizes students who demonstrate exceptional promise in their discipline by awarding them Departmental Honors in Music upon graduation. To graduate with honors, the student must:

1. Be a declared Music major.
2. Meet all requirements for the Bachelor of Arts, Music or the Bachelor of Music, Performance; or the Bachelor of Music, Emphasis Music Education degree.
3. Maintain a cumulative grade point average of 3.50 or higher in all music courses applicable to the degree.
4. Meet the requirements for Graduation with Honors listed in Chapter 7 of the UAA catalog. These include:
   a) A cumulative grade point average of 3.50 or higher in all college work attempted at both UAA and at all other accredited institutions attended and for all courses used to fulfill the degree program.
   b) Completion of at least 30 academic credits at this institution.
5. Complete MUS A462 which includes a senior recital with a grade of B or above.

Note: Bachelor of Arts Music majors may upon successful completion of MUS A262 with a grade of A, offer an honors performance for faculty adjudicators selected by the department chair and the candidate.

BACHELOR OF ARTS, MUSIC

BACHELOR OF MUSIC, PERFORMANCE

BACHELOR OF MUSIC, MUSIC EDUCATION EMPHASIS

ADMISSION REQUIREMENTS: ALL MAJORS
Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations. Students who declare a Music major and who qualify for admission to baccalaureate study are given pre-major status. Declaring a major in Music assumes evidence of musicianship and performance ability. To demonstrate music skills, all incoming freshmen are required to complete a performance evaluation. This assists faculty in determining each student’s readiness for entry into juried private lessons, ensembles, and academic music classes. Students judged not ready for juried private lessons will be required to complete non-juried private lessons to build performance skills. To develop prerequisite understanding of music theory, those students not ready for Theory and Sightsinging/Eartraining courses will be required to complete Music Fundamentals. Upon completion of the performance evaluation, advisors will assist students in planning a first year of study best suited to their needs.

ACADEMIC PROGRESS: ALL MAJORS
Upon successful completion of one semester of juried private lessons (MUS A161), students file a Change of Degree form to move from pre-major to major status. At the end of the sophomore year, all music majors must demonstrate a satisfactory level of proficiency of performance on their applied instrument in order to advance to upper division courses. A student may elect to continue private instruction at the 200 level in attempting to pass requirements for admission to upper division study. Students must also have completed a music technical training workshop and must have demonstrated proficiency in all aspects of recital technical support.

MUS A154A, Functional Piano I, and the piano proficiency examination by jury, must be passed prior to completion of 60 credits in the program. Music majors may not enroll in certain upper division music courses until this jury examination is passed. See Music degree listings for specific requirements.

GRADUATION REQUIREMENTS: ALL MAJORS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences Requirements for either a BA or BM, Performance degree, listed at the beginning of the CAS section. (There are no additional requirements for the BM, Music Education Emphasis degree).

D. MAJOR REQUIREMENTS: ALL MAJORS

1. Complete the following required courses:
   MUS A131 Music Theory I 3
   MUS A132 Music Theory II 3
   MUS A133 Sightsinging and Ear Training I 2
   MUS A134 Sightsinging and Ear Training II 2
   MUS A154 Functional Piano I 1
   MUS A221 History of Music I 3
   MUS A222 History of Music II 3
   MUS A231 Music Theory III 3
   MUS A232 Music Theory IV 3
   MUS A233 Sightsinging and Ear Training III 2
   MUS A234 Sightsinging and Ear Training IV 2
   MUS A280 Basic Conducting 2
   MUS A331 Form and Analysis 3

2. All Music majors enrolled in juried private music lessons must, during each semester of enrollment:
   a. Perform in at least one student recital;
   b. Stand for jury finals;
   c. Participate in an appropriate ensemble. See the ensemble requirements specific to each degree below;
   d. Attend department-approved recitals and concerts which provide a variety of musical experiences and expand the curriculum. A minimum attendance requirement is set by the department each semester; failure to meet this number will lower by one letter the grade assigned for private lessons.

3. Music majors may not enroll in certain upper division academic courses (MUS A331, MUS A422-A424, or MUS A431-A432, for example) or in upper division private lessons (MUS A361) until they have passed the Piano Proficiency examination by jury.

E. ADDITIONAL MAJOR REQUIREMENTS:

BACHELOR OF ARTS, MUSIC

1. Private lessons (on your major instrument, MUS A161-MUS A262) 4

2. Ensemble
   Choose the class appropriate to your major instrument:
   **Voice Majors:**
   MUS A301B University Singers (2)
   **Piano Majors:**
   MUS A302B Chamber Music and Accompanying (2)
   **Wind Majors:**
   MUS A303B University Wind Ensemble (2)
   **Percussion Majors:**
   MUS A303B University Wind Ensemble (2)
String Majors:  
MUS A307B University Sinfonia (2)

Guitar Majors:  
MUS A409B University Guitar Ensemble (2)

3. Master Class  
Four semesters of Master Class are required.  
Choose the class appropriate to your major instrument:  

Wind and String Majors:  
MUS A466 String and Wind Master Class (1)

4. Sixty-seven credits must be completed outside Music.

5. A total of 120 credits is required for the degree, of which 42 credits must be upper division.

F. ADDITIONAL MAJOR REQUIREMENTS:  
BACHELOR OF MUSIC, PERFORMANCE

1. Private lesson - on your major instrument:  
MUS A161-A462 (1-2)  

2. Ensemble  
Choose the class appropriate to your major instrument:  

Voice Majors:  
MUS A301B University Singers (2)

Wind Majors:  
MUS A303B University Wind Ensemble (2)

Percussion Majors:  
MUS A303B University Wind Ensemble (2)

String Majors:  
MUS A307B University Sinfonia (2)

Piano Majors:  
MUS A302B Chamber Music and Accompanying (2)  
MUS A301B University Singers (2)  
MUS A303B University Wind Ensemble (2)  
MUS A307B University Sinfonia (2)

Guitar Majors:  
MUS A409B University Guitar Ensemble (2)  
MUS A301B University Singers (2)  
MUS A303B University Wind Ensemble (2)  
MUS A307B University Sinfonia (2)

3. Chamber Ensemble  
Wind, Voice and String majors only must meet a two-semester small ensemble requirement. This requirement is fulfilled by performing on your major instrument in one of these courses:  
MUS A365, MUS A302, MUS A313, MUS A407, MUS A408 or MUS A409.

Note: Credits completed will vary from 2 to 4, depending upon which courses are selected.

4. Master Class  
Eight semesters of Master Class are required.  
Choose the class appropriate to your major instrument:  

Wind and String Majors:  
MUS A466 String and Wind Master Class (1)

5. Conducting:  
MUS A38 Choral Conducting (2)  
or  
MUS A382 Instrumental Conducting (2)

6. Upper division Elective Credits:  
Select from these 3-credit courses:  
MUS A422-A424 History Seminars (3)  
MUS A431 Counterpoint (3)  
MUS A432 Orchestration (3)

7. Students seeking a Bachelor of Music, Performance degree must complete a half recital their junior year and a full recital their senior year. Students must demonstrate in these recitals the ability to perform a program of artistic merit satisfactorily in public.

8. It is required that students select any two courses (8 credits) of oral language to satisfy the CAS, BM Performance degree.

9. A total of 122-130 credits is required for the degree, of which 42 credits must be upper division.

G. ADDITIONAL MAJOR REQUIREMENTS:  
BACHELOR OF MUSIC, MUSIC EDUCATION EMPHASIS

1. Private lesson - on your major instrument:  
MUS A161-A462 (1-2)  

2. Ensemble  
Choose the class appropriate to your major instrument:  

Voice Majors:  
MUS A301B University Singers (2)

Wind Majors:  
MUS A303B University Wind Ensemble (2)

Percussion Majors:  
MUS A303B University Wind Ensemble (2)

String Majors:  
MUS A307B University Sinfonia (2)

Piano Majors:  
MUS A302B Chamber Music and Accompanying (2)  
MUS A301B University Singers (2)  
MUS A303B University Wind Ensemble (2)  
MUS A307B University Sinfonia (2)

Guitar Majors:  
MUS A409B University Guitar Ensemble (2)  
MUS A301B University Singers (2)  
MUS A303B University Wind Ensemble (2)  
MUS A307B University Sinfonia (2)

3. Chamber Ensemble  
Wind, Voice and String majors only must meet a two-semester, small ensemble requirement. This requirement is fulfilled by performing on your major instrument in one of these courses:  
MUS A302 Chamber Music and Accompanying (1-2)  
MUS A313 Opera Workshop (2)  
MUS A365 Chamber Ensemble (1)
MINOR, MUSIC

Students majoring in another subject who wish to minor in music must complete the following requirements. Nineteen credits are required for the minor, 8 of which must be upper division.

1. MUS A111 Fundamentals of Music (3)  
   or  
   MUS A131 Music Theory I (3)  
   or  
   MUS A132 Music Theory II (3)

2. MUS A121 Music Appreciation (3)  
   or  
   MUS A221 History of Music I (3)

3. Private Lessons  
   MUS A161-A462 (1-2)  
   To complete this requirement, students must successfully pass two jury exams, one at the end of each semester of study.

4. Master Class  
   Choose the class appropriate to your major instrument:  
   MUS A466 String and Wind Master Class (1)  
   MUS A467 Piano Master Class (2)  
   MUS A468 Voice Master Class (2)  
   MUS A469 Guitar Master Class (2)  
   MUS A408B University Percussion Ensemble (2)

5. Ensemble  
   Choose the ensemble appropriate to your major instrument:  
   MUS A301B University Singers (2)  
   MUS A302B Chamber Music and Accompanying (2)  
   MUS A303B University Wind Ensemble (2)  
   MUS A307B University Sinfonia (2)  
   MUS A409B University Guitar Ensemble (2)

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NATURAL SCIENCES

ConocoPhillips Integrated Sciences Building (CPSB), Room 101,  
(907) 786-4770  
http://biology.uaa.alaska.edu

Modern sciences do not stand alone. Most draw heavily upon the tenets of at least one other discipline. The Natural Sciences curriculum emphasizes the interrelationships among the sciences and allows students to obtain a strong background in two or more sciences while meeting the requirements of a single degree program. A minimum of 74 science credits is required for this major, as specified below. For individuals pursuing careers as secondary science educators, it is required by the College of Education that they complete 12 credits in each of the following sciences: Biology, Chemistry, Physics, and Earth and Space Science.

The Natural Sciences program is administered by the Department of Biological Sciences. For further information about the Natural Sciences program, contact the chairperson of the Department of Biological Sciences. Upon acceptance into the major, an academic advisor from the Department of Biological Sciences will be assigned in accordance with the student’s declared area of emphasis.

BACHELOR OF SCIENCE, NATURAL SCIENCES

ADMISSION REQUIREMENTS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

ACADEMIC PROGRESS

In order to graduate with a BS in Natural Sciences, all courses covered under Major Requirements for a BS in Natural Sciences must be completed with a grade of C or better. Students who audit a course intended to meet the Natural Sciences degree requirements or who are unable to earn a grade of C or better in the course may repeat the course. All prerequisites
for courses used to meet the Natural Sciences degree requirements must be completed with a grade of C or better. Students repeating a course in the Department of Biological Sciences are required to complete all components of the course during the semester in which the course is retaken. For a course with a lecture and laboratory component, students may not carry forward an individual lecture or laboratory grade from a previous semester in which the course was taken.

**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

**A. GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.

**B. GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

**C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS**

Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section. It is recommended that MATH A200 or MATH A272, STAT A253 or STAT A307, and the Computer Programming requirements be completed in the first two years of study.

Note: Major requirements may also be used to satisfy the College of Arts and Sciences Requirements.

**D. MAJOR REQUIREMENTS**

Students must complete the following major requirements:

1. Complete three of the following course sequences:
   - BIOL A115/L Fundamentals of Biology I with Laboratory (4)
   - BIOL A116/L Fundamentals of Biology II with Laboratory (4)
   - CHEM A105 General Chemistry I (3)
   - CHEM A105L General Chemistry I Laboratory (1)
   - CHEM A106 General Chemistry II (3)
   - CHEM A106L General Chemistry II Laboratory (1)
   - GEOL A111 Physical Geology (4)
   - GEOL A221 Historical Geology (4)
   - PHYS A123 Basic Physics I (3) and
   - PHYS A123L Basic Physics I Laboratory (1)
   - PHYS A124 Basic Physics II (3) and
   - PHYS A124L Basic Physics II Laboratory (1)

   Note: It is recommended that the three science course sequences be completed in the first two years of study. For students whose emphasis lies in the area of the biological sciences, it is recommended that BIOL A242 and BIOL A252 be completed within the first two years of study, as it is a prerequisite for several upper division biology courses.

2. Complete an additional 50 science credits, of which at least 35-38 credits must be upper division from at least two science disciplines. UAA science courses approved for the Natural Sciences degree are listed below.

   - Anthropology
   - Astronomy
   - Biology
   - Chemistry
   - Computer Science
   - Environmental Studies
   - Geography
   - Geology
   - Geomatics
   - Health Sciences
   - Honors Program
   - Mathematics
   - Psychology
   - Statistics

   Other courses may be considered by petition. Acceptable credits from other accredited institutions include but are not limited to credits earned in the following disciplines:

   - Anthropology
   - Astronomy
   - Biology
   - Chemistry
   - Computer Science
   - Environmental Studies
   - Geography
   - Geology
   - Geomatics
   - Health Sciences
   - History
   - Mathematics
   - Psychology
   - Statistics

   Note: Credit for laboratory, internship, or clinical practicum courses will be awarded on an individual basis with the general rule of 1 credit for three lab hours applying in most cases.

3. Courses taken to meet the 50-credit Natural Science major degree requirement must be chosen with the approval of your advisor.

4. Submit a Program of Study-Natural Sciences Degree form signed by your advisor to both the Office of the Registrar and the Department of Biological Sciences during the semester prior to the semester in which you plan to graduate. All courses listed in the Program of Study-Natural Sciences Degree must be approved by your formal advisor before you can submit the form to the Office of the Registrar and the Department of Biological Sciences

5. A total of 120 credits is required for the degree, of which 42 credits must be upper division.

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PHILOSOPHY

Administration/ Humanities Building (ADM), Room 254, (907) 786-4455
http://philosophy.uaa.alaska.edu

Philosophy is the creative and critical reflection on enduring questions concerning the nature of the world and our place in it. For example, philosophy asks metaphysical questions about what exists, epistemic questions about what we can claim to know, and ethical questions about the nature of the good life and right action. In addition, philosophy involves the study and practice of good reasoning and clear thinking, skills that are essential to any discipline or profession.

The Philosophy Department offers a variety of courses in the central areas of philosophy that acquaint students with the rich, living traditions of the world and explore historical and contemporary issues. Departmental faculty have a wide range of philosophical interests and expertise, with a particular strength in theoretical and applied ethics.

The Philosophy Department offers several options for students interested in the study of philosophy: (1) a Bachelor of Arts in Philosophy, with a philosophy track, a law track, or an applied ethics track; (2) a Certificate of Applied Ethics; (3) a minor in Philosophy, with a philosophy track or law track. Please read the introduction to each program below to determine which one of these options may be suitable for your particular needs.

The Philosophy Track is designed for students planning to go on to graduate school in Philosophy or other humanities areas such as Religious Studies, Theology, or Classics. It would also be a suitable second major for those planning graduate studies in History, English, French or German literature. In general, it is ideal for students who are seeking jobs in fields where writing, critical thinking, and general liberal arts skills are in demand, or for life-long learners interested in philosophy.

The Law Track is designed for students planning on attending law school or related professional schools.

The Applied Ethics Track is designed for four types of students: (1) those who intend to pursue a graduate degree in philosophy with programs that specialize in applied ethics; (2) those interested in a strong liberal arts degree (3) those who are seeking careers in the nonprofit sector, public administration, helping professions, or government service; and (4) those interested in the study of practical ethics.

The Certificate in Applied Ethics is designed for students whose intended careers will be complemented by emphasis in ethics education: for example, business majors who may plan also to be ethics officers; those who intend to become professionals, such as lawyers, nurses, social workers, or engineers; or those in public administration, the helping professions, government service, and nonprofits. It will also be applicable to persons presently in the workforce such as corporate ethics officers, executives, and professionals who are seeking career advancement or simply want to acquire skills and knowledge in ethical decision-making.

The Minor in Philosophy is designed for students who are interested in philosophy but pursuing another degree and for students majoring in a discipline that is complemented by the study of philosophy, such as History, Justice, English, Psychology, Anthropology, Sociology, Mathematics, or the natural sciences. The Law Track is intended for students who plan to attend law school but may be majoring in another degree. This is an appropriate minor for Justice majors.

PHILOSOPHY DEPARTMENT HONORS

The Department of Philosophy recognizes exceptional undergraduate students by awarding them Departmental Honors in Philosophy. Students majoring in any one of the Bachelor of Arts tracks in Philosophy are eligible to graduate with departmental honors upon satisfaction of all of the following requirements:

1. Meet the requirements for a Bachelor of Arts degree in Philosophy.
2. Meet the requirements for Graduation with Honors as listed in Chapter 7 of this UAA catalog.
3. Maintain a grade point average of 3.75 or above in courses specific to the Philosophy major.
4. Complete the Senior Research Project, PHIL A498, with an honor grade (A), and a recommendation for departmental honors from the student’s faculty committee for this course.
5. Notify the chair in writing, on or before date on which the Application for Graduation with the Office of the Registrar is filed, of the intention to graduate with departmental honors.

BACHELOR OF ARTS, PHILOSOPHY

ADMISSION REQUIREMENTS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees located at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences Requirements for the Bachelor of Arts listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS

1. Complete the following core courses:

   Logical Reasoning and Argumentation:
   PHIL A101 Introduction to Logic 3

   Foundations of Philosophy:
   PHIL A201 Introduction to Philosophy 3
   PHIL A211 History of Philosophy I 3
   PHIL A212 History of Philosophy II 3

   Ethical Theory and Value studies:
   PHIL A301 Ethics 3

2. Choose one of the following tracks:

   Note: Courses selected may not be used in more than one track.

   Philosophy Track (21 credits)
   Complete the following courses:
   Applied Ethics: Complete one course from the following:
   PHIL A302 Biomedical Ethics (3)
   PHIL A303 Environmental Ethics (3)
   PHIL A304 Business Ethics (3)
   PHIL A405 Professional Ethics (3)

   Philosophical Problems: Complete one course from each of the following two groups:
   Group A
   PHIL A317 Metaphysics (3)
   PHIL A309 Philosophy of Mind (3)
   Group B
   PHIL A318 Epistemology (3)
   PHIL A421 Philosophy of the Sciences (3)

   Topics in Philosophy: Complete one course from the following:
   PHIL A313 Eastern Philosophy and Religion (3)
   PHIL A314 Western Religion (3)
   PHIL A415 Feminist Philosophy(3)
   PHIL A401 Aesthetics (3)
   PHIL A406 Philosophy of Law (3)
Complete the following three courses (9 credits):
- PHIL A423 Advanced Ethical Theory
- PHIL A490 Topics in Contemporary Philosophy
- PHIL A492 Seminar on an Enduring Philosopher

Law Track (21 credits)
Complete the following courses:
- Professional Ethics:
  - PHIL A405 Professional Ethics
- Philosophical Foundations of the Law:
  - PHIL A406 Philosophy of Law
  - PS A332 History of Political Philosophy I: Classical
  - PS A333 History of Political Philosophy II: Modern
  - JUST A250 Development of Law
  - PS/JUST A343 Constitutional Law
  - PHIL A423 Advanced Ethical Theory

Applied Ethics Track (18 credits)
Complete the following courses:
- Professional Ethics:
  - PHIL A405 Professional Ethics
- Applied Ethics Core: Complete two from the following:
  - PHIL A302 Biomedical Ethics
  - PHIL/ENVI A303 Environmental Ethics
  - PHIL A304 Business Ethics
  - PHIL A406 Philosophy of Law
  - PHIL A415 Feminist Philosophy
- Complete the following three courses (9 credits):
  - PHIL A423 Advanced Ethical Theory
  - PHIL A490 Topics in Contemporary Philosophy
  - PHIL A495 Service Learning in Applied Ethics

3. A total of 120 credits is required for the degree of which 42 credits must be upper division.

UNDERGRADUATE CERTIFICATE, APPLIED ETHICS

ADMISSION REQUIREMENTS
A student must satisfy the Admission to Certificate Requirements in Chapter 7, Academic Standards and Regulations.

GRADUATION REQUIREMENTS
1. Complete the following requirements:
   - Written Communication Skills
     Complete two courses from the GER requirements for written communication skills (6 credits).
   - Oral Communication Skills
     Complete one course from the GER requirements for oral communication skills (3 credits).
   - Quantitative Skills
     Complete one course from the GER requirements for quantitative skills (3 credits).
   - Critical Reasoning Skills
     Complete the following course:
     - PHIL A101 Introduction to Logic
   - Ethical Theory
     Complete the following course:
     - PHIL A301 Ethics
   - Applied Ethics
     Complete two courses from the following:
     - PHIL A302 Biomedical Ethics
     - PHIL/ENVI A303 Environmental Ethics
     - PHIL A304 Business Ethics

2. A total of 30 credits is required for the certificate.

MINOR, PHILOSOPHY
Students majoring in another subject who wish to minor in Philosophy must complete the following requirements. A total of 18 credits is required for the minor, 6 of which must be upper division.

Choose one of the following tracks (18 credits):
(Courses selected may not be used in more than one track.)

Philosophy Track
Complete the following courses:
- Logical Reasoning and Argumentation:
  - PHIL A101 Introduction to Logic
- Foundations of Philosophy:
  - PHIL A201 Introduction to Philosophy
- PHIL A211 History of Philosophy I
- PHIL A212 History of Philosophy II
- Complete two courses from the following:
  - PHIL A301 Ethics
  - PHIL A302 Biomedical Ethics
  - PHIL/ENVI A303 Environmental Ethics
  - PHIL A304 Business Ethics
  - PHIL A309 Philosophy of Mind
  - PHIL A317 Metaphysics
  - PHIL A318 Epistemology
  - PHIL A313 Eastern Philosophy and Religion
  - PHIL A314 Western Religion
  - PHIL A401 Aesthetics
  - PHIL A405 Professional Ethics
  - PHIL A406 Philosophy of Law
  - PHIL A415 Feminist Philosophy
  - PHIL A421 Philosophy of the Sciences

Law Track
Complete the following courses:
- Logical Reasoning and Argumentation:
  - PHIL A101 Introduction to Logic
- Foundations of Philosophy:
  - PHIL A201 Introduction to Philosophy
  - PHIL A211 History of Philosophy I
  - PHIL A212 History of Philosophy II
- Complete two courses from the following:
  - PHIL A406 Philosophy of Law
  - PHIL A423 Advanced Ethical Theory

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The department also offers minors in Political Science and Public Administration. Students selecting the Political Science minor take two introductory courses and four additional, upper division Political Science electives. Students selecting the Public Administration minor take two introductory courses; courses in public administration, public policy, and organization theory; and one additional starred course in Political Science.

The Department welcomes all students who want to learn more about politics. It reserves its honors for majors who earn qualifying marks both in a senior seminar and on a comprehensive examination.

HONORS IN POLITICAL SCIENCE
Students majoring in Political Science are eligible to graduate with departmental honors if they satisfy all of the following requirements:

1. Meet the requirements for a BA degree in Political Science.
2. Maintain a grade point average of 3.50 or above in courses applicable to the degree requirements.
3. Complete PS A492 Senior Seminar in Politics in the final spring term of study with an honor grade (A or B).
4. Receive an honors score (based upon criteria established by the department) on a comprehensive examination for majors.

Note: Departmental honors are awarded by the faculty in Political Science.

BACHELOR OF ARTS, POLITICAL SCIENCE
ADMISSION REQUIREMENTS
Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS
Note: Courses required for Political Science minors which may be used to meet General Education Requirements and/or College of Arts and Sciences BA requirements are designated by a section mark ($) after their titles.

1. Complete the following core courses:
   - PS A101 Introduction to American Government § 3
   - PS A102 Introduction to Political Science § 3
   - PS A301 Comparative Political Economy 3
   - PS A330 The American Political Tradition 3
   - PS/SOC A361 Social Science Research Methods 3
   - PS A492 Senior Seminar in Politics 3

2. Complete one starred (*) course from each of the five areas below: 15

   Comparative Politics
   *PS A311 Comparative Politics § (3)
   PS A312 Comparative Politics: Case Studies (3)
   PS/AKNS A411 Tribes, Nations, and Peoples (3)
   PS A490 Studies in Politics (1-3)

   International Relations
   *PS A321 International Relations § (3)
   *PS A322 United States Foreign Policy (3)
   PS A324 Model United Nations (1/3)

PHYSICS
ConocoPhillips Integrated Sciences Building (CPSB), Room 101, (907) 786-1238
http://salt.uaa.alaska.edu

Physics is the universal science. It is the rational development of experiments, observations, and theories to explain the fundamental structure of the universe. Physicists study everything from the smallest subatomic particle to the entire universe.

The laws that physicists have discovered form the basis for understanding the world and also for making the devices and machines that we see and use every day.

The Physics minor will provide a valuable option especially to Engineering, Math/Computer Science, Chemistry, Biology, or Geology majors. It is widely known that a strong physics background increases a graduate's employability.

MINOR, PHYSICS
Students majoring in another subject who wish to minor in Physics must complete for following requirements. A total of 18 credits is required for the minor.

PHYS A211 General Physics I 3
PHYS A211L General Physics I Laboratory 1
PHYS A212 General Physics II 3
PHYS A212L General Physics II Laboratory 1
PHYS A303 Modern Physics 3

Upper division Physics electives. 7

FACULTY
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POLITICAL SCIENCE
Social Sciences Building (SSB), Room 367, (907) 786-4897
http://polsci.uaa.alaska.edu

In its oldest definition, political science was called the master science. More modern definitions are less comprehensive, but of the social sciences, political science has perhaps the least definite boundaries and the widest concerns. Consequently, political science covers many different subjects, uses several diverse methods, and appeals to a variety of students.

Students come to political science because they are interested in politics: some of them with an eye to a political career, some with a scholarly intent, and many wishing to know more about this central, inescapable human concern. The Department of Political Science aims to make all students aware and critical of their first opinions (since human beings are at their most opinionated in politics); to open up the possibilities of politics; to reveal the permanent political problems; to impart an understanding the world and also for making the devices and machines that we see and use every day.

The Department welcomes all students who want to learn more about politics. It reserves its honors for majors who earn qualifying marks both in a senior seminar and on a comprehensive examination.

HONORS IN POLITICAL SCIENCE
Students majoring in Political Science are eligible to graduate with departmental honors if they satisfy all of the following requirements:

1. Meet the requirements for a BA degree in Political Science.
2. Maintain a grade point average of 3.50 or above in courses applicable to the degree requirements.
3. Complete PS A492 Senior Seminar in Politics in the final spring term of study with an honor grade (A or B).
4. Receive an honors score (based upon criteria established by the department) on a comprehensive examination for majors.

Note: Departmental honors are awarded by the faculty in Political Science.

BACHELOR OF ARTS, POLITICAL SCIENCE
ADMISSION REQUIREMENTS
Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS
Note: Courses required for Political Science minors which may be used to meet General Education Requirements and/or College of Arts and Sciences BA requirements are designated by a section mark ($) after their titles.

1. Complete the following core courses:
   - PS A101 Introduction to American Government § 3
   - PS A102 Introduction to Political Science § 3
   - PS A301 Comparative Political Economy 3
   - PS A330 The American Political Tradition 3
   - PS/SOC A361 Social Science Research Methods 3
   - PS A492 Senior Seminar in Politics 3

2. Complete one starred (*) course from each of the five areas below: 15

   Comparative Politics
   *PS A311 Comparative Politics § (3)
   PS A312 Comparative Politics: Case Studies (3)
   PS/AKNS A411 Tribes, Nations, and Peoples (3)
   PS A490 Studies in Politics (1-3)

   International Relations
   *PS A321 International Relations § (3)
   *PS A322 United States Foreign Policy (3)
   PS A324 Model United Nations (1/3)
MINORS

The Department of Political Science offers two minors, one in Political Science and one in Public Administration. A minor requires 18 credits earned according to the following rules.

Note: Courses required for Political Science minors which may be used to meet General Education Requirements and/or College of Arts and Sciences BA requirements are designated by an section mark ($) after their titles.

POLITICAL SCIENCE MINOR

Introductory courses:
- PS A101 Introduction to American Government § 3
- PS A102 Introduction to Political Science § 3
- Upper division Political Science courses 12

PUBLIC ADMINISTRATION MINOR

Introductory courses:
- PS A101 Introduction to American Government § 3
- PS A102 Introduction to Political Science § 3

Additional courses, as follows:
- PS A347 Public Administration 3
- PS A348 Public Policy 3
- PS A453 Organization Theory 3
- One additional starred (*) course from one of the areas listed in item 2 above under major requirements. 3

Note: Political Science majors who earn a minor in Public Administration may not count upper division courses required for the minor (i.e., PS A347, PS A348, or PS A453) toward the major requirements in item 3 above for additional upper division credits in Political Science.

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PSYCHOLOGY

Social Sciences Building (SSB), Room 214, (907) 786-1711
http://psych.uaa.alaska.edu

The undergraduate Psychology program offers mentorship and high-quality training in the science of behavior and mental processes and, in so doing, enriches the lives of our students, citizens of Alaska, and the field of psychology. In service of this mission, the faculty provides effective instruction, academic and career advising, research training, professional skill development, service opportunities, preparation for graduate school, and employment in the human service field.

The psychology major requirements are flexible and are designed to serve a variety of career goals. Both the Bachelor of Arts and the Bachelor of Science degrees are available. The student majoring in psychology pursuing a general interest in human nature will probably take a different sequence of Psychology courses than a student who is preparing for advanced work in psychology. All students are encouraged to plan undergraduate work carefully. Early and frequent consultation with an advisor is helpful in selecting courses which will provide a solid foundation in psychology and a good general education.

OCCUPATIONAL ENDORSEMENT CERTIFICATE, COMMUNITY MENTAL-HEALTH SERVICES

Students can earn on their transcript an Occupational Endorsement Certificate in Community Mental-Health Services. This transcripted certificate is available to any student – not just Psychology majors – who receive grades of C or higher in the following five courses designed to provide some of the knowledge and skills appropriate for a variety of entry-level jobs in community mental-health settings. Taken together, the five courses and their two prerequisites introduce students to mental-health problems, communication skills, consumer empowerment, assessment, professional networking, service facilitation, behavior change processes, advocacy, crisis intervention, organizational settings, documentation, ethics, and professional behavior. Mental health problems common to Alaska receive special emphasis. Two semesters of community placement allow skills to be practiced in mental health settings.

OCCUPATIONAL ENDORSEMENT CERTIFICATE REQUIREMENTS

ADMISSION

Complete admission requirements for Occupational Endorsement Certificates found in Chapter 7 of this catalog.

1. Satisfy General University Requirements for Occupational Endorsement Certificates found in the beginning of this chapter.
2. Complete the each of the following courses with a grade of C or higher:
   - PSY A327 Field Experience in Psychology I* 3
   - PSY A372 Community Psychology* 3
   - PSY A427 Field Experience in Psychology II 3
Students must complete the following graduation requirements:

1. Satisfy all requirements for a BA or BS degree in Psychology.
3. Take PSY A420 Conducting Research in Psychology.
5. Complete PSY A499 Senior Thesis. The thesis project must be approved in advance by the Undergraduate Studies Committee and carried out by following applicable departmental guidelines.
6. Students intending to graduate with departmental honors must notify the Departmental Honors Committee in writing on or before the date they file their Application for Graduation with the Office of the Registrar.

**Graduation Requirements**

**Honors in Psychology**

The Department of Psychology recognizes exceptional undergraduate students by awarding them Departmental Honors in Psychology. To graduate with departmental honors, the student must be a declared Psychology major and meet the following requirements:

1. Satisfy all requirements for a BA or BS degree in Psychology.
3. Take PSY A412 Foundations of Modern Psychology.
4. Take PSY A420 Conducting Research in Psychology.
5. Complete PSY A499 Senior Thesis. The thesis project must be approved in advance by the Undergraduate Studies Committee and carried out by following applicable departmental guidelines.
6. Students intending to graduate with departmental honors must notify the Departmental Honors Committee in writing on or before the date they file their Application for Graduation with the Office of the Registrar.

**Bachelor of Arts, Psychology**

**Bachelor of Science, Psychology**

**Admission Requirements**

Complete the admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

**Graduation Requirements**

Students must complete the following graduation requirements:

A. **General University Requirements**

Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

B. **General Education Requirements**

Complete the General Education Requirements listed at the beginning of this chapter.

C. **College of Arts and Sciences Requirements**

Complete the College of Arts and Sciences Requirements listed at the beginning of this chapter.

D. **Major Requirements**

1. **Psychology Core Requirements** (30 Credits)
   - PSY A111 General Psychology 3
   - PSY A150 Lifespan Development 3
   - PSY A260 Statistics for Psychology 3
   - PSY A260L Statistics for Psychology Lab 1
   - PSY A261 Research Methods in Psychology 4
   - PSY A345 Abnormal Psychology 3
   - PSY A355 Learning and Cognition 4
   - PSY A368 Personality 3
   - PSY A370 Biological Psychology 3
   - PSY A375 Social Psychology 3

2. **Psychology Capstone Requirement** (3 Credits)
   A capstone course is required of all Psychology majors (BA or BS). This course is designed to synthesize and apply material from the Psychology major. Choice of a capstone should be based, at least in part, on the student's future career plans. Students planning to work in human service jobs following their baccalaureate degree should consider taking PSY A427. Students planning on graduate work in Psychology should consider taking PSY A412, PSY A420 or PSY A499. Students may elect to take all of these courses as upper division electives.
   - PSY A412 Foundations of Modern Psychology (3) or
   - PSY A420 Conducting Research in Psychology (3) or
   - PSY A427 Field Experience in Psychology II (3) or
   - PSY A428 Evolutionary Psychology (3) or
   - PSY A499 Senior Thesis (3)

3. **Psychology Electives** (9 Credits)
   Take an additional 9 credits of Psychology, of which must be upper division.

4. **Psychology Exit Examination**

All Psychology majors are required to take the exit examination, a standardized test of knowledge of psychology approved by the Psychology Department. There is no minimum score required for graduation.

5. A total of 120 credits is required for this degree, of which 42 credits must be upper division.

**Minor, Psychology**

Students majoring in another subject who wish to minor in Psychology must complete a total of 18 credits of Psychology, of which 6 must be upper division.

Requirements include the following:

1. PSY A111 General Psychology
2. Three additional courses required in the core above (see list D.1).
3. Two additional Psychology courses

**FACULTY**

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**Sociology**

Social Sciences Building (SSB), Room 372, (907) 786-1714
www.uaa.alaska.edu/sociology

Sociology is the study of social systems - the way they are formed, sustained, and changed. It is concerned with processes which shape individual communication, world views and behavior. The curriculum...
in sociology is meant to provide the student with the following; a contribution to a liberal arts education, preparation for graduate training in sociology, or preparation for applied sociology in the world of work. Within the major, students can select a specialization in Family and Life Cycles, Community and Change, or General Sociology with a focus on liberal arts. Within the Family and Community specializations, majors must select either an academic or applied focus.

**HONORS IN SOCIOLOGY**

Students majoring in Sociology are eligible to graduate with departmental honors if they satisfy all of the following:

1. Meet all the requirements for a BA or BS degree in Sociology.
2. Maintain a grade point average of 3.50 or above in all Sociology courses.
3. Attain a score at or above the 90th percentile on the ETS Major Field Test.

**BACHELOR OF ARTS, SOCIOLOGY**

**BACHELOR OF SCIENCE, SOCIOLOGY**

**ADMISSION REQUIREMENTS**

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

**A. GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for all Baccalaureate Degrees listed at the beginning of this chapter.

**B. GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

**C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS**

Complete the College of Arts and Sciences Requirements for either a BA or BS degree listed at the beginning of the CAS section.

**D. MAJOR REQUIREMENTS**

1. Complete Sociology core courses:
   - SOC A101 Introduction to Sociology (3)
   - SOC/PS A361 Social Science Research Methods (3)
   - SOC A307 Demography (3)
   - SOC A402 Theories of Sociology (3)
   - SOC/PSY A453 Application of Statistics to the Social Sciences (4)
   - SOC A488 Capstone Seminar (3)

2. Complete one of the following options:
   
   **Option I: Family and Life Cycles** (18 credits)
   
   For majors specializing in small groups and family systems:
   
   A. Complete one general background course:
      
      SOC A242 An Introduction to Marriage, Family, and Intimate Relationships (3)
      
      SOC A342 Sexual, Marital and Family Lifestyles (3)
   
   B. Select either the academic emphasis or the applied emphasis:
      
      1) For the academic emphasis complete five courses from the following list or four courses from the following list and any other 3-credit Sociology course of your choice that is not used to meet another Sociology requirement.
      
      SOC A110 Introduction to Gerontology (3)
      
      SOC A246 Adolescence (3)
      
      SOC A280 Seminar in Contemporary Issues (3)
      
      SOC A375 Social Psychology (3)
      
      SOC A310 Sociology of Aging (3)
      
      SOC A342 Sexual, Marital, and Family Lifestyles (3)
      
      SOC A352 Women and Social Action (3)
      
      SOC A377 Men, Women and Change (3)
      
      SOC A387 Gay and Lesbian Lifestyles (3)
      
      SOC A452 Violence in Intimate Relationships (3)
      
      SOC A490 Selected Topics in Contemporary Issues (3)
      
      SOC A530 Women and Social Action (3)
      
      SOC A487 Sociology Practicum (3)
      
      (may not be repeated if used to meet General Area course requirement)
      
      **Option II: Community and Change** (18 credits)
      
      For majors specializing in community and social change:
      
      A. Complete 6 credits from the following general background courses:
      
      1) Select either:
         
         SOC A201 Social Problems and Solutions (3)
         
         or
         
         SOC A202 The Social Organization of Society (3)
      
      2) Select one course from the following list:
         
         SOC A375 Social Psychology (3)
         
         SOC A351 Political Sociology (3)
         
         SOC A363 Social Stratification (3)
      
      B. Select either the academic emphasis or the applied emphasis:
      
      1) For the academic emphasis complete four courses from the following list:
         
         SOC A222 Small and Rural Communities (3)
         
         SOC A280 Seminar in Contemporary Issues (3)
         
         SOC A309 Urban Sociology (3)
         
         SOC A310 Sociology of Aging (3)
         
         SOC A347 Sociology of Religion (3)
         
         SOC A370 Medical Sociology (3)
         
         SOC A377 Men, Women and Change (3)
         
         SOC A404 Environmental Sociology (3)
         
         SOC A405 Social Change (3)
         
         SOC A407 Formal Organizations (3)
         
         SOC A408 Sociology of Race and Ethnicity (3)
         
         SOC A490 Selected Topics in Social Area courses (3)
         
      2) For the applied emphasis complete 12 credits 12
         
         Complete the following:
         
         SOC/JUST A454 Evaluation Research and Change (3)
         
         a) For the remaining 9 credits, you may select all 9 credits from the following list:
         
         SOC A352 Women and Social Action (3)
         
         SOC A373 Strategies of Community Change (3)
         
         SOC A487 Sociology Practicum (3)
         
         (may be repeated for up to 6 credits)
Statistics courses are offered in the Department of Mathematical Sciences.

http://math.uaa.alaska.edu

Social Sciences Building (SSB), Room 154, (907) 786-1744

Statistics courses are offered in the Department of Mathematical Sciences.

http://math.uaa.alaska.edu

During the past several decades, the social and economic structure of the United States has shifted from an industrialized basis to an information and service base. Rapid development of computer technology has led to an increase in the use of statistics as a tool for analyzing data across all disciplines. Increasing demand exists for individuals with training in statistical analysis. The unprecedented growth of research institutes nationwide confirms the importance of sampling and statistical analysis.

Statistics is now widely used in a broad spectrum of disciplines. There is, and will continue to be, substantial demand among students and various entities within the community for this program.

**MINOR, STATISTICS**

Students majoring in another subject who wish to minor in Statistics must complete the following requirements:

1. Complete these required courses:
   - STAT A307 Probability 3
   - STAT A308 Intermediate Statistics for the Sciences 3
   - MATH A200 Calculus I 4
   - MATH A201 Calculus II 4

2. Complete a minimum of 9 credits from the following:
   - STAT A402 Scientific Sampling (3)
   - STAT A403 Regression Analysis (3)
   - STAT A404 Analysis of Variance (3)
   - STAT A405 Nonparametric Statistics (3)
   - STAT A407 Time Series Analysis (3)
   - STAT A408 Multivariate Statistics (3)
   - STAT A490 Selected Topics in Statistics (1-3)
   - MATH A371 Stochastic Processes (3)
   - MATH A407 Mathematical Statistics I (3)
   - MATH A408 Mathematical Statistics II (3)

3. A total of 23 credits is required in the minor.

**FACULTY**

Jeff Bromagin, Adjunct, AFJF82@uaa.alaska.edu
Kanapathi Thiru, Professor/Chair, AFKT@uaa.alaska.edu
Rieken, Venema, Assistant Professor, AFRV1@uaa.alaska.edu

**THEATRE**

Fine Arts Building (ARTS), Room 302, (907) 786-1792
http://theatre.uaa.alaska.edu

The Department of Theatre and Dance offers a well-rounded liberal arts approach in its curriculum. Theatre courses cover all the basic areas of theatrical endeavor, including acting, movement for the actor, directing, stagecraft, scene design, lighting, costuming, makeup, dramatic literature, theatre history, dramatic theory and criticism, and play writing. The dance program offers courses in dance techniques, choreography, improvisation, dance history and dance research methods.

Theatre is the art of giving life in performance to dramatic literature. Production is at the very center of our award-winning Theatre and Dance program. Each season UAA Theatre and Dance produces four plays and two dance concerts on its “modified thrust” Mainstage, and in the Jerry Harper Studio Theatre, a fully equipped black-box space. Student-directed scenes, one-acts, and full length plays are also presented yearly in the Harper. Department plays are cast at open auditions and on average more than 100 majors, non-majors and members of the community are involved in our productions each year. All Theatre and Dance majors are required to participate in Mainstage productions and/or related departmental activities.

Dance as performance and as theoretical discourse from a multidisciplinary and multicultural perspective is primary in the Dance program. As in theatre, production is also at the heart of the program, with the UAA Dance Ensemble as the core performing group. Each year
we feature two dance productions, Dance Ensemble's annual New Dances concert and our Expanding the Stage offering either on Mainstage and/or on Second Stage theatre. Expanding the Stage is dedicated to the blurring of the boundaries between dance, theatre, and the visual arts. Guest artist residencies are a staple of the program, and other frequent performances include the UAA Jazz Week. All Dance minors, or Theatre majors choosing the dance emphasis, are required to participate in Dance Ensemble performances and/or related departmental activities.

HONORS IN THEATRE

Students majoring in Theatre are eligible to graduate with departmental honors if they satisfy all of the following requirements:

1. Meet the requirements for a BA degree in Theatre.
2. Maintain a grade point average of 3.50 or above in Theatre courses applicable to the major requirements.
3. Complete Individual Research (THR A498) with a minimum grade of B prior to enrolling in THR A499 Senior Thesis.
4. Complete THR A499 Senior Thesis with a minimum grade of B. The thesis project must be approved in writing in advance by the department faculty and be completed in the senior year. The project must culminate in a public performance or presentation.
5. Students intending to graduate with departmental honors must notify the department in writing at least one year prior to filing their Application for Graduation with Enrollment Management.

BACHELOR OF ARTS, THEATRE

ADMISSION REQUIREMENTS: ALL MAJORS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS, BA THEATRE

1. Complete the following required core courses (25 credits):
   - THR A121 Introduction to Acting 3
   - THR A131 Theatrical Production Techniques 3
   - THR A221 Movement for the Actor 3
   - THR A257 Costume Design and Construction I 3
   - THR A295 Theatre Practicum: Technical (1-3) 2
   - THR A431 Directing I 3
   - THR A411 History of the Theatre I 3
   - THR A412 History of the Theatre II 3
   - THR A495 Practicum: Technical (1-3) 2

2. Complete one of the following Design Area courses:
   - THR A347 Lighting Design (3)
   - THR A357 Costume Design and Construction II (3)

3. Students working toward a degree in Theatre may choose from the following two options:
   - **Theatre Option**: (18 credits)
     Complete the following required courses (12 credits):
     - THR A111 Introduction to the Theatre 3
     - THR A141 Stagecraft I 3
     - THR A243 Scene Design 3
   - **Theatre Option**: (6 credits)
     Complete the following required courses (12 credits):
     - THR A311 Representative Plays I (3)
     - THR A312 Representative Plays II (3)

Complete two of the following Performance Area courses:

- THR A222 Voice for the Actor (3)
- THR A315 Playwriting Workshop (3)
- THR A321 Meisner Acting Technique (3)
- THR A325 Theatre Speech and Dialects (3)
- THR A328 Acting Shakespeare (3)
- THR A329 Combat for the Stage I (3)
- THR A413 Dramatic Theory and Criticism (3)
- THR A435 Directing II (3)

**Dance Option**: (20 credits)

Complete the following required courses (13 credits):
- Any DNCE A100-Level Technique Class 2
- DNCE A170 Dance Appreciation 3
- DNCE A185 Design for Dance 3
- DNCE A262 Theory and Improvisation 2
- DNCE A361 Approaches to Dance Composition 3

Complete 7 credits from the following Performance Area courses:

- DNCE A101 Fundamentals of Ballet I (2)
- DNCE A121 Fundamentals of Modern I (2)
- DNCE A124 Dance for Musical Theatre I (2)
- DNCE A131 Fundamentals of Jazz I (2)
- DNCE A145 Dances of the West African Diaspora I (2)
- DNCE A146 Introduction to Alaska Native Dance (1-2)
- DNCE A151 Fundamentals of Tap I (1)
- DNCE A205 Fundamentals of Ballet II (2)
- DNCE A223 Fundamentals of Modern II (2)
- DNCE A224 Dance for Musical Theatre II (2)
- DNCE A245 Dances of the West African Diaspora II (2)
- DNCE A253 Beginning Tap II (1)
- DNCE A321 Intermediate Modern I (2)
- DNCE A322 Intermediate Modern II (2)
- DNCE A365 Dance Repertory and Performance (3)
- DNCE A465 Advanced Performance and Choreographic Workshop (3)

4. A total of 120 credits is required for the degree of which 42 credits must be upper division.

MINOR, THEATRE

Students majoring in another subject who wish to minor in Theatre must complete the following requirements. A total of 18 credits is required for the minor.

- THR A111 Introduction to the Theatre 3
- THR A121 Introduction to Acting 3
- THR A141 Stagecraft I 3
- THR A311 Representative Plays I (3)
- THR A312 Representative Plays II (3)
- THR A411 History of the Theatre I (3)
- THR A412 History of the Theatre II (3)
- Theatre electives 3

MINOR, DANCE

Students majoring in another subject who wish to minor in Dance must complete the following requirements. A total of 18 credits is required for the minor.

- DNCE A170 Dance Appreciation 3
- DNCE A262 Theory and Improvisation 2
- DNCE A361 Approaches to Dance Composition 3
DNCE A370  Interdisciplinary Dance Studies: Issues and Methods  3

And choose 7 more credits from the following courses:  7
DNCE A101  Fundamentals of Ballet I (2)
DNCE A121  Fundamentals of Modern Dance I (2)
DNCE A124  Dance for Musical Theatre I (2)
DNCE A131  Fundamentals of Jazz I (2)
DNCE A145  Dances of the West African Diaspora I (2)
DNCE A146  Introduction to Alaska Native Dance (1-2)
DNCE A151  Fundamentals of Tap I (1)
DNCE A205  Fundamentals of Ballet II (2)
DNCE A223  Fundamentals of Modern II (2)
DNCE A224  Dance for Musical Theatre II (2)
DNCE A245  Dances of the West African Diaspora II (2)
DNCE A321  Intermediate Modern I (2)
DNCE A365  Dance Repertory and Performance (3)
DNCE A465  Advanced Performance and Choreographic Workshop (3)

FACULTY
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Ekaterina Kuznetsova, Term Instructor, ANEGK@uaa.alaska.edu
Fran Lautenberger, Professor, AFFEL1@uaa.alaska.edu

WOMEN'S STUDIES
Social Sciences Building (SSB), Room 355 (907) 786-4837
http://womens.uaa.alaska.edu

The interdisciplinary Women's Studies minor offers students the opportunity to select courses from a variety of academic disciplines. Women's Studies courses are planned to foster open, vigorous inquiry about women, to challenge curricula in which women are absent or peripheral, to question cultural assumptions in light of new information, and to create a supportive environment for those interested in studying women.

MINOR, WOMEN'S STUDIES

Students majoring in another subject who wish to minor in Women’s Studies must complete the following requirements. A total of 18 credits is required for the minor, of which 9 must be upper division.

1. Complete these required courses:
   - WS A200  Introduction to Women’s & Gender Studies  3
   - WS A400  Feminist Theory  3
   - WS A401  Seminar in Women's Studies (1-3)*  3

2. Complete 9 credits of pre-approved electives.
   Students must select electives from at least two different disciplines (as defined by prefix). At least one elective must be upper division (300 level or higher). Relevant courses not listed as approved electives may apply with the approval of Women’s Studies chair.
   - ANTH A270  Cross-Cultural Perspectives on Women (3)
   - CWLA A260G  Women’s Writing Workshop (3)
   - CWLA A461  Writing and Gender (3)
   - ENGL A403  Topics in Autobiography (3)**
   - ENGL A404  Topics in Women’s Literature (3)
   - HIST A381  American Women’s History to 1870 (3)
   - HIST A382  American Women’s History Since 1870 (3)
   - PSY A313  Psychology of Women (3)
   - SOC A242  An Introduction to Marriage, Family and Intimate Relationships (3)
   - SOC A342  Sexual, Marital and Family Lifestyles (3)
   - SOC A377  Men and Change (3)
   - SOC A352  Women and Social Action (3)
   - SOC A452  Violence in Intimate Relationships (3)
   - WS A401  Seminar in Women's Studies (1-3)*

*WS A401 must be taken as a 3-credit course to fulfill the core. It may be taken a second time with a change of subtitle as an elective.

**Counts for Women’s Studies minor only when focus is on Women’s Autobiography. Taught every other year with this focus.

Note: Other courses may apply to the minor with approval of Women’s Studies chair.

FACULTY
Tara Lampert, Instructor, AFTL1@uaa.alaska.edu
Kimberly Pace, Director, AJKJP@uaa.alaska.edu
COLLEGE OF BUSINESS AND PUBLIC POLICY

The College of Business and Public Policy serves Alaska and global communities primarily by training and educating the workforce and also promoting excellence in public, private, and nonprofit management and related business disciplines; providing professional assistance to public, private and nonprofit organizations; and conducting basic applied and pedagogical research.

The College of Business and Public Policy has six departments: (1) Accounting, (2) Business Administration, (3) Computer Information Systems, (4) Economics, (5) Logistics and (6) Public Administration. A certificate, an Associate of Applied Science, a Bachelor of Business Administration, a Bachelor of Arts in Economics, a Master of Business Administration, a Master of Public Administration, and a Master of Science in Global Supply Chain Management are offered by the College. The college operates the Small Business Development Center, Center for Economic Development, Center for Economic Education, Business Enterprise Institute, American Russian Center, and the Institute of Social and Economic Research. The Dean’s Executive Advisory Council includes over 10 top executives representing the leading employers in the state. Many local firms offer scholarships, internships, and job opportunities for College of Business and Public Policy students. The college has over 40 full-time faculty with graduate degrees from many of the best universities in the country and extensive business experience. The college maintains a small-school atmosphere with high academic standards. The baccalaureate, Master of Business Administration, and Master of Science in Global Supply Chain Management degree programs are accredited by the Association to AACSB International. The College of Business and Public Policy offers degree planning sheets that provide a suggested sequence for taking courses within the degree(s), and are not intended to take the place of the degree requirements listed in this catalog. These sheets are available in the CBPP Student Information Office (RH 309).

The College of Business and Public Policy embraces the university’s mission to serve Alaska and the global community (with specific focus on the North Pacific Rim) by providing business education; leading to associates, baccalaureate and graduate education; and research/outreach services. The college provides professional training through occupational endorsement and certificate programs in addition to degree programs. The college maintains an environment that values, promotes, develops, and fosters equal treatment of cultural and ethnic groups. Students are trained to meet the ethical, environmental, and moral challenges facing future business leaders. The programs are designed to advance critical thinking, and behavioral and communication skills. The faculty strives to stay abreast of advances in modern information technology for educating business students and we are committed to maintaining state-of-the-art computer laboratory facilities. We serve a student body that is diverse in terms of social and educational background, business experience, learning motives, and career ambitions. The college seeks to meet the needs of our constituents by staying current with emerging trends, by training and educating a competent work force in management and business related disciplines, and by providing pedagogical, basic and applied research, training and technical assistance.

ACCOUNTING

Edward & Cathryn Rasmuson Hall (RH), Room 309, (907) 786-4100 www.cbpp.ualaska.edu

The Department of Accounting offers two programs: an Associate of Applied Science (AAS) degree with a major in Accounting and the Bachelor of Business Administration (BBA) degree with a major in Accounting. The programs are designed to prepare students for a career in business, government, or other types of organizations. BBA graduates will generally pursue professional accounting careers while AAS graduates will be qualified for vocationally oriented accounting positions. The Department of Accounting is also committed to enhancing the lifelong learning opportunities for responsible citizenship and personal satisfaction where accounting and business dimensions are critical ingredients. The AAS degree in Accounting is available at UAA, Kenai Peninsula College, Kodiak, and Matanuska-Susitna College campuses.

ASSOCIATE OF APPLIED SCIENCE, ACCOUNTING

ADMISSION REQUIREMENTS

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, Academic Standards and Regulations.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science General Degree Requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses (36 credits) with a grade of C or better:
   ACCT A101 Principles of Financial Accounting I 3
   ACCT A102 Principles of Financial Accounting II 3
   ACCT A202 Principles of Managerial Accounting 3
   ACCT A210 Income Tax Preparation 3
   ACCT A222 Introduction to Computerized Accounting 3
   ACCT A225 Payroll Accounting 3
   ACCT A230 Workpaper Preparation and Presentation 3
   BA A151 Introduction to Business 3
   BAJUST A241 Business Law I 3
   CIS A110 Computer Concepts in Business 3
   ECON A201 Principles of Macroeconomics 3
   MATH A105 Intermediate Algebra 3
2. Complete 9 credits of electives. Students may choose any 9 course at the 100 level or above in ACCT, BA, CIS, CIOS, ECON, or LOG but may not use more than 6 credits from one discipline.
3. A total of 60 credits is required for the degree.

BACHELOR OF BUSINESS ADMINISTRATION, ACCOUNTING

ADMISSION REQUIREMENTS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

ADMISSION REQUIREMENTS TO UPPER DIVISION COURSES

1. Completion of at least 39-40 credits with a cumulative GPA of 2.25 or higher.
2. Completion of each of the following courses with a grade of C or better:
   ACCT A201 Principles of Financial Accounting 3
   ACCT A202 Principles of Managerial Accounting 3
   BA A273 Introduction to Statistics for Business and Economics 3
CIS A110  Computer Concepts in Business 3
Oral communication skills GER 3
ECON A201  Principles of Macroeconomics 3
ECON A202  Principles of Microeconomics 3
ENGL A111  Methods of Written Communication 3
ENGL A212  Technical Writing 3
MATH A107  College Algebra 4
MATH A172  Applied Finite Mathematics 3

3. Completion of any combination of at least 9 credits in the following General Education disciplinary areas:
   - Fine Arts
   - Humanities
   - Natural Sciences

Admission to Upper Division Status
BBA students in Accounting who do not meet the above standards may not take upper division courses in ACCT, BA, CIS, or LOG.

Other students who meet course prerequisites may take up to 15 upper division ACCT, BA, CIS and LOG courses without being formally admitted to a BBA program. All students must apply for admission to a BBA program before accumulating more than 15 such credits. Please contact the Student Information Office for assistance in applying for admission to upper division standing within the College of Business and Public Policy.

Conditional Admission to Upper Division Status
A student classified as being conditionally admitted to upper division status may take upper division ACCT, BA, CIS, and LOG courses for one semester only, while completing lower division deficiencies.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF BUSINESS AND PUBLIC POLICY

REQUIREMENTS FOR ACCOUNTING MAJORS

Students earning a BBA degree must complete at least 50 percent of their required business credits at the University of Alaska Anchorage. All ACCT, BA, CIS, ECON, LGOP, and LOG courses are considered business credits for the purpose of this requirement.

1. Complete the BBA core requirements:
   - The following courses must be completed with a C or better:
     - ACCT A201* Principles of Financial Accounting 3
     - ACCT A202 Principles of Managerial Accounting 3
     - BA A273 Business and Economics 3
     - CIS A110 Computer Concepts in Business 3
     - ECON A201 Principles of Macroeconomics 3
     - ECON A202 Principles of Microeconomics 3
     - ENGL A212 Technical Writing 3
     - MATH A107 College Algebra (4) or
     - MATH A172 Applied Finite Mathematics (3) 3-4
     - MATH A200 Calculus I (4) or
     - MATH A272 Applied Calculus (3) 3-4

   *The ACCT A101 and ACCT A102 sequence may be used to satisfy the ACCT A201 requirement for this degree.

   Note: Students who plan to attend graduate school are encouraged to take MATH A107 (College Algebra) and MATH A200-A201-A202 (Calculus) instead of MATH A172 and MATH A272.

2. Complete these upper division core courses with a C or better:
   - ACCT A316 Accounting Information Systems II 3
   - BA A300 Organizational Theory and Behavior 3
   - BA A325 Corporate Finance 3
   - BA A343 Principles of Marketing 3
   - BA A377 Operations Management 3
   - CIS A305 Managerial Presentations 3
   - BA A488 The Environment of Business 3

D. MAJOR REQUIREMENTS

1. Complete the following requirements with a C or better:
   - ACCT A216 Accounting Information Systems I 3
   - ACCT A301 Intermediate Accounting I 3
   - ACCT A302 Intermediate Accounting II 3
   - ACCT A310 Income Tax 3
   - ACCT A342 Managerial Cost Accounting 3
   - ACCT A452 Auditing (integrative capstone) 3
   - BA/JUST A241 Business Law I 3
   - Accounting electives* 6
   - Upper division ECON elective or BA A375 3

   *Approved Accounting electives (6 credits) must be selected from the following courses and passed with a C or better:
     - ACCT A401 Advanced Accounting (3)
     - ACCT A410 Advanced Income Tax (3)
     - ACCT A420 Fraud Examination (3)
     - ACCT A430 Governmental and Non-Profit Accounting (3)
     - ACCT A453 Internal Auditing (3)

2. A total of 120 credits is required for the degree, of which 45 credits must be upper division.

MINOR, ACCOUNTING*

Students who wish to minor in Accounting, must complete the following requirements. A total of 18 credits is required for the minor.

- ACCT A201 Principles of Financial Accounting 3
- ACCT A202 Principles of Managerial Accounting 3
- Upper division Accounting electives 12

*Not available to BBA Accounting majors.

FACULTY

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BUSINESS ADMINISTRATION

Edward & Cathryn Rasmuson Hall (RH), Room 309, (907) 786-4100
www.cbpp.uaa.alaska.edu

The Department of Business Administration offers a Certificate in Small Business Management at the Kenai campus; an AAS degree in General Business at the Kenai and Kodiak campuses; an AAS degree in Small Business Administration at the Anchorage, Kenai, and Mat-Su campuses; as well as a BBA degree in Economics, Finance, Global Logistics and Supply Chain Management, Management, and Marketing on the Anchorage campus. A Business Administration minor is also available on the Anchorage campus. These are professional programs designed to meet the challenges of a dynamic and changing business environment. Graduates in business find job opportunities in Alaska, throughout the United States and in many foreign countries.
The BBA in Finance prepares students for entry-level financial management jobs in corporations, nonprofit organizations and financial institutions; financial analyst with brokerage and money management firms; financial planning services; real estate professional, and financial consultants to small business. Furthermore, it prepares a student for graduate studies in finance.

Students will gain knowledge in the concepts of financial planning, analysis and management in a global context; the functions, structures, delivery systems, efficiency and performance of financial markets and institutions; the concepts, techniques and strategies of investment in financial and real assets; the creation of values for the stockbrokers, stakeholders and society; and the value of financial securities and the enterprise.

The BBA in Management prepares students for entry-level general management jobs in corporations, nonprofit organizations and government; personnel and benefits management; recruitment and career planning services; conflict resolution and arbitration; and management consulting to small business. Furthermore, it prepares a student for graduate studies in management.

Students will gain knowledge in the concepts of organizational theory, design and development in a global context; the study of human behaviors and interactions within an organization; the management of human resources of an organization; the negotiations, conflict resolutions and arbitrations; the formulation of strategies for the management of total organization in an ever-changing environment; and the value of ethics and social responsibility.

The BBA in Marketing prepares students for entry-level marketing jobs in corporations and retail organizations; promotion and advertising professionals purchasing and distribution professionals; market research and sales forecasting; and marketing consulting to small businesses. Furthermore, it prepares students for graduate studies in marketing.

Students will gain knowledge in the principles of marketing and its essential role in business and society; the process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods, and services in local, national and global markets; and designing, executing and analyzing marketing research for sales forecasting; through focused studies in consumer behavior, international marketing, retail, promotional and marketing management.

**UNDERGRADUATE CERTIFICATE, SMALL BUSINESS MANAGEMENT**

*Kenai Peninsula College (KPC)*
*156 College Dr. Soldotna, Alaska 99669, (907) 262-0300, www.kpc.alaska.edu*

The Small Business Management Certificate program is offered only at Kenai Peninsula College. Advising for this program is only available from the Business Faculty at Kenai Peninsula College. Please call (907) 262-0344 for more information.

Graduates of the UAA Small Business Management program will have the ability to:

1. Explain basic accounting reports, cash flow, and budgets;
2. Demonstrate basic supervision skills and identify important human behavioral traits;
3. Describe fundamental marketing functions and strategy, basic selling principles, and necessary interpersonal skills for customer relations;
4. List and explain economics terms and concepts from a macro and micro perspective;
5. Use computers for word processing and spreadsheets for data analysis;
6. Communicate ideas in a variety of modes; and
7. Identify the impact of business from ethical, legal, and social responsibility points of view.

**ADMISSION REQUIREMENTS**

Complete university admissions requirements for certificates found in Chapter 7 of this catalog.

**GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University requirements for certificates located at the beginning of this chapter.

1. Complete the following communication requirements:
   - ENGL A111 Methods of Written Communication (Required) 3
   - Select 3 credits from the following:
     - *ENGL A212 Technical Writing (Recommended) (3)
     - ENGL A211 Academic Writing About Literature (3)
     - ENGL A213 Writing in the Social and Natural Sciences (3)
   - ENGL A214 Persuasive Writing (3)
   - CIOS A260A Business Communications (3)

2. **Note - ENGL A212 is required for a UAA four-year degree in Business**
   - Complete the following major requirements:
     - BA A166 Small Business Management 3
     - BA A231 Fundamentals of Supervision 3
     - **ACCT A101 Principles of Financial Accounting I (3) or ACCT A120 Bookkeeping for Business I (Not offered at KPC) (3)**
     - **ACCT A201 Principles of Financial Accounting (Not offered at KPC) (3)**
     - **ACCT A102 Principles of Financial Accounting II (3)**
     - **ACCT A202 Principles of Managerial Accounting (3)**
     - **ACCT A222 Introduction to Computerized Accounting (3)**

3. **Students taking ACCT A101 & ACCT A102 cannot use ACCT A201 for credit toward certificate.**
   - Complete 9 credits from the following departments:
     - ACCT, BA, CIOS, CIS, ECON
     - ECON A201 Principles of Macroeconomics (3) *(Recommended)*
     - ECON A202 Principles of Microeconomics (3) *(Recommended)*
     - CIOS A101 (A, B or C) Keyboarding *(Recommended) (1-3)*

4. Complete 3 elective credits.
5. A total of 30 credits is required for the certificate.

**FACULTY**

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Ray Zagorski, Associate Professor Business Administration, ifrz@uaa.alaska.edu

**ASSOCIATE OF APPLIED SCIENCE, GENERAL BUSINESS**

*Kenai Peninsula College (KPC)*
*156 College Dr. Soldotna, Alaska, 99669, (907) 262-0300, www.kpc.alaska.edu*

This is a flexible two-year degree program providing a solid business foundation and preparation for career advancement. It prepares graduates to apply principles and skills relating to accounting, management, marketing, finance, economics, and business law to businesses of all sizes. Graduates will be able to practice relevant
business skills, meet the diverse needs of a business to achieve organizational goals, start and manage their own small business, and communicate effectively and manage their business affairs with professionalism, integrity, and a spirit of inquiry.

The General Business program is offered only at Kenai Peninsula College and Kodiak College. Advising for Kenai Peninsula College students is available from the Business faculty at Kenai Peninsula College. Please call (907) 262-0359 for more information.

The graduates of the UAA General Business program will have the ability to:
1. Apply the principles and skills relating to accounting, management, marketing, finance, economics and business law to businesses of all sizes;
2. Practice the business skills relevant to the specific company or industry of their present or future employment;
3. Manage or supervise specialists with consideration for all aspects of business;
4. Integrate the diverse needs of a business to achieve organizational goals;
5. Start and manage their own small businesses;
6. Communicate effectively orally and in writing;
7. Effectively deal with subordinates, superiors, customers, and other stakeholders in professional matters; and
8. Manage their business affairs with professionalism, integrity, and a spirit of inquiry.

ADMISSION REQUIREMENTS
Complete university admissions requirements for associate degrees found in Chapter 7 of this catalog.

GENERAL UNIVERSITY REQUIREMENTS
1. Complete the General University and the General Course Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science General Degree Requirements (15 credits) located at the beginning of this chapter.
   Of the courses needed to satisfy the General Requirements, one MUST be MATH A105 or higher.

COMMUNICATION AND GENERAL REQUIREMENTS
Oral Communications Courses
Select 3 credits from the following:
- COMM A111 Fundamentals of Oral Communication (3)
- COMM A235 Small Group Communication (3)
- COMM A237 Interpersonal Communication (3)
- COMM A241 Public Speaking (3)

Written Communication Courses
Select 6 credits from the following:
- ENGL A111 Methods of Written Communication (required) (3)
- ENGL A212 Technical Writing (3)
- ENGL A211 Academic Writing About Literature (3)
- ENGL A213 Writing in the Academic Disciplines (3)
- CIOS A260A Business Communications (3)

Humanities* Social Sciences, Mathematics, Natural Sciences
Select 6 credits from approved general requirement courses:
- MATH A105 Intermediate Algebra or higher level (required) (3)
   and 3 more credits from an approved course

*Note: Any English courses used to satisfy humanities General Requirements must be different from the written communications requirement and have a course number higher than ENGL A111.

MAJOR REQUIREMENT COURSES
1. Complete the following required courses:
   - ACCT A101 Principles of Financial Accounting I 3
   - ACCT A102 Principles of Financial Accounting II 3
   - ACCT A202 Principles of Managerial Accounting 3
   - BA A151 Introduction to Business 3
   - BA A231 Fundamentals of Supervision 3
   - BA/JUST A241 Business Law I 3
   - BA A260 Marketing Practices 3
   - BA A264 Personal Selling 3
   - CIS A110 Computer Concepts in Business 3
   - ECON A201 Principles of Macroeconomics 3

2. Major elective courses: 6 credits
   Advisor approved courses from the following programs:
   - ACCT, BA, CIS, CS, ECON

3. Electives: 9 credits

4. A total of 60 credits is required for the degree.

FACULTY
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Steve Gillon, Assistant Professor Business Administration, WSGC@uaa.alaska.edu

ASSOCIATE OF APPLIED SCIENCE, SMALL BUSINESS ADMINISTRATION
ADMISSION REQUIREMENTS
Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, Academic Standards and Regulations.

GENERAL UNIVERSITY REQUIREMENTS
1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science General Degree Requirements (15 credits) located at the beginning of this chapter. To provide maximum transferability, it is recommended that students consider the Bachelor of Business Administration General Education Requirements and business core requirements when selecting courses to fulfill the Associate of Applied Science general requirements.

MAJOR REQUIREMENTS
1. Complete the required support courses:
   - ACCT A101 Principles of Financial Accounting I (3) 3-6
   and
   - ACCT A102 Principles of Financial Accounting II (3) or
   - ACCT A201 Principles of Managerial Accounting 3
   - ACCT A202 Principles of Managerial Accounting 3
   - CIS A110 Computer Concepts in Business 3
   - MATH A105 Intermediate Algebra (3) 3-4
   or
   - MATH A107 College Algebra (4) or
   - MATH A172 Applied Finite Mathematics (3)

Note: MATH A105 will not satisfy the quantitative skills General Education Requirement for the baccalaureate degree.

2. Complete the required BA core courses:
   - BA A151 Introduction to Business 3
   - BA A166 Small Business Management 3
   - BA A231 Fundamentals of Supervision 3
   - BA A233 Survey of Finance 3
BACHELOR OF BUSINESS ADMINISTRATION

Major areas: Economics, Finance, Global Logistics and Supply Chain Management, Management, and Marketing

The Bachelor of Business Administration (BBA) is a professional degree offered through the College of Business and Public Policy. It is designed to prepare students to pursue meaningful and rewarding careers in management. The curriculum for the BBA degree is management-oriented rather than highly specialized. Concepts that are relevant to both small and large firms and both the public and private sectors are emphasized.

The five majors — Economics, Finance, Global Logistics and Supply Chain Management, Management, and Marketing are designed to prepare students to pursue careers in the private and public sectors. Local, state, national, and international firms, and not-for-profit organizations provide a ready market for graduates in each of these five major areas of concentration.

ADMISSION REQUIREMENTS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

ADMISSION REQUIREMENTS TO UPPER DIVISION COURSES

1. Completion of at least 39-40 credits with a cumulative GPA of 2.25 or higher.
2. Completion of each of the following courses with a grade of C or better:
   - ACCT A201 Principles of Financial Accounting 3
   - ACCT A202 Principles of Managerial Accounting 3
   - BA A273 Introduction to Statistics for Business and Economics 3
   - CIS A110 Computer Concepts in Business 3
   - ECON A201 Principles of Macroeconomics 3
   - ECON A202 Principles of Microeconomics 3
   - ENGL A111 Methods of Written Communication 3
   - ENGL A212 Technical Writing 3
   - MATH A107 College Algebra 4

   or
   - MATH A122 Applied Finite Mathematics 3
   - Oral Communication Skills GER 3

3. Completion of any combination of at least 9 credits in the following General Education disciplinary areas:
   - Fine Arts
   - Humanities
   - Natural Sciences

Admission to Upper Division Status

BBA students in Economics, Finance, Global Logistics and Supply Chain Management, Management, and Marketing who do not meet the above standards may not take upper division courses in ACCT, BA, CIS, or LOG.

Other students who meet course prerequisites may take up to 15 upper division ACCT, BA, CIS, and LOG credits without being formally admitted to a BBA program. All students must apply for admission to a BBA program before accumulating more than 15 such credits. Please contact the Student Information Office for assistance in applying for admission to upper division standing within the College of Business and Public Policy.

Conditional Admission to Upper Division Status

A student classified as being conditionally admitted to upper division status may take upper division ACCT, BA, CIS, and LOG courses for one semester only, while completing lower division requirements.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF BUSINESS AND PUBLIC POLICY REQUIREMENTS

Economics, Finance, Management, Global Logistics and Supply Chain Management and Marketing Majors

Students earning a BBA degree must complete at least 50 percent of their required business credits at the University of Alaska Anchorage. All ACCT, BA, CIS, ECON, LGOP and LOG courses are considered business credits for the purpose of this requirement.

1. Complete the Business core requirements. The following courses must be completed with a C or better:
   - ACCT A201 Principles of Financial Accounting 3
   - ACCT A202 Principles of Managerial Accounting 3
   - BA/JUST A241 Business Law I 3
   - BA A273 Introduction to Statistics for Business and Economics 3
   - CIS A110 Computer Concepts in Business 3
   - ECON A201 Principles of Macroeconomics 3
   - ECON A202 Principles of Microeconomics 3
   - ENGL A212 Technical Writing 3
   - MATH A107 College Algebra (4) 3
   - MATH A172 Applied Finite Mathematics (3) 3
   - MATH A200 Calculus I (4) 3
   - MATH A272 Applied Calculus (3) 3

   *The ACCT A101 and A102 sequence may be used to satisfy the ACCT A201 requirement for this degree.*
D. MAJOR REQUIREMENTS

Economics Major
1. Complete the following requirements. The following courses must be completed with a C or better prior to graduating:

   - ECON A321 Intermediate Microeconomics (3)
   - ECON A324 Intermediate Macroeconomics (3)
   - ECON A429 Business Forecasting (3)
   - ECON A492 Seminar in Economic Research (3)
   - Upper division Economics electives* (12)

   *Note: No more than a total of 6 credits earned in an independent study, or ECON A454, Economics Internship, may be used to satisfy requirements for the major (6 credits of independent study or 3 credits of independent study and 3 credits of ECON A454).

2. A total of 120 credits is required for the degree, of which a minimum of 48 credits must be upper division.

Finance Major
All courses must be completed with a C or better prior to graduating.

1. Investment Concentration (30 credits)
   A. Complete the following:
      - BA A242 Business Law II (3)
      - BA A375 Statistics for Business and Economics (3)
      - or ECON A429 Business Forecasting (3)
      - BA A385 Advanced Corporate Finance (3)
      - BA A380 Investment Management (3)
   B. Complete at least 12 credits from the following: (12-18)
      - BA A426 Financial Institutions (3)
      - BA A427 International Finance (3)
      - BA A451 Advanced Investment Strategies (3)
      - BA A452 Financial Derivatives (3)
      - BA A453 Bond Market Analysis (3)
      - BA A491A Student Managed Portfolio (3)
   C. Complete 0 to 6 credits upper division business electives

2. Real Estate and Property Management Concentration (30 credits)
   A. Complete the following:
      - BA A131 Personal Finance (3)
      - BA A242 Business Law II (3)
      - BA A306 Real Estate Principles (3)
      - BA A315 Property Management and Marketing (3)
      - BA A320 Real Estate Finance (3)
   B. Complete at least 9 credits from the following: (9-15)
      - BA A385 Advanced Corporate Finance (3)
      - BA A395 Internship in Property Management (3)
      - BA A426 Financial Institutions (3)
      - BA A431 Real Estate Appraisal (3)
      - BA A432 Real Estate Law (3)

C. Complete 0 to 6 credits upper division business electives

3. A total of 120 credits is required for the degree, of which a minimum of 48 credits must be upper division.

Global Logistics and Supply Chain Management Major
1. Complete the following requirements. The following courses must be completed with a grade of C or better prior to graduating:

   - LOG A378 Foundations of Logistics and Supply Chain Management (3)
   - LOG A379 Transportation Management (3)
   - LOG A415 Purchasing Management (3)
   - LOG A416 International Logistics and Transportation Management (3)
   - LOG A417 Materials Management (3)

2. Complete LOG A495 Internship in Global Logistics and Supply Chain Management* (3)

   *The internship is intended to be in logistics and/or supply chain management. This requirement may be waived if the major advisor determines that the student already has significant logistics work experience. If waived, the student will need to select 3 additional upper division credits to total 48.

3. Complete 9 credits of upper division program electives approved by the student’s advisor with a grade of C or better. These may include, but are not limited to the following:

   - ACCT A342 Managerial Cost Accounting (3)
   - AT A332 Transport Aircraft Systems (3)
   - AT A420 Air Transportation System (3)
   - BA A420 Marketing Research (3)
   - BA A375 Statistics for Business and Economics (3)
   - BA A447 International Marketing (3)
   - BA A490 International Comparative Management (3)
   - CIS A310 Analysis of Business Systems (3)
   - CIS A330 Database Management Systems (3)
   - CIS A410 Project Management (3)
   - CIS A489 Systems Design, Development and Implementation (3)
   - ECON A363 International Economics (3)
   - ECON A429 Business Forecasting (3)

4. A total of 120 credits is required for the degree, of which a minimum of 48 credits must be upper division.

Management Major
1. Complete the following requirements. The following courses must be completed with a C or better prior to graduating:

   - BA A361 Human Resource Management (3)
   - BA A461 Negotiations and Conflict Management (3)
   - BA A462 Strategic Management (3)
   - BA A481 Applications in Management (3)
   - BA A489 Entrepreneurship and New Business Planning (3)

   Upper division electives in ACCT, BA, CIS, ECON, or LOG (12)

2. A total of 120 credits is required for the degree, of which a minimum of 48 credits must be upper division.

Marketing Major
1. Complete the following requirements. The following courses must be completed with a C or better prior to graduating:

   - BA A264 Personal Selling (3)
   - BA A381 Consumer Behavior (3)
   - BA A420 Marketing Research (3)
BA A460  Marketing Management 3
BA A375  Statistics for Business and Economics (3) 3
ECON A429  Business Forecasting (3)

2. The following courses must be completed with a C or better prior to graduating:
   Upper division Business electives recommended:
   BA A447  International Marketing (3)
   BA A463  Promotion Management (3)
   A total of 120 credits is required for the degree, of which a minimum of 48 credits must be upper division.

MINOR, BUSINESS ADMINISTRATION *

Students majoring in another subject who wish to minor in Business Administration must complete the following requirements. A total of 21 credits is required for the minor. Prerequisites for these courses must also be satisfied.

ACCT A201  Principles of Financial Accounting 3
ACCT A202  Principles of Managerial Accounting 3
ECON A201  Principles of Macroeconomics 3
ECON A202  Principles of Microeconomics 3
Upper division Business electives 9

* Not available to BBA majors.

MINOR, REAL ESTATE *

Students majoring in another subject who wish to minor in Real Estate must complete the following requirements. All courses must be completed with a C or better. Students pursuing a baccalaureate degree outside the College of Business and Public Policy should see the departmental advisor.

A. Complete the following:
   BA A131  Personal Finance 3
   BA A241  Business Law I 3
   BA A242  Business Law II 3
   BA A306  Real Estate Principles 3
   BA A320  Real Estate Finance 3

B. Complete 6 credits from the following:
   BA A315  Property Management and Marketing (3)
   BA A395  Internship in Property Management (3)
   BA A426  Financial Institutions (3)
   BA A431  Real Estate Appraisal (3)
   BA A432  Real Estate Law (3)

* Not available to BBA Finance majors.

FACULTY
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COMPUTER INFORMATION SYSTEMS

The College of Business and Public Policy prepares students for computer careers in computer programming and systems design, network administration and database administration through our Associate of Applied Science in Business Computer Information Systems (BCIS). Students are prepared for computer careers in systems analysis and design, web design, end-user computing, managing information systems, databases and networks, and associated occupations through the Management Information Systems (MIS) major in the Bachelor of Business Administration. Both degrees are based on the Association of Information Technology Professionals (AITP) model curriculum and are linked so that the diligent student can move from the two-year to four-year degree without losing credits.

Both degrees emphasize using computers within business and public sector settings through hands-on teaching methods. The student is prepared for the technical and security aspects of the computer environment as well as the techniques and issues of managing information resources through the introduction of the theories followed by hands-on experience with the associated application.

Computer career education in the College of Business and Public Policy is enhanced by work and internship opportunities both within our own laboratories and with business and government facilities.

ASSOCIATE OF APPLIED SCIENCE, BUSINESS COMPUTER INFORMATION SYSTEMS

Satisfy the Admission to Certificate and Associate Degree Program Requirements in Chapter 7, Academic Standards and Regulations.

English and math placement tests are given by the Advising and Testing Center. Your faculty advisor will assist you by recommending the proper levels of entry and appropriate CIS course plan. Students who
are not proficient in typing (a minimum of 30 words per minute) should enroll in CIOS A100A Keyboarding 1A. Students must be able to read and comprehend technical manuals and texts.

**ACADEMIC PROGRESS**

A grade of C or higher is required to continue in each higher CIS course. To take upper division Information Systems program courses, students must complete lower division degree requirements and apply for upper division standing.

**GENERAL UNIVERSITY REQUIREMENTS**

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science General Degree Requirements (15 credits) located at the beginning of this chapter. ENGL A212 is recommended. For the general requirements, it is strongly recommended that students select 6 credits from humanities, math and natural sciences or social sciences that meet both the AAS and the baccalaureate General Education Requirements.

**MAJOR REQUIREMENTS**

1. Complete the breadth requirements:
   - ACCT A201* Principles of Financial Accounting 3
   - ACCT A202 Principles of Managerial Accounting 3
   - CIS A110 Computer Concepts in Business 3
   - ECON A201 Principles of Microeconomics 3
   - ECON A202 Principles of Microeconomics 3
   - MATH A107 College Algebra (4) or
   - MATH A172 Applied Finite Mathematics (3) 3-4
   - General Education Requirement elective** 3
   
   *The ACCT A101 and A102 sequence may be used to satisfy the ACCT A201 requirement for this degree.
   
   **Choose humanities or natural sciences course that meets both AAS and General Education Requirements for baccalaureate degrees.
2. Complete the Business core requirement:
   - BA A273 Introduction to Statistics for Business and Economics 3
3. Complete CIS required courses:
   - CIS A185 Introduction to Programming Business Applications 3
   - CIS A201 Programming Business Applications 4
   - CIS A310 Analysis of Business Systems 3
   - CIS A330 Database Management Systems 3
   - CIS A345 Managing Data Communications and Computer Networks 3
4. Complete elective credits approved by a CIS Department advisor. 6
5. A minimum of 12 credits from Major Requirements, items 3 and 4 above, must be earned at the University of Alaska Anchorage.
6. A total of 61-62 credits is required for the degree.

**ADMISSION REQUIREMENTS TO UPPER DIVISION COURSES**

1. Completion of at least 39-40 credits with a cumulative GPA of 2.25 or higher.
2. Completion of each of the following courses with a grade of C or better:
   - ACCT A201 Principles of Financial Accounting 3
   - ACCT A202 Principles of Managerial Accounting 3
   - BA A273 Introduction to Statistics for Business and Economics 3
   - CIS A110 Computer Concepts in Business 3
   - ECON A201 Principles of Microeconomics 3
   - ECON A202 Principles of Microeconomics 3
   - ENGL A111 Methods of Written Communication 3
   - ENGL A212 Technical Writing 3
   - MATH A107 College Algebra 4
   - MATH A172 Applied Finite Mathematics 3
   - Oral Communication Skills GER 3
3. Completion of any combination of at least 9 credits in the following General Education disciplinary areas:
   - 3 Fine Arts
   - 3 Humanities
   - 3 Natural Sciences

**Admission to Upper Division Status**

BBA students in Management Information Systems who do not meet the above standards may not take upper division courses in ACCT, BA, CIS or LOG.

Other students who meet course prerequisites may take up to 15 upper division ACCT, BA, CIS, and LOG credits without being formally admitted to a BBA program. All students must apply for admission to a BBA program before accumulating more than 15 such credits. Please contact the Student Information Office for assistance in applying for admission to upper division standing within the College of Business and Public Policy.

**Conditional Admission to Upper Division Status**

A student classified as being conditionally admitted to upper division status may take upper division ACCT, BA, CIS and LOG courses for one semester only, while completing lower division deficiencies.

**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

A. **GENERAL UNIVERSITY REQUIREMENTS**

   Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

B. **GENERAL EDUCATION REQUIREMENTS**

   Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. **COLLEGE OF BUSINESS AND PUBLIC POLICY REQUIREMENTS: MANAGEMENT INFORMATION SYSTEMS MAJOR**

   Students earning a BBA degree must complete at least 50 percent of their required business credits at the University of Alaska Anchorage. All ACCT, BA, CIS, ECON, LGOP, and LOG courses are considered business credits for the purpose of this requirement.

   1. Complete the Business core requirements with a grade of C or better:
      - ACCT A201 Principles of Financial Accounting 3
      - ACCT A202 Principles of Managerial Accounting 3
      - BA A273 Introduction to Statistics for Business and Economics 3
      - CIS A110 Computer Concepts in Business 3
      - ECON A201 Principles of Microeconomics 3
      - ECON A202 Principles of Microeconomics 3

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D. MAJOR REQUIREMENTS

1. Complete the following required courses with a grade of C or better:
   - CIS A185 Introduction to Programming
   - CIS A201 Programming Business Applications
   - CIS A310 Analysis of Business Systems
   - CIS A330 Database Management Systems
   - CIS A345 Managing Data Communication and Computer Networks
   - CIS A410 Project Management
   - CIS A489 Systems Design, Development and Implementation
   - CIS A498* Management Information Systems

2. Complete the following requirements. The following courses must be completed with a grade of C or better prior to graduating:
   - BA A300 Organizational Theory and Behavior
   - BA A325 Corporate Finance
   - BA A343 Principles of Marketing
   - BA A377 Operations Management
   - BA A488 The Environment of Business
   - CIS A305 Managerial Presentations
   - CIS A376 Management Information Systems

*The ACCT A101 and AACT A102 sequence may be used to satisfy the ACCT A201 requirement for this degree.

Note: Students who plan to attend graduate school are encouraged to take MATH A107 (College Algebra) and MATH A200-201-202 (Calculus) instead of MATH A172 and MATH A272.

2. Complete the following requirements. The following courses must be completed with a grade of C or better prior to graduating:
   - CIS A421 Multimedia Authoring
   - CIS A430 Client-Server Programming for Business Applications
   - CIS A445 Advanced Network Management
   - CIS A460 Web Development in the .Net Environment
   - CIS A495 Systems Analyst/User Support Internship
   - CIS A498 Individual Research Project
   - CIS A498* Management Information Systems (Integrative Capstone)

2. Complete the following requirements. The following courses must be completed with a grade of C or better prior to graduating:
   - CIS A110 Computer Concepts in Business
   - CIS A185 Introduction to Programming
   - CIS A330 Database Management Systems
   - CIS A376 Management Information Systems

CIS A498* Management Information Systems (Integrative Capstone)

Upper division CIS electives** 6

*Not available to BBA Management Information Systems majors.

**BBA degree students must take CIS A310, and 3 credits of upper division CIS electives instead of CIS A376 and CIS A305 to meet the requirements for the minor (CIS A376 and CIS A305 are already required in the business core).

All students pursuing a minor in CIS must apply to the College of Business and Public Policy for upper division standing prior to taking any upper division course in CIS. Students pursuing a baccalaureate degree outside the College of Business and Public Policy with a minor in CIS can establish upper division standing by going to the College of Business and Public Policy Student Information Office and certifying they have completed at least 54 credits in their degree program and have completed General Education Requirements of 6 credits of written communications, 3 credits of oral communication, 3 credits of college algebra (MATH A107 or MATH A172 or equivalent), and 12 credits in GER courses in fine arts, humanities, social sciences, or natural sciences.

MINOR, COMPUTER INFORMATION SYSTEMS*

Students majoring in another subject who wish to minor in Computer Information Systems (CIS) must complete the following requirements. A total of 18 credits is required for the minor, 12 of which must be upper division.

- CIS A110 Computer Concepts in Business
- CIS A185 Introduction to Programming
- CIS A330 Database Management Systems
- CIS A376 Management Information Systems

Upper division CIS electives** 6

*Not available to BBA Management Information Systems majors.

**BBA degree students must take CIS A310, and 3 credits of upper division CIS electives instead of CIS A376 and CIS A305 to meet the requirements for the minor (CIS A376 and CIS A305 are already required in the business core).

All students pursuing a minor in CIS must apply to the College of Business and Public Policy for upper division standing prior to taking any upper division course in CIS. Students pursuing a baccalaureate degree outside the College of Business and Public Policy with a minor in CIS can establish upper division standing by going to the College of Business and Public Policy Student Information Office and certifying they have completed at least 54 credits in their degree program and have completed General Education Requirements of 6 credits of written communications, 3 credits of oral communication, 3 credits of college algebra (MATH A107 or MATH A172 or equivalent), and 12 credits in GER courses in fine arts, humanities, social sciences, or natural sciences.

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ECONOMICS

Edward & Cathryn Rasmuson Hall (RH), Room 309, (907) 786-4100
www.cbpp.uaa.alaska.edu/economics.asp

Economics provides students with a systematic way of understanding activity in the world around them. Economics is a social science which studies how individuals, organizations, and governments make choices about the use of resources. A degree in Economics gives students career opportunities in many fields and provides excellent preparation for those who wish to pursue advanced study in a variety of disciplines. The Economics Department offers courses for both degree and non-degree-seeking students at the undergraduate and graduate levels. Students who wish to major in Economics may choose either the Bachelor of Arts or Bachelor of Business Administration degree. A minor in Economics is also offered.

HONORS IN ECONOMICS

Students majoring in Economics are eligible to graduate with departmental honors if they satisfy all of the following requirements:

1. Meet requirements for BA or BBA in Economics.
2. Maintain a GPA of 3.50 in their major requirements.
3. Complete ECON A492 Seminar in Economic Research with a grade of A, or complete a research paper with a grade of A which demonstrates independent economic research in a semester-length independent study course.
4. Receive an honors score on a comprehensive examination for Economics majors.
5. Students not meeting all these requirements may be awarded honors through a vote of the faculty.

BACHELOR OF ARTS, ECONOMICS

ADMISSION REQUIREMENTS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. MAJOR REQUIREMENTS

1. Complete the following required courses with a grade of C or better:
   - BA A273 Introduction to Statistics for Business and Economics 3
   - ECON A201 Principles of Macroeconomics 3
   - ECON A202 Principles of Microeconomics 3
   - ECON A321 Intermediate Microeconomics 3
   - ECON A324 Intermediate Macroeconomics 3
   - ECON A412 Econometrics 3
   - ECON A492 Seminar in Economic Research 3
   - MATH A200 Calculus I (4) 3-4
     or
   - MATH A272 Applied Calculus (3) 3
   - ECON A201 Principles of Macroeconomics 3
   - ECON A202 Principles of Microeconomics 3
   - ECON A312 Intermediate Microeconomics 3
   - ECON A324 Intermediate Macroeconomics 3
   - ECON A412 Econometrics 3
   - ECON A492 Seminar in Economic Research 3
   - MATH A200 Calculus I (4) 3-4
     or
   - MATH A272 Applied Calculus (3) 3

   Upper division Economics electives 12

   *Note: No more than a total of 6 credits earned in an independent study, or ECON A454, Economics Internship, may be used to satisfy requirements for the major (6 credits of independent study or 3 credits of independent study and 3 credits of ECON A454).

   Note: Math skills are important in the study of economics. For this reason majors are to complete their math requirements early in their program. Students planning on graduate school are advised to take the entire calculus sequence (MATH A200, MATH A201, MATH A202).

2. Students must complete at least 12 credits of their Economics courses in residence at UAA.

3. A total of 120 credits is required for the degree, of which 48 credits must be upper division.

MINOR, ECONOMICS*

Students majoring in another subject who wish to minor in Economics must complete the following requirements. A total of 18 credits is required for the minor, 12 of which must be upper division.

   - ECON A201 Principles of Macroeconomics 3
   - ECON A202 Principles of Microeconomics 3
   - Upper division Economics electives 12

* Not available to BA and BBA Economics majors.

FACULTY

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LOGISTICS

Edward & Cathryn Rasmuson Hall (RH) Room 309, (907) 786-4100
www.cbpp.uaa.alaska.edu

The Logistics Department offers four undergraduate programs: the Occupational Endorsement Certificate in Logistics and Supply Chain Operations, the Undergraduate Certificate in Logistics and Supply Chain Operations, the Associate of Applied Science in Logistics and Supply Chain Operations, and a major in Global Logistics and Supply Chain Management for the Bachelor of Business Administration.

Logistics refers to the complex systems of the movement of material, component parts, and information within a business firm; and the distribution of final products to customers. Logistics and supply chain management are an essential function that adds value to the final product. The goal of logistics and supply chain management is timely delivery, competitive pricing, mobility and flexibility, together with innovative transportation services. Today competitive advantages in global markets exceed the realm of manufacturing. Companies that master information technology and logistics are setting global standards for overall supply chain performance. Firms with a virtual worldwide logistics system view that carries out dynamic and continuous distribution are gaining the competitive edge.

Every organization is engaged in logistics if it has a purchasing function and/or a delivery process. Prospective employers include business firms, nonprofit organizations, and government agencies.

Anchorage and Alaska are strategically located relative to the great markets of Europe, Asia, and the mainland United States. More freight in tonnage passes through the Ted Stevens Anchorage International Airport on a daily basis than in any other airport in the United States. Truck and marine transportation is crucial to supplying Alaska with goods. The state owns a railroad, and pipelines move oil and other fuels. The military establishment of Alaska is located here largely because of the logistical advantages obtained from Alaska’s strategic location. Effective development of the logistics sector depends on the availability of a labor force that understands and can manage logistics systems.

OCCUPATIONAL ENDORSEMENT CERTIFICATE, LOGISTICS AND SUPPLY CHAIN OPERATIONS

The Occupational Endorsement Certificate in Logistics and Supply Chain Operations, which is awarded by the Logistics Department, is designed to provide a comprehensive foundation for students who want to initiate or develop a career path in logistics and supply chain operations without having to commit to lengthier educational programs. All 15 credits earned toward the occupational endorsement certificate are transferable to both the Undergraduate Certificate in Logistics and Supply Chain Operations and the Associate of Applied Science degree in Logistics and Supply Chain Operations.
At the completion of an Occupational Endorsement Certificate in Logistics and Supply Chain Operations, students are able to demonstrate:

1. Proficiency in adapting to a variety of logistics employment settings with an understanding of the common terminology, equipment, regulations, and information systems used.
2. Entry-level employability skills in the following areas: logistics operations, logistics customer service, purchasing, supply chain operations, warehouse operations, inventory control, transportation services, and transport operations management.

**ADMISSION REQUIREMENTS**

See Occupational Endorsement Certificate admissions in Chapter 7 of this catalog.

**GRADUATION REQUIREMENTS**

Students must achieve a grade of C or better in all courses required for the certificate.

**MAJOR REQUIREMENTS**

1. See General University Requirements for Occupational Endorsement Certificates at the beginning of this chapter.
2. Complete the following courses:
   - LGOP A110 Logistics, Information Systems and Customer Service 3
   - LGOP A120 Warehouse and Inventory Control Operations 3
   - LGOP A125 Transportation Services 3
   - LGOP A160 Purchasing and Supply Management 3
   - LGOP A235 Transport Operations Management 3

**UNDERGRADUATE CERTIFICATE, LOGISTICS AND SUPPLY CHAIN OPERATIONS**

The Certificate in Logistics and Supply Chain Operations program enables students to enhance and develop their understanding and skills in the fields of logistics and supply chain operations. It is designed to provide continuing education opportunities to professionals in the business community.

**ADMISSION REQUIREMENTS**

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, Academic Standards and Regulations.

**GRADUATION REQUIREMENTS**

Students must achieve a grade of C or better in all courses required for the certificate.

**MAJOR REQUIREMENTS**

1. Complete the following courses:
   - BA A151 Introduction to Business 3
   - BA A231 Fundamentals of Supervision 3
   - CIS A105 Introduction to Personal Computers and Application Software (3) 3
   - LGOP A110 Logistics, Information Systems and Customer Service 3
   - LGOP A120 Warehouse and Inventory Control Systems 3
   - LGOP A125 Transportation Services 3
   - LGOP A160 Purchasing and Supply Management 3
   - LGOP A235 Transport Operations Management 3

2. Two electives at the 100-level or higher.* 6
3. A total of 30 credits is required for this certificate.

* If students intend to pursue the AAS in Logistics and Supply Chain Operations it is recommended that students use these elective credits to prepare for the written communications and math courses required for the AAS LGOP degree.

**ASSOCIATE OF APPLIED SCIENCE, LOGISTICS AND SUPPLY CHAIN OPERATIONS**

The Logistics and Supply Chain Operations associate's degree was developed with input from Alaskan business, industry, and military representatives to meet the needs in all aspects of the operational and technical career fields of logistics. Students will build a foundation of knowledge and skills for successful logistics and supply chain operations: information management and customer service, warehousing and inventory control, purchasing and supply chain operations, transportation services, transportation rates, tariffs, and carrier liability. The AAS degree is designed to prepare graduates for employment in all the operational and technical aspects of logistics and supply chain operations, careers, and fields. Students planning to go on to a four-year program in the College of Business and Public Policy should know that all ACCT, BA, CIS, ECON, LGOP, and LOG courses in those four-year programs must be completed with a grade of C or better.

**ADMISSION REQUIREMENTS**

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, Academic Standards and Regulations.

**GENERAL UNIVERSITY REQUIREMENTS**

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science General Degree Requirements (15 credits) located at the beginning of this chapter. To provide maximum transferability, it is recommended that students consider the Bachelor of Business Administration General Education Requirements, and business core requirements when selecting courses to fulfill the Associate of Applied Science General Requirements.

**MAJOR REQUIREMENTS**

1. Complete the following courses:
   - BA A151 Introduction to Business 3
   - BA A231 Fundamentals of Supervision 3
   - BA/JUST A241 Business Law I 3
   - CIS A110 Computer Concepts in Business 3
   - ECON A201 Principles of Macroeconomics 3
   - LGOP A110 Logistics, Information Systems and Customer Service 3
   - LGOP A120 Warehouse and Inventory Control Operations 3
   - LGOP A160 Purchasing and Supply Management 3
   - LGOP A125 Transportation Services 3
   - LGOP A235 Transport Operations Management 3
   - MATH A107 College Algebra (4) 3-4
   - MATH A172 Applied Finite Mathematics (3) 12
   - MATH A273 Introduction to Statistics for Business and Economics (3)
   - BA A295 Internship in Business Administration (3)
   - BA A377 Operations Management (3)
   - ECON A429 Business Forecasting (3)
   - Any 300- or 400-level LOG course (3)
   - OSH A101 Introduction to Occupational Safety and Health (3)
   - OSH A108 Injury Prevention and Risk Management (4)
   - OSH A250 Hazardous Material Operation (3)
   - TECH A295 Technical Internship (1-6)

   or

   - BA A151 Introduction to Business 3
   - BA A231 Fundamentals of Supervision 3
   - BA/JUST A241 Business Law I 3
   - CIS A110 Computer Concepts in Business 3
   - ECON A201 Principles of Macroeconomics 3
   - LGOP A110 Logistics, Information Systems and Customer Service 3
   - LGOP A120 Warehouse and Inventory Control Systems 3
   - LGOP A125 Transportation Services 3
   - LGOP A160 Purchasing and Supply Management 3
   - LGOP A235 Transport Operations Management 3

2. Complete four of the following courses:
   - BA A273 Introduction to Statistics for Business and Economics (3)
   - BA A295 Internship in Business Administration (3)
   - BA A377 Operations Management (3)
   - ECON A429 Business Forecasting (3)
   - Any 300- or 400-level LOG course (3)
   - OSH A101 Introduction to Occupational Safety and Health (3)
   - OSH A108 Injury Prevention and Risk Management (4)
   - OSH A250 Hazardous Material Operation (3)
   - TECH A295 Technical Internship (1-6)
TECH A302 Operational Safety (3)

3. A total of 60-61 credits is required for the degree.

BACHELOR OF BUSINESS ADMINISTRATION

The requirements for the Bachelor of Business Administration with a major in Global Logistics and Supply Chain Management are listed with the BBA located earlier in this chapter.

FACULTY

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COLLEGE OF EDUCATION

Professional Studies Building (PSB), Suite 209, (907) 786-4401
www.uaa.alaska.edu/coe

The University of Alaska Anchorage is in full compliance with the institutional reporting requirements mandated in Title II of the Higher Education Act Amendments of 1998. Please contact the College of Education for a copy of the completed report.

The College of Education comprises a community of educators dedicated to improving the quality of education. The mission of the College of Education is to prepare educators and support the lifelong learning of professionals to embrace diversity and to be intellectually and ethically strong, resilient, and passionate in their work with Alaska’s learners, families, educators, and communities. Our programs emphasize the power of learning to transform people’s lives. Across the university, faculty members teach professional educators to work in diverse settings, to form and sustain learning partnerships, and to provide learning across the life span. We are confident that this preparation will result in educators’ significant contributions to society.

The College of Education promotes the following core values in their collegial interactions to ensure that program graduates exhibit:

- **Intellectual Vitality**: Professional educators examine diverse perspectives, engage in research and scholarship, contribute to knowledge and practice, and apply innovations in technology.
- **Collaborative Spirit**: Professional educators generate, welcome, and support the collaborative relationships and partnerships that enrich people’s lives.
- **Inclusiveness and Equity**: Professional educators create and advocate for learning communities that advance knowledge and ensure the development, support, and inclusion of peoples’ abilities, values, ideas, languages, and expressions.
- **Leadership**: Professional educators are committed to the highest standards of ethical behavior in their roles, using professional expertise to improve the communities in which they live and work, and demonstrating the ability to translate theories and principles into transformative educational practice.

We believe that learning must be designed, delivered, and evaluated within the contexts of these core values and program outcomes.

The College of Education offers undergraduate and graduate curricula and programs designed to prepare personnel for various professional roles related to education in a variety of learning environments. The College of Education is accredited by the National Council for Accreditation of Teacher Education (NCATE). Our professional preparation programs are approved by the Alaska Department of Education and Early Development and are based on NCATE standards.

The Alaska Department of Education and Early Development issues certificates and endorsements under the “approved program” process for certification. The University of Alaska Anchorage recommends individuals to the commissioner of Education and Early Development for certification or endorsement after successful completion of one or more of the approved programs. Only the dean of the College of Education is authorized to recommend candidates for the appropriate certificate or endorsement.

In each of the college’s curricula and programs, students are introduced to fundamental issues of education in the contemporary world through courses designed to develop perspective and understanding of the relationship of education to society. Courses provide theory and practice in the development of instructional materials and an understanding of methods of instruction. Many courses and programs are offered through distance delivery methods. The college offers high-quality, distance-delivered coursework in order to improve access for rural students and provide flexible scheduling for practicing educators. Additionally, the college partners with UAA community campuses in optimizing the use of technology for distance delivery through intercampus collaboration.
Undergraduate Programs, College of Education

Individuals who desire a UAA degree or certificate, or Alaska State teacher certification or endorsement, must apply for admission to the University of Alaska Anchorage and to the College of Education. Students are formally admitted to an appropriate program on the basis of multiple criteria, including their ability to make a positive contribution to educational professions. Candidates who seek Alaska State licensure must successfully complete a College of Education "approved program," as well as any additional requirements that may be initiated by the Alaska Department of Education and Early Development. Only courses with a grade of C or higher will be applied to meet certification or endorsement requirements. In addition, candidates must demonstrate professional behaviors and dispositions consistent with the College of Education’s Conceptual Framework as well as abide by the UAA Student Code of Conduct and the Code of Ethics and Professional Teaching Standards adopted by the Alaska Professional Teaching Practices Commission. These documents are available on the College of Education website. Candidates should be advised that total credits may exceed minimums because of prerequisite requirements, knowledge and skill enhancement, individually selected majors and minors, and areas of specialization and/or emphasis.

The College of Education has three academic departments:

1. The Department of Teaching and Learning with programs in school-age care, early childhood education, elementary education, and secondary education. (907) 786-4481
2. The Department of Counseling and Special Education with programs in counselor education, special education, early childhood special education and opportunities in speech and language pathology. (907) 786-6317
3. The Department of Educational Leadership with programs in educational leadership (principal, superintendent, and teacher leadership preparation), (907) 786-4450

Undergraduate Program Options

The College of Education offers several program options for candidates interested in working with children.

- School Age Care Occupational Endorsement Certificate: Practitioner
- School Age Care Occupational Endorsement Certificate: Administrator
- Early Childhood Development Certificate
- Associate of Applied Science in Early Childhood Development
- Bachelor of Arts in Early Childhood Education*
- Bachelor of Arts in Elementary Education*
- Post-Baccalaureate Certificate in Elementary Education*
- Post-Baccalaureate Certificate in Early Childhood Pre-K-Third Grade*

*Programs fulfill Alaska Department of Education and Early Development teacher certification or endorsement requirements. Refer to Chapter 11 for information about post-baccalaureate programs.

High School Preparation

All programs in the College of Education build upon the candidates’ strong high school preparation in the following areas:

- English composition and writing
- Oral communication
- World languages
- Algebra
- Computer literacy
- Social sciences
- Natural sciences

Field Placements

All College of Education undergraduate programs require field experiences in school or agency settings.

Criminal History Background Clearance

The College of Education requires compliance with specific background clearance policies and procedures for candidates participating in university-sponsored fieldwork. There are two types of background clearances required. In general, Alaska Public Safety Information Network (APSIN), also known as an Interested Person Report (IRP), clearance is required for lecture courses that include a fieldwork component as part of the course. Courses that are primarily field-based, such as practica or internships, require fingerprinting and a national (FBI) criminal history background check. Various agencies and centers may have additional requirements. In some cases, criminal history background clearance is required for admission to a department or program.

Failure to comply with the College of Education background check requirements will result in denial of access to field placement settings. Failure to pass the criminal history background check will result in removal from the program. More information is located at http://coe.uaa.alaska.edu/background.cfm.

Cooperating School/Agency

Practica, internships, and other field placements are made only in cooperation with participating school districts and agencies. The school districts and agencies that work in cooperation with the College of Education reserve the right to request additional information and/or preparation from candidates, as determined by their established policies and practices. Cooperating districts and agencies also determine the number of available spaces and placements for candidates. Placements may become competitive if the number of applicants exceeds the number of spaces. Districts and agencies also reserve the right to refuse or terminate placements when candidates do not meet an acceptable standard of performance. Thus, while the university makes every effort to find appropriate field placements for candidates, admittance to a degree/certificate/endorsement program does not guarantee acceptance by cooperating school districts or agencies. Unacceptable academic performance, an unprofessional attitude, unsatisfactory field reports, violation of professional ethics, or other factors may result in removal from the field placement.

Transfer

Candidates who have taken all or part of an approved program at another university must take at least 9 credits of approved education courses at the University of Alaska prior to being admitted to an advanced practicum or internship.

Professional and Continuing Education (PACE)

http://coe.uaa.alaska.edu/pace

Quality professional learning enriches the knowledge and skills of educators and improves the educational experiences of all students. Therefore, the Office of Professional and Continuing Education (PACE) partners with UAA academic units, schools, professional societies, and other organizations to support learning opportunities such as 500-level courses and academies. The flexible structure of PACE allows for rapid response to the dynamic learning needs of educators and related-services professionals around the state.
SCHOOL-AGE CARE

The Department of Teaching and Learning offers two occupational endorsement certificates: School-Age Care: Practitioner and School-Age Care: Administrator. These certificates are designed to prepare individuals with the knowledge and skills to provide quality before-and-after school care for school-age children. The certificates fulfill the municipal requirements for a child development leader designation.

OCCUPATIONAL ENDORSEMENT CERTIFICATE,
SCHOOL-AGE CARE: PRACTITIONER

The School-Age Care: Practitioner Certificate provides students with the opportunity to develop dispositions, knowledge and skills necessary to provide high quality care for children in an out-of-school environment (before-and-after school programs). Out-of-school care is a growing element of the spectrum of child care and education available to today's families. School-age care programs offer recreation, creative arts, social development and community engagement to support the healthy growth of children as they move toward adolescence. Relationships with engaged, caring, culturally sensitive and responsive adults further support optimal child development in the school-age years.

STUDENT OUTCOMES

Upon completing this introductory program students will:

• Demonstrate emerging cultural competence
• Use child development knowledge to support individual children and plan programs
• Provide effective group management
• Exhibit professionalism
• Use effective communications techniques to create positive parent and community relations

This program draws upon best practices and standards established by the National Afterschool Association and the School-Age Care Environmental Rating Scale. Students completing this certificate will find employment in programs operated by school districts, nonprofit organizations, and summer camps. Active participation in a school-age care program as a staff member or a volunteer is integrated into each of the required 12 credits. Coursework includes child development, program planning, group leadership, parent and community relations, and professional conduct.

ADMISSION REQUIREMENTS

Satisfy the UAA admissions requirements for Occupational Endorsement Certificates found at the beginning of this chapter.

ACADEMIC PROGRESS

A grade of C or better in each required course with an overall GPA of 2.00 or better.

PROGRAM REQUIREMENTS

1. Satisfy the General University Requirements for Occupational Endorsement Certificates found at the beginning of this chapter.
2. Complete the following required courses:
   - EDSE A212 Human Development and Learning 3
   - EDSA A101 Program Management for School-Age Care 2
   - EDSA A102 Positive Learning Environments in School-Age Care 2
   - EDSA A202 School-Age Care Program Planning 3
   - EDSA A295A Practicum for School-Age Care 2
3. A total of 12 credits is required for this certificate.

OCCUPATIONAL ENDORSEMENT CERTIFICATE,
SCHOOL-AGE CARE: ADMINISTRATOR

The School-Age Care: Administrator Certificate provides students the opportunity to acquire leadership, advocacy, program development, and community relations skills. Students who earn this certificate will find employment as site supervisors, mid-level program managers and directors at camps, after-school programs and other youth development programs. Required courses are enhanced by practicum experiences that reinforce skills, knowledge, and leadership qualities.

STUDENT OUTCOMES

Upon completion, students will be able to:

• Demonstrate cultural competence with staff and community members
• Foster increasing community engagement
• Approach parents, staff and community with professionalism
• Use varied approaches to foster program development
• Enhance parent and community relations
• Employ sound administration and personnel management strategies

ADMISSION REQUIREMENTS

Satisfy the UAA admissions requirements for Occupational Endorsement Certificates found in chapter 7 of this catalog.

ACADEMIC PROGRESS

A grade of C or better in each required course with an overall GPA of 2.50 or better.

PROGRAM REQUIREMENTS

1. Satisfy the General University Requirements for Occupational Endorsement Certificates found at the beginning of this chapter.
2. Satisfy the prerequisite course requirement of EDSE A212 Human Development and Learning (or equivalent) with a grade of C or better.
3. Complete the following required courses:
   - EDEC A242 Family and Community Partnerships 3
   - EDSA A212 Program Development for School-Age Care 3
   - EDSA A234 Administration and Supervision for School-Age Care 3
   - EDSA A290 Special Topics in School-Age Care 2
   - EDSA A295B Advanced Practicum for School-Age Care 1
4. A total of 12 credits is required for this certificate.

EARLY CHILDHOOD

The Early Childhood program at UAA blends theory and practice in the preparation of early childhood educators who can deliver quality care and education for young children from birth through age eight years.

Within the Early Childhood program are four options:

• Early Childhood Development Certificate
• Associate of Applied Science in Early Childhood Development
• Bachelor of Arts in Early Childhood Education
• Post-Baccalaureate Certificate in Early Childhood Pre-K-Third Grade (Chapter 11)

PROGRAM DESCRIPTION AND OUTCOMES

The Early Childhood Development Certificate Program and the Associate of Applied Science in Early Childhood Development Program prepare paraeducators and other professionals to work in early care and education settings, including the public school system. The Bachelor of Arts in Early...
Childhood Education prepares professionals to work with young children from birth through age eight. The Post-Baccalaureate Certificate in Early Childhood Pre-K-Third Grade prepares professionals who already have baccalaureate degrees to work with young children from birth through eight years in preschool/primary school settings. Successful completion of either the Bachelor of Arts in Early Childhood Education or the Post-Baccalaureate Certificate in Early Childhood Pre-K-Third Grade program requirements leads to an institutional recommendation for initial teacher certification with an endorsement in Pre-K - 3rd Grade. All programs are developed to meet the National Association for the Education of Young Children guidelines for personnel preparation.

Student outcomes for the four early childhood programs are based on the Standards for Alaska’s Teachers located at [www.eed.state.ak.us/standards](http://www.eed.state.ak.us/standards). Outcomes are also based on the professional preparation standards of the National Association for the Education of Young Children (NAEYC) found at [www.naeyc.org/teachers/](http://www.naeyc.org/teachers/). The students will demonstrate the following outcomes:

1. Create a healthy, respectful, supportive, and challenging learning environment based on knowledge of child development.
2. Create respectful, reciprocal relationships that support and empower families, and involve all families in their children's development and learning.
3. Use systematic observations, documentation, and other effective assessment strategies in a responsible way, in partnership with families and other professionals, to positively influence children's development and learning.
4. Design effective approaches to teaching and learning, implement and evaluate experiences that promote positive development and learning for all children.
5. Incorporate knowledge of content areas to create appropriate experiences for young children.
6. Use ethical guidelines and other professional standards related to early childhood practice.
7. Demonstrate knowledgeable, reflective, and critical perspectives on professional practice, making informed decisions that integrate knowledge from a variety of sources.

The expected mastery of student outcomes differs in accordance with program level. Students who complete the Undergraduate Certificate and AAS in Early Childhood will be proficient entry-level child care workers, have knowledge of child development, and demonstrate basic abilities in child care paraprofessional skills. Students who complete the Bachelor of Arts in Early Childhood Education or the equivalent post-baccalaureate certificate, will demonstrate advanced integrated knowledge and skills in preparation for careers in teaching primary grades (K-3) as well as in infant, toddler, and preschool educational programs.

**UNDERGRADUATE CERTIFICATE, EARLY CHILDHOOD DEVELOPMENT**

**ADMISION REQUIREMENTS**

Applicants must satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, Academic Standards and Regulations. In order to be admitted to the Early Childhood Development program, applicants must complete an application to the Associate of Applied Science Early Childhood Development program. Applications may be obtained from the Department of Teaching and Learning. To be admitted to the Early Childhood Development practicum course (EDEC A295), applicants must meet all requirements for and be admitted by an advisor into the practicum course and have earned a grade of C or above in all EDEC courses.

**ACADEMIC PROGRESS**

All candidates in the Associate of Applied Science Early Childhood Development program must maintain a cumulative GPA of 2.00 or above in all EDEC courses.

**BACKGROUND CHECK REQUIREMENTS**

See Field Placements located at the beginning of the College of Education section of this chapter.

**CERTIFICATE REQUIREMENTS**

1. Complete the following required courses:
   - DN A145 Child Nutrition 3
   - EDEC A105 Introduction to the Field of Early Childhood 3
   - EDEC A106 Creativity and the Arts in Early Childhood 3
   - EDEC A201 Early Childhood Practitioner Roles and Responsibilities 2
   - EDEC A206 Integrated Curriculum for Young Children 3
   - EDEC A210 Guiding Young Children 3
   - EDEC A241 Infant and Toddler Development 3
   - EDEC A242 Family and Community Partnerships 3
   - EDEC A292 Early Childhood Practicum Seminar 1
   - EDEC A295 Early Childhood Practicum 3
   - EDEC A303 Young Children in Inclusive Settings 3
   - EDSE A212 Human Development and Learning (3) or
     - PSY A245 Child Development (3)
   - EDSE A212L Human Development and Learning Lab (1) or
     - PSY A245L Child Development Laboratory (1)

2. A total of 34 credits is required for the certificate.

**ASSOCIATE OF APPLIED SCIENCE, EARLY CHILDHOOD DEVELOPMENT**

**ADMISSION REQUIREMENTS**

Applicants must satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, Academic Standards and Regulations. In order to be admitted to the Early Childhood Development program, applicants must complete an application to the Associate of Applied Science Early Childhood Development program. Applications may be obtained from the Department of Teaching and Learning. To be admitted to the Early Childhood Development practicum course (EDEC A295), applicants must meet all requirements for and be admitted by an advisor into the practicum course and have earned a grade of C or above in all EDEC courses.

**ACADEMIC PROGRESS**

All candidates in the Associate of Applied Science Early Childhood Development program must maintain a cumulative GPA of 2.00 or above in all EDEC courses.

**GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.

**COMMUNICATION AND GENERAL REQUIREMENTS**

1. Oral Communication Requirements:
   - COMM A111 Fundamentals of Oral Communication (3)
   - COMM A235 Small Group Communication (3) or
   - COMM A237 Interpersonal Communication (3) or
   - COMM A241 Public Speaking (3)

2. Written Communication Requirements:
   - ENGL A111 Methods of Written Communication (3) and one of the following:
   - ENGL A211 Academic Writing About Literature (3)
ADMISSION REQUIREMENTS

Admission to the University of Alaska Anchorage: Early Childhood Major

Applicants must complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations. Application forms are available on the UAA website at: www.uaa.alaska.edu/admissions.

Admission to the Department of Teaching and Learning, College of Education: Early Childhood Major

Admission to the Department of Teaching and Learning is a prerequisite for all upper division coursework in early childhood. In order to be admitted to the Department of Teaching and Learning, applicants must:

1. Complete the application to the Department of Teaching and Learning. Early Childhood major by one of the following dates: March 1, August 1, or November 1.
2. Complete a minimum of 45 foundation credits, including all General Education Requirements, required for the degree (transfer credits may be used).
3. Complete a minimum of 18 lower division credits from the Early Childhood Major requirements.
4. Have a cumulative GPA of 2.75.
5. Successfully complete the Praxis I examination. Contact the College of Education for current passing scores.

Note: Admission to the Department of Teaching and Learning is competitive. Qualified applicants are accepted on a space-available basis. Admission to the University as an Early Childhood major does not guarantee admission to the department.

Admission to Early Childhood Internship

1. Meet all the requirements for and be admitted to the Department of Teaching and Learning as an Early Childhood major.
2. Submit an application form for admission to internship. Contact the Office of Clinical Services and Certification for appropriate deadlines.
3. Submit one letter of recommendation from someone who can speak to the applicant’s potential as a future early childhood educator.
4. Demonstrate general content knowledge competency through successful completion of all foundation coursework with a 2.75 GPA and a passing score on Praxis II.
5. Provide evidence of successful experiences working with children.
6. Interview.
7. Initiate fingerprinting and criminal background check process.
8. Provide evidence of a current physical examination. This service is available free at the UAA Student Health Center.
9. Maintain student health insurance throughout internship. Candidates may purchase this insurance through UAA.

Note: Qualified applicants are accepted on a space-available basis. Admission to the Department of Teaching and Learning does not guarantee admission to the internship.

ACADEMIC PROGRESS

All Early Childhood major courses must be completed with a grade of C or higher and internship(s) must be completed successfully in order to obtain an institutional recommendation for teacher certification. In addition, MATH A205 and foundation courses in child development and families and community relationships must be completed with a grade of C or higher in order to obtain an institutional recommendation for teacher certification.

GRADUATION REQUIREMENTS

Candidates must complete the following requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

B. EARLY CHILDHOOD EDUCATION REQUIREMENTS

MAJOR REQUIREMENTS

1. Complete the following required courses:
   - DN A145 Child Nutrition (3)
   - EDEC A105 Introduction to the Field of Early Childhood (3)
   - EDEC A106 Creativity and the Arts in Early Childhood (3)
   - EDEC A201 Early Childhood Practitioner Roles and Responsibilities (2)
   - EDEC A206 Integrated Curriculum for Young Children (3)
   - EDEC A210 Guiding Young Children (3)
   - EDEC A241 Infant and Toddler Development (3)
   - EDEC A242 Family and Community Partnerships (3)
   - EDEC A292 Early Childhood Practicum Seminar (1)
   - EDEC A295 Early Childhood Practicum (3)
   - EDEC A303 Young Children in Inclusive Settings (3)
   - EDSE A212 Human Development and Learning (3)

   or
   - PSY A245 Child Development (3)
   - EDSE A212L Human Development and Learning Lab (1)

   or
   - PSY A245L Child Development Laboratory (1)

2. Complete 12 credits of electives. EDEC A100 Fundamentals in Early Childhood is recommended. Candidates are encouraged to discuss elective choices with an advisor.

3. A total of 61 credits is required for the degree.

BACHELOR OF ARTS, EARLY CHILDHOOD EDUCATION

An individual interested in undergraduate early childhood preparation may obtain a Bachelor of Arts in Early Childhood Education to work with children from the ages of birth to age eight. Individuals with baccalaureate degrees should refer to Chapter 11 for information on post-baccalaureate certificates.

The Bachelor of Arts in Early Childhood is a professional degree. Unique features of the program include a foundation in liberal studies with coursework in child development and families. Candidates will engage in field experiences throughout their coursework to directly apply teaching and learning principles. In addition, candidates will engage in an internship(s) in early childhood settings. Admission to the program occurs in two stages (see below) and admission to the internship requires academic achievement, written and oral communication skills, and community involvement. See Field Placements located at the beginning of the College of Education section of this chapter.

BACKGROUND CHECK REQUIREMENTS

See Field Placements located at the beginning of the College of Education section of this chapter.

UNDERGRADUATE PROGRAMS, COLLEGE OF EDUCATION
B. **GENERAL EDUCATION REQUIREMENTS**
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. **BACKGROUND CHECK REQUIREMENTS**
See Field Placements located at the beginning of the College of Education section of this chapter.

D. **FOUNDATION REQUIREMENTS**
Complete the following foundation courses. The courses are selected to provide future early childhood educators with the skills and background knowledge in the various subjects they will be expected to teach. The selection is based on national and state standards for content preparation. Some of the foundation courses may also be used to meet General Education Requirements.

**Child Development** (6 credits)
- DN A145  Child Nutrition 3
- EDSE A212  Human Development and Learning (3) 3
- PSY A245  Child Development (3)

**Families & Community Relationships** (3 credits)
- SWK A342  Human Behavior in the Social Environment (3) 3
- SWK A409  Introduction to Child Welfare (3)

**Liberal Studies Humanities and Social Sciences Core** (18 credits)
*Students must meet General Education Requirements (GER) for Baccalaureate Degrees including 6 credits of social science (SS), from two different disciplines, and 6 credits of humanities (HUM).*

Complete the following courses:
- Select one course from GER fine arts list 3
- EDEC A105  Introduction to the Field of Early Childhood (SS GER) 3
- LSSS A111  Cultural Foundations of Human Behavior (SS GER) (3) 3
- or
- SWK A243  Cultural Diversity and Community Service Learning (SS GER) (3)
- HIST A132  History of United States II (HUM GER) 3

Select one course from the following:
- ANTH A200  Natives of Alaska (SS GER) (3)
- EDFN A478  Issues in Alaska Native Education, K-12 (3)
- HIST A341  History of Alaska (HUM GER) (3) (if HIST A341 is taken in place of ANTH A200 an additional SS GER required)

Select one course from the following:
- ANTH A250  Rise of Civilization (SS GER) (3)
- GEOG/INTL A101  Local Places/Global Regions: Introduction to Geography (SS GER) (3)
- HIST A131  History of United States I (HUM GER) (3)
- LSIC A331  Power, Authority, and Governance (3)
- PS A101  Introduction to American Government (SS GER) (3)
- PS A102  Introduction to Political Science (SS GER) (3)

**Liberal Studies Integrated Sciences Core** (10 credits)
- LSIS A102  Origins: Earth-Solar System-Life (NS GER) 5
- LSIS A201  Life on Earth (NS GER) 5

**Mathematical Skills** (6-7 credits)
Select one course from GER quantitative skills list (MATH A107 recommended)
- MATH A205  Communicating Mathematical Ideas 3

**Oral and Written Communication Skills** (9 credits)
Select one course from GER oral communication list
- Select two courses from GER written communication list 3

E. **MAJOR REQUIREMENTS**
1. Complete the following core courses (33 credits). Field experience in early childhood programs may be required as part of the courses.
- EDEC A106  Creativity and the Arts in Early Childhood 3
- EDEC A206  Integrated Curriculum for Young Children 3
- EDEC A210  Guiding Young Children 3
- EDEC A241  Infant and Toddler Development 3
- EDEC A242  Family and Community Partnerships 3
- EDEC A303  Young Children in Inclusive Settings 3
- EDEC A407  Observation and Documentation in Early Childhood 4
- EDEC A408  Children's Literature: Early Childhood Years 3
- EDFN A300  Philosophical and Social Context of American Education (GER Capstone) (3) or
- EDFN A304  Comparative Education (GER Capstone) (3)
- EDFN A301  Foundations of Literacy and Language Development 3
- EDFN A302  Foundations of Educational Technology 2

2. Complete the following methodology requirements (10 credits).
- EDEC A403  Mathematics and Science in Early Childhood 3
- EDEC A404  Literacy for Young Children 3
- EDEL A427  Teaching Social Studies in Elementary Schools 2
- PEP A345  Incorporating Health and Physical Activity into the Pre-K-6 Classroom 2

3. Complete the following internship and seminar requirements (14 credits):
- EDEC A492  Early Childhood Seminar (1+1) 2
- EDEC A495  Early Childhood Internship (3+9) 12*

*Special note: Completion of 12 credits required for degree and certification.

4. Complete an additional 12 credits of electives.
5. A total of 121-122 credits is required for the degree of which 42 must be upper division.

**INSTITUTIONAL RECOMMENDATION**

**PRE-K-3 TEACHER CERTIFICATION**
Candidates who complete the internship in the primary grades (Pre-K-3rd grade) may apply for teacher certification, Pre-K-3rd grade.

Following are the requirements for an institutional recommendation:
1. Major requirements completed with a grade of C or higher.
2. Foundation courses in Child Development and Families & Community Relationships completed with a grade of C or higher.
3. Cumulative GPA of 2.75.
4. Cumulative GPA of 2.75 in all major requirements.
5. Passing scores on the Praxis I and Praxis II exams.
6. Internships satisfactorily completed.
7. Bachelor of Arts in Early Childhood Education degree conferred.
Elementary Education
Professional Studies Building (PSB), Room 224, (907) 786-4481
www.coe.uaa.alaska.edu/elementary

Bachelor of Arts,
Elementary Education
(with Teacher Certification)

Individuals interested in undergraduate elementary teacher preparation may obtain either a BA in Elementary Education or a Post-Baccalaureate Certificate in Elementary Education with elementary teacher certification. See Chapter 11 for information on post-baccalaureate certificates.

The BA in Elementary Education is a professional degree. Unique features of the program include a strong liberal studies emphasis, integration of educational technology, and a year-long internship that follows the school district’s calendar rather than the UAA calendar.

Admission to the Department of Teaching and Learning is competitive. Criteria considered for admission to the internship include academic achievement, written and oral communication skills, and community involvement. The deadline for internship placement consideration is February 15. See Field Placements located at the beginning of the College of Education section of this chapter.

Student Outcomes
Student outcomes for the program are based on the Standards for Alaska’s Teachers located at: www.eed.state.ak.us/standards and the Association for Childhood Education International (ACEI) standards located at www.acei.org.

Admission Requirements
Admission to the University of Alaska Anchorage: Elementary Education Major

Applicants must complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations. Application forms are available on the UAA website at: www.uaa.alaska.edu/admissions.

Admission to the Department of Teaching and Learning, College of Education: Elementary Education Major

Admission to the Department of Teaching and Learning is a prerequisite for all education coursework with the exceptions of EDFN A101 Introduction to Education, EDFN A300 Philosophical and Social Context of American Education, and EDFN A304 Comparative Education. In order to be admitted to the department, students must:

1. Complete an application to the Department of Teaching and Learning by one of the following dates: March 1, August 1, or November 1.
2. Complete a minimum of 60 liberal studies credits, including all General Education Requirements, required for the degree (transfer credits may be used).
3. Have a cumulative GPA of 3.00.
4. Successfully complete the Praxis I examination. With the exceptions of EDFN A101 Introduction to Education, EDFN A300 Philosophical and Social Context of American Education, and EDFN A304 Comparative Education, applicants may not enroll in education courses without passing this examination at the level established by the College of Education.
5. Submit Interested Person Report.

Note: Admission to the Department of Teaching and Learning is competitive. Qualified applicants are accepted on a space-available basis. Admission to the university as an Elementary Education major does not guarantee admission to the department.

Admission to Elementary Internship
The Elementary Education Programs Admission Committee determines a candidate’s readiness to enroll in methods and the internship. The candidate must realize that requirements set forth below constitute minimum preparation, and it may be the judgment of the committee that the candidate needs further work to develop content, methodology, or classroom experience.

1. Meet all the requirements for and be admitted to the Department of Teaching and Learning as an Elementary Education major.
2. Submit an application form for admission to internship status by February 15.
3. Submit one letter of recommendation from someone who can speak to the candidate’s potential as a future elementary teacher.
4. Demonstrate general content knowledge competency through successful completion of all liberal studies coursework and a passing score on Praxis II: Elementary Content Knowledge.
5. Provide evidence of successful experiences working with children.
6. Interview.
7. Initiate fingerprinting and criminal background check process.
8. Provide evidence of a current physical examination. This service is available free at the UAA Student Health Center.
9. Maintain student health insurance throughout internship. Candidates may purchase this insurance through UAA.

Note: Qualified applicants are accepted on a space-available basis. Admission to the Department of Teaching and Learning does not guarantee admission to the internship.

Academic Progress
Satisfactory progress in the first internship is required for enrollment in the second internship. Child development, Alaska studies, MATH A205, and all Elementary Education major courses must be completed with a grade of C or higher in order to obtain an institutional recommendation for elementary teacher certification.

Graduation Requirements
Candidates must complete the following graduation requirements:

A. General University Requirements
Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

B. General Education Requirements
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. Background Check Requirements
See Field Placements located at the beginning of the College of Education section of this chapter.

D. Liberal Studies Area
Complete the liberal studies area. These courses are selected to provide future elementary teachers with the skills and background knowledge in the various subjects they will be expected to teach. The selection is based on national and state standards for content preparation. Some of the liberal studies courses may also be used to meet General Education Requirements (GER).

Liberal Studies Integrated Sciences Core (16 credits)
- LSIS A101 Discoveries in Science
- LSIS A102 Origins: Earth-Solar System-Life
- LSIS A201 Life on Earth
- LSIS A202 Concepts and Processes: Natural Sciences

Liberal Studies Integrative Core (9 credits)
- LSIC/PHIL A231 Truth, Beauty, and Goodness
- LSIC A331 Power, Authority, and Governance
- LSIC A332 Science, Technology, and Culture
1. Complete the following core courses (14 credits)
   - EDFN A300 Philosophical and Social Context of American Education (3) 3
     or
   - EDFN A304 Comparative Education (3)
   - EDFN A301 Foundations of Literacy and Language Development (3)
   - EDFN A302 Foundations of Educational Technology (2)
   - EDFN A303 Foundations of Teaching and Learning (3)
   - EDSE A482 Inclusive Classrooms for All Children (3)

2. Complete the following method courses (19 credits)**
   - EDEL A425 Teaching Reading in Elementary Schools (4)
   - EDEL A426 Teaching Mathematics in Elementary Schools (3)
   - EDEL A427 Teaching Social Studies in Elementary Schools (2)
   - EDEL A428 Teaching Science in Elementary Schools (2)
   - EDEL A430 Teaching Language Arts in Elementary Schools (3)
   - EDEL A431 Creative Expression: Music, Art, and Drama for Elementary Teachers (3)
   - PEP A345 Incorporating Health and Physical Activity into the Pre-K-6 Classroom (2)
   **Concurrent enrollment in and internship may be required.

3. Complete the following internships (9 credits)
   - EDEL A495A Internship I (3)
   - EDEL A495B Internship II (6)

4. A total of 120 - 131 credits is required for the degree, of which 42 credits must be upper division. Some students may have to take a 1-credit elective to acquire 120 credits.

INSTITUTIONAL RECOMMENDATION, ELEMENTARY TEACHER CERTIFICATION (K-6)

Following are the requirements for an institutional recommendation:
1. Major requirements completed with a grade of C or higher.
2. Cumulative GPA of 3.00.
3. Cumulative GPA of 3.00 in all major requirements.
5. Internships satisfactorily completed.

SPECIAL EDUCATION EMPHASIS, Admission Suspended

FACULTY

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Lee Henrikson, Term Assistant Professor, AFLMH@uaa.alaska.edu
The College of Health and Social Welfare comprises the departments of Health Sciences and Human Services, the Justice Center, the School of Nursing and the School of Social Work. The Gerontology minor is also housed in the college. The college offers a variety of certificate, undergraduate, and graduate degree options for students who are attracted to people-oriented careers. It also provides a special opportunity for cross-disciplinary studies as they relate to the human aspects of our culture, and helps to prepare graduates for the increasingly integrated approaches to service delivery demanded by society.

Professional programs housed within this college share a common interest in issues that impact the development, health, and well-being of individuals and communities. The instructional, service and scholarship efforts of the faculty in the various curricula are enhanced and supported by collaborative research and service activities in the Center for Alcohol and Addiction Studies, the Center for Human Development, the Alaska Area Health Education Center, the Justice Center, the Institute for Circumpolar Health Studies and the National Resource Center for American Indian, Alaska Native and Native Hawaiian Elders. Together, through multi-disciplinary approaches, the schools, departments, centers and institutes take direct action to address the needs and potentials of Alaska’s peoples and communities.

The Center for Community Engagement and Learning serves the entire university and connects academic programs with community needs to use scholarship and action for the mutual benefit of the university and state, its communities, and its diverse peoples. The center offers a baccalaureate Civic Engagement Certificate, the Bonner Leader Program, and Community Service-learning Advocates Program for students who wish to pursue public issues, action research, and service projects.

The Certificate in Civic Engagement prepares undergraduates and people with bachelor's degrees to become active, effective, ethical citizens in their professional and personal lives. Students from any major degree program develop the reflective, analytic, and practical skills to link curricular and co-curricular learning to civic engagement outside the academy through service-learning classes, internships, and community-engaged scholarship and creative activity. The certificate is intended for motivated students committed to action for the greater good.

Civic, personal, and academic growth are equally important in this program. Civic and personal growth is best accomplished through experiential education in the community together with critical reflection. Community-based service-learning is defined as a course or competency-based, credit-bearing educational experience in which students:

1. Participate in an organized service activity that meets identified community needs;
2. Gain an enhanced sense of civic responsibility; and
3. Reflect on the service activity in such a way as to gain further understanding of course content and a broader appreciation of the discipline.

Critical reflection entails describing activities, examining them in light of specific learning objectives, and articulating lessons and action plans from them. Reflection is widely recognized as a key means of linking scholarly ideas with the empirical world in everyday life.

**CERTIFICATE LEARNING OUTCOMES & COMPETENCIES**

Students who earn the Certificate in Civic Engagement will gain competencies in three domains: academic, personal, and civic.

Academically, students will achieve the outcomes of their majors and will be able to:

- Relate service and professional ethics to civic engagement frameworks;
- Identify and analyze social, cultural, economic, environmental, technical, and political aspects of public problems;
- Translate theoretical perspectives and frameworks of their disciplinary majors into actions solving concrete public problems affecting Alaskan, U.S. and international communities, with substantive emphases on ethics, community building or public policy, human and civil rights or sustainability; and
- Apply critical thinking skills and empirical evidence to make judgments regarding public problems outside the classroom.

Personally, students will be able to:

- Develop moral dispositions of judgment, civic participation and public commitments related to their personal values;
- Enter unfamiliar situations with confidence and participate effectively;
- Identify the disciplinary, societal, and cultural values that shape their own and others' commitments to human and civil rights and sustainability; and
- Assume responsibility for enacting public uses of their education and civic engagement in their anticipated vocational and personal trajectories.

Civically, students will be able to:

- Utilize communication and problem-solving skills in addressing public problems at multiple levels;
- Evaluate the places, interests and competing demands of others in the community and consider ethical implications to resolving them;
- Demonstrate commitment to resolving public problems beyond their college careers and to fostering others' involvement;
- Transform civic imaginations to enhance abilities of individuals, groups, and communities to embrace a vision for the future; and
- Assume leadership roles in groups and organizations capable of taking action on matters of common concern.

**ADMISSION REQUIREMENTS**

A student must satisfy the Admission to Certificate Requirements in Chapter 7, Academic Standards and Regulations.

A student must be enrolled in a major or pre-major baccalaureate degree program or have completed a baccalaureate degree.

A student must submit a plan of study demonstrating integration of the certificate with her/his major course of study; formulated in conjunction with certificate and departmental advisors. Regular advising is a crucial component of the certificate program. Although the CEL Curriculum Committee approves courses as meeting certificate criteria, the certificate faculty advisor approves courses with and for individual students.

**GRADUATION REQUIREMENTS**

1. Meet all General University Requirements for undergraduate certificates.

2. Concurrent completion of a baccalaureate degree program or completed baccalaureate degree.

3. Submission of a final Program of Study, which indicates all approved classes, to the certificate faculty advisor, the director of the Center for Community Engagement and Learning, and the dean of the College of Health & Social Welfare. The program of study must be forwarded to Degree Services at least two semesters prior to graduation.

4. Completion of the following according to the student’s individual Program Plan:

   Certificate core courses:
   - CEL A292 Introduction to Civic Engagement 3
   - CEL A395 Civic Engagement Internship* (3-9) 9
   - CEL A450 Civic Engagement Capstone* 3

   *Special note: Students in the Certificate for Civic Engagement may substitute a major-departmental internship and/or capstone course if specified civic engagement instructional goals are achieved, the minimum number of hours are realized, and the certificate faculty advisor approves.

   Area concentration courses, approved for Certificate by CEL Curriculum Committee, approved for student by certificate faculty advisor:
   - Course with human and civil rights or environmental sustainability as a substantive focus. A course that has a community-based learning component is preferred. 3
   - Course with community-building or public policy as a substantive focus. A course that has a community-based learning component is preferred. 3
   - Course with ethics as a substantive focus. Course must have a community-based learning component. 3

   Electives (must have community-based learning component), approved for certificate by CEL Curriculum Committee, approved for student by certificate faculty advisor:
   - 1 lower division (100-299) 3
   - 1 upper division (300-499) 3

5. A total of 30 credits is required for the certificate.


**FACULTY**

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**CENTER FOR HUMAN DEVELOPMENT**

2702 Gambell Street, Suite 103, Anchorage, AK 99503, (907) 272-8270 or (800) 243-2199
http://alaskachd.org

**OCCUPATIONAL ENDORSEMENT CERTIFICATE, CHILDREN’S RESIDENTIAL SERVICES**

The Occupational Endorsement Certificate, Children’s Residential Services is a 16-credit occupational endorsement for paraprofessionals currently working or planning to work with children and youth in therapeutic residential settings. By completing the endorsement certificate requirements, students gain skills essential to become effective members of therapeutic treatment teams.
**STUDENT OUTCOMES:**

Students who successfully complete this program will be able to:

- Use knowledge of therapeutic techniques, child development, and cultural responsiveness to interpret treatment plans in therapeutic residential settings for children and youth.
- Apply an array of strategies to support and shape behavior of children and youth with challenging behaviors.
- Abide by professional practices accepted in the field of children’s residential care.
- Blend concepts and skills to develop trauma-informed practices in children’s residential care.

**ADMISSION REQUIREMENTS**

Complete the Admission to Occupational Endorsement Certificates requirements in Chapter 7, Academic Standards & Regulations. Students will also need to provide proof of a current criminal background check that meets industry standards.

**ACADEMIC PROGRESS REQUIREMENTS:**

In order to earn the occupational endorsement, all courses must be completed with a grade of C or better. Students who audit a course in Disability & Long Term Supports or who are unable to earn a grade of a C or better in the course may repeat it following the procedures outlined in Chapter 7, Academic Standards & Regulations.

**CERTIFICATE REQUIREMENTS**

Complete 16 credits in the following courses:

- DLS A101 Introduction to Children’s Residential Care
- DLS A201 Skill Basics in Residential Services
- DLS A205 Teaching Social Skills to Youth in Residential Care
- DLS A206 Positive Behavioral Supports in Youth Residential Care
- DLS A385 Working with Traumatized Children

**FACULTY**

Karen Ward, Ed.D., Professor, Psychology Department: afkmw@uaa.alaska.edu

**GERONTOLOGY**

Social Sciences Building (SSB), Room 374, (907) 786-1955
www.uaa.alaska.edu/gerontology

Gerontology is the study of the aging process as individuals mature from middle age through later life. It includes the study of physical, mental, emotional, and social changes in older people as they age. Gerontology investigates changes in society that result from an aging population and applies this knowledge to policies and programs. This field is multidisciplinary and the study of aging combines and/or integrates information from academic and applied areas of study.

The field of gerontology is diverse and offers many different employment opportunities. Jobs may be found in:

- Community, human service, and religious organizations
- Health care and long-term care institutions
- Federal, state, and local government agencies
- Retirement communities
- Academic and other educational and research settings
- Professional organizations
- Business organizations

The minor is comprised of a selection of courses that specifically relate to issues concerning the aging process. Because of its multidisciplinary emphasis, there is no one preferred student major background necessary for working towards a minor. Please also read the policy section regarding Minors at the beginning of this chapter.

**MINOR, GERONTOLOGY**

The undergraduate Minor in Gerontology is comprised of a selection of courses that specifically relate to issues concerning the aging process. A total of 18 credit hours is required for the minor.

1. Complete required minor core courses:
   - SOC A110 Introduction to Gerontology: Multidisciplinary Approach
   - SOC A310 Sociology of Aging
   - PSY A450 Adult Development and Aging

2. Complete 9 additional credits from the list below. Six of the credits must be upper division courses. Up to 6 credits may be from approved practicum courses related to gerontology.
   - AKNS A492 Seminar: Cultural Knowledge of Native Elders (3)
   - HUMS A416 Substance Abuse and the Older Adult (3)
   - NS A434 Health Care of the Elderly (3)
   - PSY A143 Death and Dying (3)
   - SWK A470 Social Work with the Aging and Elderly (3)
   - Approved selected/special topics course(s) related to Gerontology (1-3)*

* Approved practica related to Gerontology (3-6)**

** Practica related to gerontological issues may also be used to meet minor program requirements. Practica are individualized and represent an applied or practical side of the minor and are offered by various departments. Practica must be approved by the gerontology committee. A maximum of 6 credits may be from practicum courses.

**HEALTH SCIENCES**

Diplomacy Building (DPL), Room 404, (907)786-6565
http://hs.uaa.alaska.edu/dept

**BACHELOR OF SCIENCE, HEALTH SCIENCES**

The Bachelor of Science in Health Sciences degree (BSHS) offers the Physician Assistant Track; and two tracks for Allied Health professionals: the Pre-Professional Track, and the Allied Health Education Track. The Physician Assistant Track provides a BS degree for students who have completed a Physician Assistant program. The Pre-Professional Track provides education for Allied Health professionals preparing for graduate or professional health career educational programs. The Allied Health Education Track provides education for Allied Health professionals wishing to teach in Allied Health education programs.

**Physician Assistant Track**

The Physician Assistant Track provides a BS degree for students who have completed the required education and clinical experience to work as a physician assistant.
Physician assistants (PAs) are health care professionals licensed to practice medicine with physician supervision. As part of their comprehensive responsibilities, PAs conduct physical exams, diagnose and treat illnesses, order and interpret tests, counsel on preventive health care, assist in surgery, and can write prescriptions in most states. Physician assistants practice in primary care medicine - family medicine, internal medicine, pediatrics, obstetrics, and gynecology - and in surgery and the surgical subspecialties. Within the physician-PA relationship, physician assistants exercise autonomy in medical decision making and provide a broad range of diagnostic and therapeutic services. PA practice may also include education, research, and administrative services.

Typical PA applicants come from a diversity of health care backgrounds, such as LPN, RN, paramedic, corpsman, and community health practitioners.

Program Outcomes
Graduates of the BSHS Physician Assistant Track will:

- Perform data collection, medical interviewing, and physical examination skills and communicate the acquired information effectively.
- Formulate medical decisions and treatment plans.
- Perform procedural skills appropriate to the physician assistant’s role.
- Work with patients to educate them about appropriate treatments and interventions to maximize health.
- Have knowledge of pharmacology and other treatment modalities to enable the physician assistant to function at the full scope of practice as allowed by individual state law.
- Provide assessment and care for common mental health conditions and concerns.
- Understand the unique features of the physician assistant role, including the physician assistant’s legal relationship with supervising and delegating physicians.
- Increase health care access by providing primary care services to under-served populations.

Physician Assistant Students Enrolled at MEDEX
Completion of the BSHS degree requires a year of intense didactic instruction that will be taught in Alaska through the University of Washington (UW) MEDEX program starting in 2009. While students may earn a PA certificate through a number of training programs, special arrangements have been made with the UW so that the UAA BSHS degree, with a Physician Assistant Track may be awarded in conjunction with coursework taken through the UW MEDEX Program. Students will receive their first year of coursework at UAA but will be admitted and registered at UW. Students will be co-enrolled during their summer year clerkship to meet the UAA degree requirements. Students must complete both their junior year courses and their senior year clerkship courses at UAA to receive the certificate from UW and their BSHS from UAA.

Procedures for the participation of UAA students in the UW MEDEX Northwest Physician Assistant Program
Up to 20 students may be admitted to the Anchorage training site of the UW MEDEX program annually, in accordance with the joint selection process established in the collaborative agreement between UAA and UW. Applicants are evaluated on their previous clinical experience and their commitment to practice in Alaska, particularly in under-served areas, in addition to their overall academic performance in the pre-physician assistant curriculum.

Alaska students admitted into the MEDEX program spend their junior year of the PA program at the UAA training site where they receive intense clinical and didactic instruction. The senior year of the BSHS program is spent in training sites throughout Alaska and the WWAMI region currently utilized by the MEDEX program.

The practicum year corresponds to UW’s year of clinical placement and supervision that completes the MEDEX certificate program. The clinical year begins in September and ends in early September the following year. The clinical placements call for 35-40 hours a week in supervised clinical training and 10-20 hours a week in self-study.

At the completion of the MEDEX PA program, students are eligible to sit for the National Certifying Examination for Physician Assistants. The University of Washington School of Medicine grants a Physician Assistant Certificate upon successful completion of the MEDEX PA program. Upon successful completion of degree requirements (see below), the University of Alaska Anchorage awards a Bachelor of Science Degree in Health Sciences.

For more information about the MEDEX Northwest Physician Assistant Program contact: www.washington.edu/medicine/som/depts/medex

Practicing PAs of other programs may contact the BSHS department to obtain details about entering this degree pathway.

BSHS PHYSICIAN ASSISTANT TRACK

ADMISSION REQUIREMENTS
Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations. Students who declare a Health Sciences major and do not meet the additional admission requirements listed below, but do meet the university’s general admission requirements, will be admitted as Health Sciences pre-majors (see pre-major admission below).

Health Care Experience
Students without health care experience should note that admission to the MEDEX program requires a minimum of two years of recent, full-time, hands on experience in the direct delivery of medical care to patients in addition to specific academic requirements. (See NOTE below, under Graduation Requirements). Students should meet with an advisor in the Health Sciences Department to discuss what type of work experience will meet this admission requirement.

For more information about the MEDEX Northwest Physician Assistant Program admission requirements visit: www.washington.edu/medicine/som/depts/medex/applicants/prerequisites.htm

Pre-Major Admission
Students admitted as pre-majors must contact an advisor in the Health Sciences Department and plan their academic schedule carefully in order to satisfy both the UAA BSHS admission and degree requirements and the MEDEX admission and program requirements.

FULL ADMISSION
To apply for full admission to the BSHS PA Track program, students must:

1. Have completed UW MEDEX admission requirements and have received formal notification of admission to the MEDEX program OR have graduated from an ARC-PA accredited program.
2. Complete a Change of Major form requesting a change of status from pre-major to full major.

NOTE: Students seeking admission to the MEDEX program must complete the following UAA BSHS pre-major courses: ENGL A111, ENGL A212, BIOL A111/L, BIOL A112/L and CHEM A103/L or BIOL A102 or
ACADEMIC PROGRESS
Students in pre-major admission status who are unsuccessful after three attempts to be admitted into the MEDEX program will be removed from the BSHS degree program. MEDEX students who do not successfully complete or are dismissed from the MEDEX program may be removed from the BSHS program.

CERTIFIED PHYSICIAN ASSISTANT’S DEGREE COMPLETION
ADMISSION REQUIREMENTS
Students who have graduated from the UW MEDEX program or another accredited PA program, and hold current NCCPA certification may be admitted to the UAA BSHS degree program to complete their degrees. They must meet the Baccalaureate Degree Programs Admission Requirements in Chapter 7 of this catalog and must submit official transcripts and official documentation of successful PA program completion.

Students admitted to the BSHS program who hold a current PA Certificate through an ARC-PA accredited program and satisfy all UAA requirements may be awarded credits for the certificate and apply those credits toward the BSHS. Contact the Health Sciences Department for details.

BSHS PHYSICIAN ASSISTANT TRACK
GRADUATION REQUIREMENTS
Students must complete the following requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
All students, with the exception of the following, must complete all General University Requirements for All Baccalaureate Degrees at the beginning of this chapter.

In conjunction with a collaborative agreement between the University of Washington MEDEX program and UAA, students who hold a MEDEX PA certificate may use their MEDEX courses to meet the UAA General University Requirements that 24 upper division credits must be completed in residence at UAA and 12 credits in the major must be completed in residence at UAA. These students will, however, be required to meet all other General University Requirements including completion of at least 30 credits in residence at UAA.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees at the beginning of this chapter.

C. MAJOR REQUIREMENTS
1. Complete the following course:
   - HS A491 Health Issues in Alaska 3
2. MEDEX students concurrently admitted to the BSHS degree program at UAA and the UW MEDEX program must complete the following:
   - HS A463 Physician Assistant Clinical Clerkship I 12
   - HS A464 Physician Assistant Clinical Clerkship II 12
   - HS A465 Physician Assistant Family Practice Clerkship I 12
   - HS A466 Physician Assistant Family Practice Clerkship II 12
3. A total of 120 credits is required for the degree, of which 42 must be upper division.

FACULTY
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HUMAN SERVICES
Beatrice McDonald Hall (BMH), Room 106, (907) 786-6437
http://hums.uaa.alaska.edu

The Department of Human Services offers both an Associate of Applied Science degree in Human Services preparing students for entry-level employment and a Bachelor of Human Services practitioner’s degree which holds as its mission, preparing Human Service generalists through competency-based, community-oriented programs encompassing classroom and practical learning opportunities. The AAS is articulated with the baccalaureate degree in a two-plus-two sequence. Employing a multidisciplinary approach, the degree objective is to provide students with a conceptual and skill foundation suitable for successful human service practice in both urban and rural settings. Human service practice requires multicultural understanding, respect of clients through a collaborative relationship founded upon a developmental model. Specific skill courses combined with practica are strengthened through conceptual coursework in Human Services, Social Work, Sociology and Psychology. The program also offers specialized areas in substance abuse, disabilities, diversity issues, general human services, and family and youth. These are coordinated with practicum placements to give students firsthand experience in their desired specialty.

An important part of the Human Services program is advising. Prospective students should contact a Human Services advisor before entering the program. Students are assigned an academic advisor when they declare the Human Services major. Entrance into the Human Services practicum requires admission to the degree, successful completion of specified courses and recommendation by the academic advisor. Contact the Human Services Department at 786-6437 for an appointment with an advisor.

Both the Human Services AAS and BHS are accredited by the Council for Standards in Human Services Education.

OCCUPATIONAL ENDORSEMENT CERTIFICATE,
CONFLICT RESOLUTION
The Human Services Occupational Endorsement Certificate in Conflict Resolution provides students the opportunity to acquire skills used in various conflict resolution methods used in human service agencies. The 18-credit program provides a balanced education in the study of family mediation, alternative dispute resolution, paraprofessional counseling and group facilitation. Instruction is delivered through classroom lectures, demonstrations, case studies and role plays.

OUTCOMES
Students completing this certificate are prepared to:
- Understand the nature of conflict through theory and collaborative practices.
- Demonstrate enhanced communication skills and interpersonal skills to include negotiation.
- Incorporate conflict management skills in human service practice.
- Integrate concepts of diversity into various collaborative practices.

ADMISSION REQUIREMENTS
1. Satisfy the admission requirements for Occupational Endorsements found in Chapter 7 of this catalog.

CERTIFICATE REQUIREMENTS
1. Complete the General University Requirements for Occupational Endorsement Certificates found at the beginning of this chapter.
2. Complete the following required courses:
   - HUMS A223 Introduction to Paraprofessional Counseling I 3
   - HUMS A224 Conflict and Collaborative Systems 3
Undergraduate Programs, College of Health and Social Welfare

HUMS A324 Introduction to Paraprofessional Counseling II 3
HUMS A333 Alternative Dispute Resolution 3
HUMS A334 Family Mediation 3
HUMS A434 Group Facilitation for Human Service Professionals 3

3. A total of 18 credits is required for the occupational endorsement certificate.

Associate of Applied Science, Human Services

Graduates of this program are able to:

- Analyze and navigate community based human services agencies, service delivery systems and secure a variety of community resources.
- Utilize a strengths-based approach to working with people and their problems in living.
- Effectively use intervention, and core paraprofessional counseling skills
- Apply their acquired human services skills in a service agency, to include assessment, interviewing, treatment planning, service delivery, and paraprofessional counseling.
- Demonstrate consolidation of knowledge through three areas of learning including:
  - Understanding of an agency, its target population and services delivered, and interaction with their community partners.
  - Development of their professional selves and identities with appropriate use of supervision
  - Application of client/community intervention skills
- Qualify for employment in the human services workforce.
- Build on their human services degrees as a foundation for further education.

Admission Requirements

Satisfy the Admission Requirements for Certificate and Associate Degree programs found in Chapter 7 of this catalog.

General University Requirements

1. Complete the General University Requirements for Associate of Applied Science Degrees found at the beginning of this chapter.
2. Complete the General Course Requirements for Associate of Applied Science General Degrees located at the beginning of this chapter.

Major Requirements

1. Complete the following required courses:
   - ANTH A200 Natives of Alaska (3)
   - ANTH A202 Cultural Anthropology (3)
   - HUMS A101 Introduction to Human Services 3
   - HUMS/ANTH A223 Introduction to Paraprofessional Counseling I 3
   - HUMS A295A Human Services Practicum I 3
   - HUMS A295B Human Services Practicum II 3
   - HUMS A324 Introduction to Paraprofessional Counseling II 3
   - PSY A111 General Psychology 3
   - PSY A150 Lifespan Development 3

2. Complete 6 credits from one of the emphasis areas:

**NOTE: Each Human Service degree (Associate of Applied Science and Bachelor of Human Services) requires a 6-credit emphasis area. BHS students may complete 6 credits from a different emphasis area or an additional 6 credits from the emphasis area used for the AAS.

General Human Services Emphasis

Complete 6 credits from the following:

- HUMS A122 Substance Abuse as a Contemporary Problem (3)
- HUMS A123 Public Education and Prevention in Substance Abuse (3)
- HUMS A226 Intervention Continuum in Substance Abuse Counseling (3)
- HUMS A416 Substance Abuse and the Older Adult (3)
- SWK A471 Addictions and Social Work (3)

Substance Abuse Emphasis

Complete 6 credits from the following:

- HUMS A122 Substance Abuse as a Contemporary Problem (3)
- HUMS A123 Public Education and Prevention in Substance Abuse (3)
- HUMS A226 Intervention Continuum in Substance Abuse Counseling (3)
- HUMS A416 Substance Abuse and the Older Adult (3)
- SWK A471 Addictions and Social Work (3)

Family and Youth Emphasis

Complete 6 credits from the following:

- HUMS A350 Men and Masculinity (3)
- HUMS A416 Substance Abuse and the Older Adult (3)
- PSY A245 Child Development (3)
- SOC A242 An Introduction to Marriage, Family and Intimate Relationships (3)
- SOC A246 Adolescence (3)

Disabilities Emphasis

Complete 6 credits from the following:

- ASL A101 Elementary American Sign Language I (3)
- ASL A102 Elementary American Sign Language II (3)
- ASL A201 Intermediate American Sign Language I (3)
- PSY A445 Strategies of Behavior Change (3)
- PSY A455 Mental Health Services in Alaska (3)

Diversity Issues Emphasis

Complete 6 credits from the following:

- AKNS A101 Alaska Native Languages I (4)
- AKNS A102 Alaska Native languages II (4)
- AKNS A109 Alaska Native Language Orthography (4)
- AKNS A201 Alaska Native Perspectives (3)
- AKNS A492 Seminar: Cultural Knowledge of Native Elders (3)
- ANTH A270 Cross-Cultural Perspectives on Women (3)
- HUMS A350 Men and Masculinity (3)
- HUMS A416 Substance Abuse and the Older Adult (3)
- WS A200 Introduction to Women's Studies and Gender Studies (3)

3. Choose 12 credits of electives. Consultation with faculty advisor recommended.
4. A total of 60 credits is required for the degree.
The Addiction Studies minor requires a total of 18 credits, of which a minimum of 9 must be upper division.

1. Complete 6 credits from the following courses:  
   - HUMS A122 Substance Abuse as a Contemporary Problem (3)  
   - HUMS A226 Intervention Continuum in Substance Abuse Counseling (3)

2. Complete 12 credits from the following:  
   - HUMS A123 Public Education and Prevention in Substance Abuse (3)  
   - HUMS A124 Introduction to Physiology and Pharmacology of Substance Abuse (3)  
   - HUMS A416 Substance Abuse and the Older Adult (3)  
   - HUMS A417 Substance Abuse Counseling for Human Services Professionals (3)  
   - JUST A110 Introduction to Justice (3)  
   - NS A428 Nursing the Chemically Dependent Client (3)  
   - SWK A471 Addictions and Social Work (3)

3. A total of 18 credits is required for the minor.

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JUSTICE
Consortium Library (LIB), Room 213, (907) 786-1810  
http://justice.uaa.alaska.edu

The Justice Center has statewide responsibility for higher education and research related to the areas of crime, law, and the administration of justice. The center offers a baccalaureate degree program for students interested in the justice area. In addition, a Paralegal Studies Certificate is available for qualified students who wish to pursue a paralegal career.

Justice faculty have professional research and service obligations beyond classroom teaching. The center is an organized research unit which, at its own initiative or in response to requests from outside the university, conducts research and public education programs. Efforts are made to ensure that all undergraduate students who major in Justice have opportunities to work with faculty members on Justice Center research and service projects.

JUSTICE RESEARCH HONORS
The Justice Center recognizes those undergraduate students who develop exceptional social science research skills by awarding them Justice Research Honors. Students majoring in Justice are eligible to graduate with Justice Research Honors upon satisfactory completion of all of the following requirements:

1. Meet the requirements for a BA degree in Justice.
2. Meet the requirements for membership in the national justice honor society, Alpha Phi Sigma (including, 3.20 GPA in UAA Justice courses, 3.00 overall).
3. Complete the following courses with a grade of B or better:  
   - JUST A400 Advanced Research Methods  
   - JUST A401 Inferential Data Analysis in Justice  
   - JUST A488 Research Practicum
4. Students intending to graduate with Justice Research Honors must notify the Justice Center undergraduate program coordinator, in writing, on or before the date they file their Application for Graduation with the Office of the Registrar.
**BACHELOR OF ARTS, JUSTICE**

The Bachelor of Arts degree in Justice satisfies the educational prerequisites for a variety of administrative, operational, research, and planning positions related to crime, law and the administration of justice. Those graduates with records of high achievement in the Justice undergraduate program are prepared to pursue advanced education in graduate and professional degree programs at the University of Alaska Anchorage and other universities.

Graduates who receive a Bachelor of Arts degree in Justice have both broad educational preparation for productive citizenship and the specialized knowledge and skills required for the evaluation, administration and improvement of police, court, and correctional policies and organizations.

**ADMISSION REQUIREMENTS**

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

**A. GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

**B. GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

**C. MAJOR REQUIREMENTS**

1. Complete the following required courses:
   - JUST A110 Introduction to Justice 3
   - JUST A200 Introduction to Research Methods 3
   - JUST A201 Justice Data Analysis 3
   - JUST A221 Justice Organization and Management 3
   - JUST A250 Development of Law 3
   - JUST/SOC A251 Crime and Delinquency 3
   - JUST A330 Justice and Society 3
   - JUST A360 Justice Processes 3
   *Upper division Justice electives 9
   *Justice electives, any level 6

   *Paralegal Studies courses can be counted as Justice electives. Only 6 credits of JUST A490 may be counted toward the Justice electives required for the BA in Justice.

2. Complete a university-approved minor in another discipline. Specific requirements for minors are listed in the catalog by school or department. 18-21
3. All Justice majors must take the Justice Exit Examination. There is no minimum score required for graduation.
4. A total of 120 credits is required for the degree of which 42 credits must be upper division.

**MINOR, JUSTICE**

Students majoring in another subject who wish to minor in Justice must complete the following requirements. A total of 18 credits is required for the minor, 9 of which must be upper division.

- JUST A110 Introduction to Justice 3
- JUST/SOC A251 Crime and Delinquency 3
- *Upper division Justice electives 9
- *Justice electives, any level 3

*Paralegal Studies courses can be counted as Justice electives. Only 6 credits of JUST A490 may be counted toward the Justice electives required for the minor in Justice.

**FACULTY**

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**PARALEGAL STUDIES**

Consortium Library (LIB), Room 213, (907) 786-1810
http://justice.uaa.alaska.edu

**UNDERGRADUATE CERTIFICATE, PARALEGAL STUDIES**

The Paralegal Studies Certificate Program is approved by the American Bar Association.

**PROGRAM GOALS**

1. Broad-based knowledge achieved through general college education.
2. Exceptionally strong competency in critical thinking and in written and oral communication skills.
3. Comprehensive understanding of ethical responsibilities as assistants to attorneys, governed by the rules of professional responsibility.
4. Legal vocabulary and understanding of procedure required to perform paralegal duties in a civil practice.
5. Operational knowledge of the interviewing and investigatory techniques required for paralegal performance.
6. Command of skills required for both law library and computerized legal research, and for memoranda of legal analysis.
7. Knowledge of the variety of legal specialties performed by paralegals.
8. Practical experience in a law office or agency that allows students to apply classroom skills.

**ADMISSION REQUIREMENTS**

Students must have completed a total of 6 credits in ENGL A111 (or equivalent), A211, A212, A213, A311, A312, or A414 with a minimum grade of B in each class. Students must have a 2.00 overall GPA to be admitted to the Paralegal Studies Certificate program. Students must apply and be admitted to the program at the Anchorage campus before completing 12 credits of the paralegal core curriculum.

*Note: Special admission requirements for this certificate are enforced and certificates cannot be completed at extended campuses. Certain courses required for the certificate must be taken only at the Anchorage campus.*

Students are encouraged to complete a BA or Associate of Arts in conjunction with the Paralegal Certificate. Paralegal courses fulfill the Justice elective requirements for the Justice BA and the General Elective requirements for the Associate of Arts. Students who have already completed a degree at an accredited institution whose composition courses meet UAA's written communication and program admission requirements need only complete the Paralegal core courses. Transfer credit for some core courses may be determined at the departmental level.

Students interested in the Paralegal Studies Certificate program should consult a faculty advisor in the Justice Center before enrolling in paralegal courses.
CERTIFICATE REQUIREMENTS

1. Complete 6 credits in written communications (ENGL A111, A211, A212, A213, A214, A311, A312, or A414) with a minimum grade of B in each class. 6

2. Complete the required core courses:
   - PARL A101 Introduction to Law 3
   - PARL A215 Paralegal Studies 3
   - PARL A235 Factual Investigation and Interviewing 2
   - PARL A236 Ethics and Paralegals 1
   - PARL A238 Civil Procedure 3
   - PARL A256 Legal Research I 3
   - PARL/ JUST A340 Family Law (3) or 3
   - PARL/ JUST A352 Substantive Criminal Law (3) or
   - PARL/ JUST A354 Criminal Procedure (3) or
   - PARL A362 Commercial Law (3) or
   - Other upper division law course from Justice curriculum with paralegal coordinator approval (3)
   - PARL A375 Litigation 3
   - PARL A456 Advanced Legal Analysis and Writing 4
   - PARL A470 Law of Government Regulation 3
   - JUST A495 Internship (1-6) 3

3. Complete at least 20 credits, in addition to the preceding core courses, from the General Education Requirements for Baccalaureate Degrees list or from courses that meet the general requirements in humanities, social sciences, and math/natural sciences for the associate degree. 20

4. Complete 3 credits of any elective at the 100-level or above. 3

5. Students must achieve a minimum grade of C in each paralegal core course to receive the certificate. Courses may be repeated to improve grades according to university or program policy. 6

6. A total of 60 credits is required for the certificate.

Note: Graduates are not authorized to provide direct legal services to the public. The Paralegal Studies Certificate program is a training program for paralegals who are authorized to perform substantive legal work under the supervision of an attorney. The program does not train lawyers or legal administrators.

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SCHOOL OF NURSING

Professional Studies Building (PSB), Room 103, (907) 786-4550
http://nursing.uaa.alaska.edu

The mission of the Nursing program is to educate students for productive citizenship, personal growth, and professional nursing practice. The department offers potential students interested in becoming qualified to practice as a registered nurse two options: the Associate of Applied Science degree in Nursing and the Bachelor of Science degree in Nursing Science. The programs are designed to reflect Alaska's needs and health care delivery systems, although graduates are prepared for beginning practice positions in other geographic areas as well. An AAS Direct Articulation program is available for individuals who already hold the LPN license in Alaska. A baccalaureate completion program is available for individuals who already hold the RN license in Alaska. The nursing programs are approved by the Alaska Board of Nursing and accredited by the National League for Nursing Accreditation Commission (61 Broadway, New York, NY 10006; (212) 363-5555, ext 153). Graduates of the programs are eligible to write the National Council Licensing Examination (NCLEX) for licensure as a Registered Professional Nurse in Alaska and other nursing jurisdictions. The baccalaureate program also provides students with the academic base for graduate study in nursing.

Information sessions are available to interested students. Times and locations are recorded on (907) 786-4560.

UNDERGRADUATE CERTIFICATE, PRACTICAL NURSING

Admission to the Practical Nursing Certificate program has been suspended. Please contact the department for information.

ASSOCIATE OF APPLIED SCIENCE, NURSING

Graduates of the Associate of Applied Science, Nursing program are prepared to use the nursing process to provide effective nursing services to individuals receiving care in inpatient settings and in structured outpatient settings. The academic program provides students with a closely related mix of theory and clinical practice; students gain experience in hospitals, nursing homes, clinics, and community agencies.

ADMISSION REQUIREMENTS

Students may complete the Associate of Applied Science, Nursing program in two academic years (four semesters); admission to the clinical sequence is determined by a ranking process, admission is selective, and admission requirements must be completed prior to February 1 (see items 1-6 below). Students are encouraged to submit application to the university by August to ensure complete processing of application and transcript evaluation by February 1. Students are encouraged to complete co-requisite courses while waiting for admission to the clinical sequence.

In order to have a student file ranked for possible admission to the nursing sequence, the following items must be completed no later than February 1:

1. UAA Certificate of Admission from the Office of Admissions, including transcripts from both high school/GED and college, with transcript evaluations (if any). Documentation from transcripts must show successful completion of the following courses with grades of C or above: algebra, biology with laboratory, and chemistry with laboratory. Courses may have been taken at the high school or college-level. Equivalent college-level courses in lieu of high school are: MATH A055, BIOL A102 and BIOL A103, CHEM A055.
2. Student attends an advising session with the coordinator of student affairs, School of Nursing, Call (907) 786-4560 for a recorded message.
3. School of Nursing Application and Confidential Required Information form sent to the coordinator of student affairs, School of Nursing.
4. Three letters of reference sent to the coordinator of student affairs, School of Nursing.
5. Upon completion of items 1-4, student has an interview with a member of the AAS Admissions Committee.
6. Take the Nurse Entrance Test (NET) through Advising and Testing. Call (907) 786-4500 for specific dates and to sign up.
7. Upon completion of items 1-6, student's file is ranked based on a point system.
Please contact department for further details. Students are contacted in March with the results.

Once admitted to associate degree clinical nursing courses, students are required to provide the following before beginning clinical coursework:

1. Evidence of:
   a. Immunity to rubella and rubeola, confirmed by titer;
   b. Immunity to hepatitis A and hepatitis B, confirmed by titer (first semester clinical students may be in the process of completing the immunization series; for those students, documentation of immunity by titer is required prior to entry into second year courses);
   c. Immunity to chicken pox documented by history, titer or current immunization;
   d. Diphtheria/tetanus vaccination within the past 10 years (with booster required at the time of expiration);
   e. Freedom from active tuberculosis, documented annually by negative PPD skin test or by health examination by a nurse practitioner, physician, or physician’s assistant; 
   f. Documentation of HIV testing annually (results not required).
2. Current Health Provider Certification in Cardiopulmonary Resuscitation for infants, children, and adults. First year students will have until the third week of the semester to complete this certification which then must be kept current until graduation.
3. Professional liability insurance in the amount of $1 million/$3 million; insurance must be maintained throughout the duration of the student’s enrollment in clinical nursing courses. Specific information regarding acceptable professional liability insurance policies may be obtained directly from the program.
4. Results of a national-level criminal background check.

Students enrolled in clinical courses must provide their own transportation to clinical assignments and will be required to purchase uniforms and specialized equipment. The school assumes no responsibility for illnesses and injuries experienced by students in conjunction with their clinical experiences; students who are injured while completing clinical assignments are responsible for all associated medical costs. It is strongly recommended that students maintain personal medical insurance.

**Academic Progress**

In order to progress within the Associate of Applied Science, Nursing program, students must earn a satisfactory grade (C or higher or P) in all nursing courses. Students who are unable to earn an acceptable grade in a nursing course during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space available basis. Students enrolled in one course must be concurrently enrolled in all courses with that common number (NURS A120 and NURS A120L; NURS A125 and NURS A125L; NURS A220 and NURS A220L; NURS A222 and NURS A222L; NURS A225 and NURS A225L; NURS A250 and NURS A250L).

The four semester clinical course sequence, which begins with NURS A120/120L must be completed within four years.

**General University Requirements**

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science General Degree Requirements (15 credits) located at the beginning of this chapter. At least 3 of the 6 credits of general requirements must be a social science course.

**Major Requirements**

1. Complete the following required courses:
   - BIOL A111 Human Anatomy and Physiology I 4
   - BIOL A112 Human Anatomy and Physiology II 4
   - BIOL A240 Introductory Microbiology for Health Sciences 4
   - NURS A120 Nursing Fundamentals 3
   - NURS A120L Nursing Fundamentals Lab 4
   - NURS A125 Adult Nursing I 3
   - NURS A125L Adult Nursing I Lab 4
   - NURS A180 Basic Nursing Pharmacology 3
   - NURS A220 Perinatal Nursing 3
   - NURS A220L Perinatal Nursing Lab 1
   - NURS A221 Advanced Parenteral Therapy Lab 1
   - NURS A222 Pediatric Nursing 3
   - NURS A222L Pediatric Nursing Lab 1
   - NURS A225 Adult Nursing II 3
   - NURS A225L Adult Nursing II Lab 3
   - NURS A250 Psychiatric Nursing 3
   - NURS A250L Psychiatric Nursing Lab 1
   - NURS A255 Staff Nurse: Legal, Ethical, and Organizational Issues 1
   - PSY A150 Lifespan Development 3
   - DN A203 Nutrition for Health Sciences 3

2. A total of 70 credits is required for the degree.

**Associate of Applied Science, Nursing Licensed Practical Nurse Option**

Licensed practical nurses may complete the AAS Nursing program in three semesters. Admission to the clinical sequence is selective and determined by a ranking process. Students are encouraged to complete co-requisite courses while waiting to qualify for admission to the clinical sequence.

**Admission Requirements**

Student files entered into the admission ranking process must include documentation of the following by February 1:

1. UAA Certificate of Admission from the Office of Admissions, including high school transcripts or GED certificate and transcripts of all college work, together with UAA transcript evaluations (if needed). Transcripts must provide evidence of completion of the following courses at the high school or college level with grades of C or higher: algebra, biology with laboratory, and chemistry with laboratory. Students may use course equivalents to the following UAA courses in lieu of work at the high school level: MATH A055, BIOL A102 and BIOL A103 and CHEM A055.
2. Successful completion of or concurrent enrollment in the following college courses or their equivalents:
   a. BIOL A111 Anatomy and Physiology I
   b. ENGL A111 Methods of Written Communication
   c. PSY A150 Lifespan Development
3. Current active Alaska LPN license.
4. Completed School of Nursing Application and Confidential Information form (sent to the coordinator of student affairs, School of Nursing).
5. Three letters of references mailed directly to the coordinator of student affairs, School of Nursing.
6. Interview with a member of the AAS Admissions Committee (scheduled after items 1-5 above are completed).

When items 1-6 are complete, the student’s file will be entered into the ranking process; further details about the ranking process may be obtained directly from the AAS Nursing program. Students are notified of the results of the ranking process by March 30. Once admitted to the associate degree clinical courses, students are required to provide documentation of health, CPR, and liability insurance before actually beginning clinical coursework.

Requirements marked with an asterisk (*) are considered valid only if the expiration date does not occur prior to the end of the semester):

1. Evidence of:
   a. Immunity to rubella and rubeola, confirmed by titer;
   b. Immunity to hepatitis A and hepatitis B, confirmed by titer (first semester clinical students may be in the process of
(GER refers to UAA General Education Requirement)

**BACHELOR OF SCIENCE, NURSING SCIENCE**

Students pursuing the baccalaureate degree in Nursing Science are provided both the theory and clinical base to enable them to assess, implement, and evaluate health care to meet the needs of individuals, families, groups, and communities whose health status varies qualitatively and quantitatively. Students working on a degree in Nursing Science may choose from two options: the Basic Student Option and the Registered Nurse Option.

**HONORS IN NURSING**

Students majoring in Nursing are eligible to graduate with departmental honors by satisfying the following requirements:

1. Meeting the requirements for Graduation with Honors as listed in the UAA catalog.
2. Meeting the requirements for a BS in Nursing Science.
3. Earning a grade point average of 3.50 or higher in courses within the School of Nursing (courses with NS prefix).
4. Completing the following process
   a. Obtaining written support for the intent to graduate with honors from the individual's faculty advisor.
   b. Notifying the chair of the baccalaureate program and the Baccalaureate Curriculum Committee in writing of the intent to graduate with honors prior to enrolling in the first semester senior year classes.
5. Satisfactorily completing the two honors electives* courses during the senior year of the baccalaureate Nursing program.

## Undergraduate Programs, College of Health and Social Welfare

**Basic Student Option**

Students who apply to the baccalaureate nursing major and who qualify for admissions to baccalaureate nursing majors are admitted as pre-nursing majors. Admissions as a pre-nursing major does not guarantee admission to the Nursing program. There are a limited number of seats available in each nursing course. Students must apply for admission to the nursing major during the semester in which they are completing the final prerequisites for the first nursing courses (see No. 6 below). Applications must be submitted prior to October 1 in the fall semester, and February 1 in the spring semester. The School of Nursing strongly recommends that students submit their university application up to six months prior to the School of Nursing deadlines to ensure complete processing of the application and transcript evaluation. The process for advancement to the major and the formal admission to the Nursing program are:

1. UAA Certificate of Admission and transcript evaluations (if any) from the Office of Admissions.
2. Advising sessions with a School of Nursing advisor. The student attends a group advising session (call 907-786-4560 for pre-registered information on group advising session).
3. An extracted minimum grade point average of 2.70 for courses required for the nursing major and completed at the time of application to the Nursing major.
4. A grade of C or higher in all specified courses required for the nursing major.
5. Completion of specified prerequisite courses:
   (GER refers to UAA General Education Requirement)
BIOL A111/L  Human Anatomy and Physiology I 8
and
BIOL A112/L  Human Anatomy and Physiology II with Laboratory (4)
and
CHEM A103/L  Survey of Chemistry with Laboratory (4) 8
and
CHEM A104/L  Introduction to Chemistry and Biochemistry with Laboratory (4)
and
ENGL A111  Writing in the Social and Natural Sciences (3)
(ENGL A120, PHIL A101 or PHIL A201) or PSY A150 3
Oral communication GER 3
Humanities or fine arts or social science GER 3
PSY or SOC from GER social science list 3
For students not required to take ENGL A111, another written communication (GER) course must be completed to total 6 credits. For transfer students, grades from equivalent courses are substituted.
6. Enrollment in, or credit for,
BIOL A240/L  4
PSY A150 or (ENGL A120, PHIL A101 or PHIL A201) 3
ANTH or ECON from social science GER list 3
Humanities or fine arts or social science GER 6
7. Applicants may not repeat any prerequisite course more than once.
8. Application to the baccalaureate Nursing major. After completion of the first 34 credits, as outlined in No. 5, and during enrollment in courses outlined in No. 6, the student meets with the coordinator of student affairs to verify course completion and GPA and completes the application to the Nursing major. The student may call (907) 786-4550 to set up an appointment.
9. School of Nursing Application and Confidential Required Information form on file in the school.
11. A current Plan of Study signed by a School of Nursing advisor on file with the School of Nursing.
12. After completion of all the above steps, the student’s file is forwarded to the school’s Admissions Committee for acceptance into the Nursing major. Formal admission to the Nursing program is based on the student’s relative standing on the minimum requirements outlined above. There are two deadlines for consideration by the committee: October 1 in the following fall semester and February 1 in the following spring semester.
13. Achievement of a C or higher in the specified courses for the major that are in progress when admission is sought (i.e., PSY A150, BIOL A240), and maintenance of a minimum 2.70 GPA until the semester of enrollment in beginning nursing courses (NS A204 and NS A216).
14. Preference will be given to residents of the State of Alaska as defined by the university’s policy on residency for tuition purposes.

**CLINICAL REQUIREMENTS**
All students who are admitted to clinical nursing courses are required to provide copies of documentation of health, CPR and personal liability insurance prior to beginning those courses. Requirements marked with an asterisk (*) are considered valid only if the expiration date does not occur prior to the end of the semester of current enrollment:
1. Evidence of:
   a. Immunity to rubella and rubella confirmed by titer;
   b. Immunity to hepatitis A and hepatitis B confirmed by titer (first semester clinical students may be in the process of completing the immunization series, for those student, documentation of immunity by titer is required prior to entry into second year courses);
   c. Diphtheria/tetanus vaccination within the last 10 years (booster required at time of expiration);
   d. Freedom from active tuberculosis, documented annually by negative PPD skin test or by health examination by a nurse practitioner, physician, or physician's assistant.*
   e. Immunity to chicken pox confirmed by health history, titer, or immunization;
   f. Documentation of HIV testing annually (results not required).
2. Current Health Provider certification in Cardiopulmonary Resuscitation for infants, children and adults (information regarding acceptable courses may be obtained from the department).*
3. Professional liability insurance in the amount of $1 million/$3 million; insurance must be maintained throughout the duration of the student’s enrollment in clinical nursing courses. (Specific information regarding acceptable professional liability insurance policies may be obtained directly from the Program).*
4. Results of a national level criminal background check. Students enrolled in clinical courses must provide their own transportation to clinical assignments and will be required to purchase uniforms and specialized equipment. The school assumes no responsibility for illnesses and injuries experienced by students in conjunction with their clinical experiences; students who are injured while completing clinical assignments are responsible for all associated medical costs. It is strongly recommended that students maintain personal medical insurance.

**ACADEMIC PROGRESS**
In order to progress within the baccalaureate nursing program, students must earn a satisfactory grade (C or higher or P) in all Nursing Sciences courses.

Re-enrollment: Students who are unable to earn an acceptable grade in a nursing course during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space available basis.

Concurrent enrollment: Students enrolled in one course must be concurrently enrolled in all courses with that common number (NS A313, NS A313L; NS A315, NS A315L; NS A401, NS 401L; NS A406, NS A406L; NS A411, NS A411L, NS A416, NS A416L).

Basic student option progress: The four-semester clinical sequence must be completed in seven semesters and no more than a one-semester delay between sequential clinical courses will be permitted without validation of continued competence and currency.

**GRADUATION REQUIREMENTS**
Students must complete the following graduation requirements:

A. **GENERAL UNIVERSITY REQUIREMENTS**
Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

B. **GENERAL EDUCATION REQUIREMENTS**
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter. In the Nursing program, some required prerequisite courses fulfill general education requirements.

C. **MAJOR REQUIREMENTS**
1. Complete all 44 credits of support courses for the Nursing Science major with a grade of C or better. Courses marked with an asterisk (*) must be completed prior to admission to clinical nursing courses:
   - **ANTH or ECON General Education Requirement** 3
   - *BIOL A111 Human Anatomy and Physiology I 4
   - *BIOL A112 Human Anatomy and Physiology II 4
   - *BIOL A240 Introductory Microbiology for Health Sciences 4
   - *CHEM A103/L Survey of Chemistry with Laboratory 4
   - *CHEM A104/L Introduction to Organic Chemistry and
Biochemistry with Laboratory 4
*DN A203 Nutrition for the Health Sciences 3
*ENGL A213 Writing in the Social and Natural Sciences 3
PHIL A302 Biomedical Ethics 3
*PSY A150* Lifespan Development 3
PSY or SOC General Education Course 3
*Reasoning Skills:* 3
ENGL A120, or PHIL A101, or PHIL A201
STAT A252 Elementary Statistics (3) 3
or STAT A307 Probability and Statistics (3) 3
**Must be in addition to the required General Education Requirements.**

2. Nursing Courses: Complete required nursing courses for the Nursing Science major (64 credits).
   - NS 204 Technology and Nursing Informatics 3
   - NS A216 Pathophysiology 4
   - NS A300 Foundations of Nursing I 4
   - NS A303 Foundations of Nursing II 3
   - NS A303L Foundations of Nursing II Lab 5
   - NS A309 Pharmacology in Nursing 3
   - NS A313 Health Disruptions I 3
   - NS A313L Health Disruptions I Lab 3
   - NS A315 Health I: Nursing Therapeutics 3
   - NS A315L Health I: Nursing Therapeutics Lab 3
   - NS A400 Research in Nursing 3
   - NS A401 Health Disruptions II 3
   - NS A401L Health Disruptions II Lab 2.5
   - NS A406 Nursing Therapeutics in Complex Health Disruptions 2
     - NS A406L Nursing Therapeutics in Complex Health Disruptions Lab 2.5
   - NS 411 Health II: Nursing Therapeutics 3
   - NS 411L Health II: Nursing Therapeutics Lab 3
   - NS A415 Nursing Management and Legal Perspectives 4
   - NS A416 Concentration in Clinical Nursing 0.5
   - NS A416L Concentration in Clinical Nursing Lab 3.5
   - Nursing elective (upper division) 3

3. A total of 126 credits is required for the degree; 42 credits must be upper division.

**REGISTERED NURSE OPTION**

For students who hold current licensure as a Registered Professional Nurse in the State of Alaska, the School offers "RN-only" courses and sections within the nursing major designed to build upon the RN's basic preparation and experience and to facilitate progress in meeting program objectives. Previous college credits are evaluated for comparability to established requirements within the program and may be accepted for transfer; in addition, credit by examination is available to satisfy some General Education Requirements. Additional information is available upon request.

**ADMISSION REQUIREMENTS**

Registered nurses returning to complete the baccalaureate degree in nursing science must successfully complete the same academic prerequisites as basic students. Students who apply to the baccalaureate nursing major and who qualify for admission to baccalaureate study are admitted as pre-nursing majors. Admission as a pre-nursing major does not guarantee admission to the Nursing program. Registered Nurses must apply for admission to the nursing major during the semester in which they are completing the final prerequisites for NS A204. The deadlines for RN admission are twice a year on November 1 and March 1 for the following summer. Formal admission to the Nursing program is based on the registered nurse's relative standing on the following minimum requirements:

1. UAA Certificate of Admission and transcript evaluations from the Office of the Registrar.
2. Current licensure as a Registered Professional Nurse in the State of Alaska. Copy of licensure on file with the school.
3. A current Plan of Study signed by a Nursing advisor and the RN student on file with the School of Nursing and Health Sciences. The student may call (907) 786-4550 to set up an advising session.
4. An extracted minimum grade point average of 2.00. The grade point average will be calculated using grades from all courses which are required for the nursing major that have been completed at the time of application to the major.
5. A grade of C or better in all specified courses required for the nursing major.
6. Completion of or credit for specified prerequisite courses (17 credits):
   - BIOL A111 Human Anatomy and Physiology I 4
   - CHEM A103/L Survey of Chemistry with Laboratory 4
   - ENGL A111 Methods of Written Communication 3
   - COMM A111, ENGL A120, PHIL A101, PHIL A201, or PSY A150 3
   - General Education Requirement 3
   - For students not required to take ENGL A111, another English composition course will be substituted. For transfer students, grades from equivalent courses will be substituted.
7. Enrollment in, or credit for,
   - BIOL A112 Human Anatomy and Physiology II 4
   - CHEM A104/L Introduction to Organic Chemistry and Biochemistry with Laboratory 4
   - ENGL A120, PHIL A101, or PHIL A201 3
   - ENGL A213 Writing in the Social and Natural Sciences 3
   - at the time of application to the major, on achieving a C in the specified courses for the major that are in progress when admission is sought (i.e., CHEM A104/L, BIOL A112), and on maintaining a minimum 2.00 grade point average until beginning nursing courses.
8. A School of Nursing and Health Sciences application on file in the school.
9. Three letters of reference, one of which must be a professional reference.

Registered Nurse students not formally admitted by UAA as a baccalaureate seeking student in the Nursing program or admitted as pre-nursing majors are eligible to take the following courses:

Nursing electives for which prerequisites have been met.

**RN CLINICAL REQUIREMENTS**

See Clinical Requirements under the Basic Student Option.

**RN ACADEMIC PROGRESS**

See Academic Progress under the Basic Student Option.

**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

A. **GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

B. **GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter. In the Nursing program, some required prerequisite courses fulfill general education requirements.

C. **MAJOR REQUIREMENTS**

1. Support Courses: Complete support courses for the Nursing Science major (38 credits). All support courses must be completed with a grade of C or better prior to admission to 300-level clinical nursing courses:
   - ANTH or ECON* General Education Requirement 3
4. A total of 126 credits is required for the degree, 42 credits of which must be upper division.

3. Complete elective credits to total 126 credits.

2. Nursing courses for academic credit: Complete the following following required nursing courses within the Nursing Science major (34 credits). Courses marked with an asterisk (*) must be completed with a grade of C or better prior to admission to 400-level clinical nursing courses.

RN Licensure Credit
An accepted, degree-seeking UAA nursing student who has successfully passed the National Council Licensure Examination (NCLEX) and has current RN licensure in the State of Alaska may be granted the following UAA course credits (26.5 credits) upon admission to the Nursing major:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS A216</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>NS A309</td>
<td>Pharmacology in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NS A303</td>
<td>Foundations of Nursing I</td>
<td>3</td>
</tr>
<tr>
<td>NS A303L</td>
<td>Foundations of Nursing II Lab</td>
<td>5</td>
</tr>
<tr>
<td>NS A313</td>
<td>Health Disruptions I</td>
<td>3</td>
</tr>
<tr>
<td>NS A313L</td>
<td>Health Disruptions I Lab</td>
<td>3</td>
</tr>
<tr>
<td>NS A401</td>
<td>Health Disruptions II</td>
<td>3</td>
</tr>
<tr>
<td>NS A401L</td>
<td>Health Disruptions II Lab</td>
<td>2.5</td>
</tr>
</tbody>
</table>

An administrative fee will be charged for these credits. To receive credits, the student must complete the appropriate form with a Nursing advisor. Contact the School of Nursing (907) 786-4550 for further information.

2. Nursing courses for academic credit: Complete the following following required nursing courses within the Nursing Science major (34 credits). Courses marked with an asterisk (*) must be completed with a grade of C or better prior to admission to 400-level clinical nursing courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*NS A205</td>
<td>Nursing Informatics</td>
<td>3</td>
</tr>
<tr>
<td>*NS A305</td>
<td>Health Assessment of Individuals</td>
<td>2</td>
</tr>
<tr>
<td>*NS A305L</td>
<td>Health Assessment of Individuals Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>*NS A308</td>
<td>Dimensions of Professional Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>*NS A314</td>
<td>Health I for Registered Nurses</td>
<td>2</td>
</tr>
<tr>
<td>*NS A314L</td>
<td>Health I for Registered Nurses Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>NS A400</td>
<td>Nursing Research</td>
<td>3</td>
</tr>
<tr>
<td>NS A408</td>
<td>Complex Health Disruptions: Nursing Therapeutics</td>
<td>2</td>
</tr>
<tr>
<td>NS A408L</td>
<td>Complex Health Disruptions: Nursing Therapeutics Lab</td>
<td>2</td>
</tr>
<tr>
<td>NS A411</td>
<td>Health II: Nursing Therapeutics</td>
<td>3</td>
</tr>
<tr>
<td>NS A411L</td>
<td>Health II: Nursing Therapeutics Lab</td>
<td>3</td>
</tr>
<tr>
<td>NS A417</td>
<td>Management in Nursing</td>
<td>3</td>
</tr>
</tbody>
</table>

Three credits of Nursing elective may be met with a current recognized nursing certification.

3. Complete elective credits to total 126 credits.

4. A total of 126 credits is required for the degree, 42 credits of which must be upper division.

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SCHOOL OF SOCIAL WORK
Gordon Hartlieb Hall (GHH), Room 106, (907) 786-6900
http://socialwork.uaa.alaska.edu

The educational purpose of the Bachelor of Social Work (BSW) program at the University of Alaska Anchorage is to prepare graduates for beginning professional social work practice. Preparation for professional practice builds on a broad-based liberal arts education accomplished through completion of General Education and major degree requirements. Social work is a profession committed to assisting individuals, families, groups, organizations, communities, and society as a whole in the improvement of the quality of life through the amelioration of social problems, equitable distribution of social resources, and client empowerment. Within an overall emphasis on consumer-centered planned change, the Bachelor of Social Work degree program at the University of Alaska Anchorage is guided by the following principles:

- Social work practice is based on selective use of knowledge in planned efforts with human systems and social problems.
• Social work practice recognizes human diversity as a strength.
• Social work practice is based on professional values and ethics.
• Social work practice is based on professional relationships.
• Social work practice is based on reciprocal role performance.
• Social work practice is based on a strengths perspective.

Social work education engages the student in carefully planned experiences to achieve the knowledge, skills, and values necessary for beginning professional practice. These experiences take place in the classroom, laboratory, volunteer experience, small seminars, and selected field work practicum placements. The practicum placement is an essential component for completion of the professional degree for the BSW.

The Bachelor of Social Work degree program is accredited by the Council on Social Work Education (CSWE). BSW program admission and curriculum requirements are consistent with BSW licensing requirements for the State of Alaska.

**BACHELOR OF SOCIAL WORK**

**MISSION AND GOALS OF THE BSW PROGRAM**

The mission of the UAA BSW program is to prepare generalist social workers who enhance human well-being and promote social and economic justice for people of all backgrounds, particularly those in Alaska.

Alaska’s unique and rich multicultural populations, geographic remoteness, and frontier status allow the real potential for skilled social work professionals to make a profound impact on social and economic injustice in our state.

Based upon the mission established for the BSW program, the program goals are to prepare generalist social work practitioners who are:

• Competent in multiple entry-level practice roles across client systems, particularly within the state of Alaska.
• Committed to the enhancement of human well-being.
• Committed to the promotion of social and economic justice for people of all backgrounds, particularly those in Alaska.
• Guided by the values and ethical standards of the social work profession.
• Prepared to enhance the quality of service delivery systems.
• Knowledgeable, skillful, and sensitive with people from diverse backgrounds.

**ADMISSION REQUIREMENTS**

When students declare Social Work as their major they are assigned to the current catalog year. Declaration of Social Work as a major does not guarantee admission to the Social Work program. Students must apply for admission to the Social Work program during the fall semester of their junior year. Full admission to the Social Work program is based upon the requirements listed below.

Social Work credits earned through other CSWE accredited social work programs may be transferred to UAA and applied toward the Bachelor of Social Work degree. Approval from the UAA School of Social Work is required for acceptance of social work transfer credits.

**REQUIREMENTS FOR FULL ADMISSION TO THE SOCIAL WORK PROGRAM**

To apply for full admission to the Social Work program, students must have completed, prior to entering practicum the following:

1. General Education Requirements for Baccalaureate Degrees.
2. Specified Liberal Arts Foundation courses (see Major Requirements) with a grade of C or better.
3. The following Social Work courses with a grade of C or better (25 credits):
   - SWK A106 Introduction to Social Welfare 3
   - SWK A206 Introduction to Social Work 3
   - SWK A230 Social Work Practice I 4
   - SWK A311 Social Work Practice II: Organizations and Communities 3
   - SWK A342 Human Behavior in the Social Environment 3
   - SWK A424 Social Work Research 3
   - SWK A481 Case Management in Social Work Practice 3

Students must submit the following application materials to the School of Social Work by the last Friday in October prior to intended entry into field work:

1. The School of Social Work Application for Admission to the BSW degree and practicum for fall enrollment.
2. Admissions statement.
3. Social Work faculty advisor’s approval to apply.
4. A Student Practicum Interest sheet.
5. A Change of Major form indicating change of status from Pre-Major to Full Major.

The Admission Committee reserves the right to request additional information if necessary.

Students participate in an admission interview with faculty and community members to assess the student’s readiness to enter the Social Work program and participate in practicum. The School of Social Work will notify applicants of their admission status by December 15.

Admission to the Social Work program is based on 1) successful completion of the requirements listed above; 2) beginning competence in client-centered communication skills as demonstrated in SWK A330; and 3) professional judgment of Social Work faculty.

Many students do not have all required courses completed at the time of application. In this event, the student may be admitted to the BSW program conditionally, and will be required to complete the courses with a grade of C or better prior to the fall semester in which they plan to enter practicum.

**FIELD PRACTICUM**

Placements may become competitive if the number of applicants exceeds the number of spaces. The program and agencies also reserve the right to refuse and/or terminate students who do not meet a minimum standard of performance. Thus, while the School of Social Work makes every effort to find appropriate field placements for students, admittance to the BSW program does not guarantee acceptance by cooperating social services agencies.

Only students eligible to receive state licensure will be admitted to the BSW degree program. Please contact the School of Social Work for further information.

The BSW program does not grant Social Work course credit for life experience or previous work experience.

**DEPARTMENTAL HONORS**

The Bachelor of Social Work program recognizes exceptional performance by conferring Departmental Honors in Social Work. In order to receive Honors in Social Work, a student must meet each of the following requirements:

1. Complete all requirements for the BSW degree. A minimum of 30 credits applicable to the BSW degree must be completed at UAA.
2. Have a GPA of 3.75 or higher in upper division (300- and 400-level) Social Work courses.
3. Completion of:
   - SWK A363 Great Books in Social Work
   - SWK A463 Social Work Senior Honors Research Project
4. One course in applied statistics, with a grade of C or better.
5. Notify the BSW program coordinator in writing, on or before the
date of submitting the Application for Graduation with the Office of the Registrar, of the intent to graduate with departmental honors.

Successful completion of Departmental Honors in Social Work in the UAA BSW program earns the right to waive a regular review of an admission packet to the foundation curriculum of the Master of Social Work program. Students are responsible for completing a UAA Graduate Application for Admission and a program application for admission to the MSW program. The application packet should be submitted to the MSW Admissions Committee by the application deadline, with request to waive the regular review process. Admission to the full program will be granted if the applicant meets all of the requirements for departmental honors. Students interested in waiving the foundation curriculum must apply for advanced standing with a full review.

ACADEMIC PROGRESS

Students in the Social Work program must earn a grade of C or better in the required liberal arts and the required social work courses. Adherence to the Code of Ethics established by the National Association of Social Workers is required.

COURSE CONTENT CURRENCY REQUIREMENT

All upper division courses with a Social Work subject code (SWK) must be completed within seven years prior to graduation.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. MAJOR REQUIREMENTS

1. Complete the following liberal arts foundation courses, with a grade of C or better:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH A200</td>
<td>Natives of Alaska</td>
<td>3</td>
</tr>
<tr>
<td>ANTH A202</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BA A151</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>ECON A201</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL A102</td>
<td>Introductory Biology</td>
<td>3-4</td>
</tr>
<tr>
<td>BIOL A111</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL A112</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIOL A115</td>
<td>Fundamentals of Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL A116</td>
<td>Fundamentals of Biology II</td>
<td>4</td>
</tr>
<tr>
<td>ENGL A311</td>
<td>Advanced Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL A313</td>
<td>Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL A414</td>
<td>Research Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL A120</td>
<td>Critical/Creative Thinking</td>
<td>3</td>
</tr>
<tr>
<td>PHIL A101</td>
<td>Introduction to Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHIL A201</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL A301</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL A421</td>
<td>Philosophy of the Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Complete the following required core courses, with a grade of C or better:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWK A106</td>
<td>Introduction to Social Welfare</td>
<td>3</td>
</tr>
<tr>
<td>SWK A206</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SWK A243</td>
<td>Cultural Diversity and Community Service Learning</td>
<td>3</td>
</tr>
<tr>
<td>SWK A330</td>
<td>Social Work Practice I</td>
<td>3</td>
</tr>
<tr>
<td>SWK A331</td>
<td>Social Work Practice II: Organizations and Communities</td>
<td>3</td>
</tr>
<tr>
<td>SWK A342</td>
<td>Human Behavior in the Social Environment</td>
<td>3</td>
</tr>
<tr>
<td>SWK A406</td>
<td>Social Welfare: Policies and Issues</td>
<td>3</td>
</tr>
<tr>
<td>SWK A424</td>
<td>Social Work Research</td>
<td>3</td>
</tr>
<tr>
<td>SWK A430</td>
<td>Social Work Practice III: Groups and Families</td>
<td>3</td>
</tr>
<tr>
<td>SWK A431</td>
<td>Social Work Practice IV: Integrative Capstone</td>
<td>3</td>
</tr>
<tr>
<td>SWK A481</td>
<td>Case Management in Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SWK A495A</td>
<td>Social Work Practicum I</td>
<td>6</td>
</tr>
<tr>
<td>SWK A495B</td>
<td>Social Work Practicum II</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Upper division Social Work electives</td>
<td>6</td>
</tr>
</tbody>
</table>

3. Complete electives to total 120 credits.

4. A total of 120 credits is required for the degree, of which 42 must be upper division.

Note: It is recommended that students take one or two 3-credit electives each semester to bring total credits to 120.

MINOR, SOCIAL WELFARE STUDIES

Students majoring in another subject who wish to minor in Social Welfare Studies must complete the following requirements. A total of 18 credits is required for the minor.

<table>
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<td>SWK A342</td>
<td>Human Behavior in the Social Environment</td>
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<td>Social Work Research</td>
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<td>Social Work Practice III: Groups and Families</td>
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<td>Social Work Practice IV: Integrative Capstone</td>
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<tr>
<td></td>
<td>Upper division Social Work electives</td>
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</tr>
</tbody>
</table>

FACULTY

Mary Dallas Allen, Assistant Professor
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Kathi Trawver, Assistant Professor, AFKRT@uaa.alaska.edu
COMMUNITY AND TECHNICAL COLLEGE

The UAA Community and Technical College (CTC) is dedicated to the development and delivery of quality career and technical, community, and continuing education programs. CTC strives to meet community and industry demand for these types of education and training.

In keeping with the mission of the University of Alaska Anchorage, the Community and Technical College has a commitment to innovation and flexibility that makes high-quality education and training available to all who have the ability and interest to pursue an education or profession. To accomplish this, the college delivers career and technical education to both non-degree-seeking and certificate- or degree-seeking students; continuing education courses to professionals and the community; instruction and services for under-prepared, linguistically diverse, or at-risk students; as well as cultural and community service programs for all.

CTC provides educational and learning support opportunities through student success units: College Preparatory & Developmental Studies; Learning Resources Center; Military Programs; and Chugiak-Eagle River. These units support students in all colleges and in all majors. CTC provides training for personal and professional development through specialized training units: Community Education; Workforce Development; and the North Pacific Fisheries Observer Training Center.

Faculty within the College are highly trained professionals, many with years of experience in the technical specialties related to their teaching areas. Career and Technical Education Advisory Committees help ensure that programs are closely linked to the needs of the state economy. Graduates of CTC programs generally find immediate employment in their chosen field of study.

CTC’s career and technical education leads to Occupational Endorsement Certificates, Undergraduate Certificates, Associate of Applied Science degrees, and Bachelor of Science degrees in a total of over 20 program areas. CTC Career and Technical programs focus on eight areas: Allied Health Sciences; Aviation Technologies/AFROTC; Career & Technical Education; Construction & Design Technology; Computers & Electronics Technologies; Culinary Arts, Hospitality, and Restaurant Management; Health, Physical Education, & Recreation; and Transportation & Power.

ADVISING

Prospective students should contact the CTC academic advising coordinator at (907) 786-6480 for more information on CTC programs.

ARTICATION WITH HIGH SCHOOL PROGRAMS

The Community and Technical College has a close and positive working relationship with Alaska school districts that eases the transition from high school to college. Students may earn college credit for Tech Prep courses while still in high school. Information regarding these programs can be obtained by calling the Community and Technical College Tech Prep Office at 786-6464, refer to Tech Prep Program in Chapter 9, or by visiting the website at http://techprep.uaa.alaska.edu.

REGIONAL COORDINATION

The Community and Technical College serves as a resource to the Southcentral region extended campuses in the area of career and technical education. The dean of the college serves as regional career and technical education coordinator and provides assistance to the campus directors and faculty in coordinating the development and delivery of career and technical education programs and coursework in Kenai, Kodiak, and Palmer. The goal of regional coordination of career and technical education is to allow the student maximum flexibility within acceptable academic guidelines. Many courses are offered between UAA and the Southcentral extended campuses, and may be easily transferred from one campus to another.

COLLEGE PREPARATORY & DEVELOPMENTAL STUDIES

The College Preparatory & Developmental Studies Department (CPDS) helps under-prepared, linguistically diverse, and nontraditional students develop the academic and language skills necessary to pursue successfully their lifelong learning goals.

The CPDS department offers composition, English-as-a-Second Language (ESL), mathematics, reading, and study skills courses that prepare students to advance to the next academic level. The department uses placement and retention advising, tutoring, and a developmental teaching philosophy to help students succeed.

College Preparatory & Developmental Studies focuses on academic and professional English-as-a-Second Language at the intermediate and advanced levels. These courses strengthen ESL students’ usage of Standard American English and build ESL students’ confidence in their English abilities.

Developmental math courses (MATH A050, MATH A054, MATH A055, and MATH A105) are taught to insure mastery of the required course material. Classes incorporate in-class lectures, work in the math lab with instructors and certified tutors, untimed testing in the math lab with flexible hours, and the opportunity to retake examinations. Computer supplements, videotapes, CD-ROMs, workshops, web courses, and graphing calculators are available. CPDS math courses are found under the MATH preface, and are identified with the “_B_” in the section number. Example: MATH A054 section 080; or MATH A055 section 685.

Developmental English classes (grammar, reading, study skills, vocabulary, and writing) are found under the PRPE preface (Preparatory English). They offer traditional classroom instruction as well as individualized reading labs. Students are supported through use of a computer-assisted writing lab staffed with certified tutors.

The math and computer-assisted writing labs are computerized and staffed by certified tutors for composition and math. CPDS and the Learning Resource Center operate these labs.

CPDS offers an interdisciplinary learning community commonly known as “Smart Start.” Collaborative instruction in math, writing, reading, and academic success skills provide a high degree of support for at-risk students. These classes are team-taught by developmental faculty with the help of certified tutors.

AIR FORCE ROTC

Aviation Complex (AVNC) 2811 Merrill Field Drive, Room 116, (907) 786-7266

Air Force ROTC educates and trains UAA students to serve as officers in the United States Air Force. Air Force ROTC has two-, three-, and four-year programs that lead to a commission as a second lieutenant. The curriculum consists of academic courses and a leadership laboratory. Air Force ROTC is not a degree or certificate granting program. The academic courses cover the history, organization, and mission of the Air Force, as well as leadership, management, and national security affairs. Any UAA student may take these academic courses (except AIRS A150) without joining the Cadet Corps or the Air Force. However, certain courses require prerequisites or faculty permission.

The leadership laboratory provides practical military training. Activities include field trips to Air Force bases, physical fitness training, marching, and leadership exercises. To attend the leadership laboratory, UAA students must join the Cadet Corps and not have a medical condition that would preclude service in the Armed Forces.
To become an officer through Air Force ROTC, a student must, at a minimum, complete the two-year program (300- and 400-level courses plus leadership laboratory), a summer field training encampment, and earn a baccalaureate degree in any major from UAA. Upon graduation and commissioning, new lieutenants must serve four years in the Air Force. Those who successfully complete Air Force pilot training must serve 10 years after training.

Two hours of mandatory physical training (PT) are required each week. Times and location of PT sessions to be announced.

**Two-Year Program**

1. Available to UAA students with two years remaining until graduation. Cadets must take the courses listed below and attend a summer field training encampment either before or after starting the 300-level courses or in the summer prior to starting the 400-level courses.

   - **AIRS A301** US Air Force Leadership and Management I 3
   - **AIRS A302** US Air Force Leadership and Management II 3
   - **AIRS A401** National Security Affairs I 3
   - **AIRS A402** National Security Affairs II/Preparation for Active Duty 3
   - **AIRS A150** US Air Force Leadership Laboratory (1) 4

2. Cadets take **AIRS A150 (US Air Force Leadership Laboratory)** each semester for a total of four semesters and 6 credits. Academic courses are taken in the order listed, beginning with **AIRS A301** in the fall semester.

**Three-Year Program**

1. Available to UAA students with three years remaining until graduation. Cadets must take the courses listed below and attend a summer field training encampment prior to starting the 300-level courses.

   - **AIRS A201** Evolution of Air and Space Power I 2
   - **AIRS A202** Evolution of Air and Space Power II 2
   - **AIRS A301** US Air Force Leadership and Management I 3
   - **AIRS A302** US Air Force Leadership and Management II 3
   - **AIRS A401** National Security Affairs I 3
   - **AIRS A402** National Security Affairs II/Prep for Active Duty 3
   - **AIRS A150** US Air Force Leadership Laboratory (1) 6

2. Cadets take **AIRS A150 (US Air Force Leadership Laboratory)** each semester for a total of six semesters and 8 credits. Academic courses are taken in the order listed, beginning with **AIRS A201** in the fall semester.

**Four-Year Program**

1. Available to UAA students with four or more years remaining until graduation. Cadets must take the courses listed below and attend a summer field training encampment prior to starting the 300-level courses.

   - **AIRS A101** Foundations of the US Air Force I 1
   - **AIRS A102** Foundations of the US Air Force II 2
   - **AIRS A201** Evolution of Air and Space Power I 2
   - **AIRS A202** Evolution of Air and Space Power II 2
   - **AIRS A301** US Air Force Leadership and Management I 3
   - **AIRS A302** US Air Force Leadership and Management II 3
   - **AIRS A401** National Security Affairs I 3
   - **AIRS A402** National Security Affairs II/Preparation for Active Duty 3
   - **AIRS A150** US Air Force Leadership Laboratory (1) 8

2. Cadets must take **AIRS A150 (US Air Force Leadership Laboratory)** each semester for a total of eight semesters and 8 credits. Academic courses are taken in the order listed, beginning with **AIRS A101** in the fall semester.

**Scholarships and Incentive Payments**

Air Force ROTC has numerous scholarship and incentive programs for high school seniors planning to enroll at UAA and for college students currently enrolled or planning to enroll at UAA. All students receiving a scholarship or incentive payment must join the Cadet Corps and be a full-time student (at least 12 semester credits for undergraduate or 9 semester credits for graduate students).

1. High school seniors can compete for Air Force ROTC scholarships that pay tuition, fees, and books at any university with an Air Force ROTC program. The scholarship includes a monthly stipend. Students can obtain applications from the UAA Air Force ROTC office or from a high school guidance counselor. Applications must be postmarked no later than December 1 of a student’s senior year.

2. Air Force ROTC at UAA has several scholarship options for college students. These scholarships cover tuition, fees, and books for sophomores, juniors, and seniors. Scholarships also include a monthly stipend. Students compete for these scholarships during the academic year prior to activation. For example, a 100-level cadet can compete for a scholarship that would start in the fall of the cadet’s 200-level year.

3. All scholarships and incentives are subject to federally mandated age restrictions. Contact Air Force ROTC at UAA for more information.

**Commissioning**

After completing the AFROTC program, graduating from UAA, and passing a commissioning physical, cadets will receive a commission as a second lieutenant in the US Air Force.

1. Cadets selected for pilot training will usually begin the training within one year of commissioning. Officers who successfully complete Air Force pilot training must serve 10 years. Cadets compete for pilot training slots in their 300-level year. The pilot selection board considers GPA, cadet ranking, Physical Fitness Test scores, previous flight time, and pilot aptitude test scores when assessing candidates. Air Force ROTC at UAA has more information on this highly competitive program.

2. Cadets not qualified for pilot training can compete for slots in other career fields. The Air Force has a variety of operations, administrative, engineering, and scientific assignments. Cadets compete for and receive career assignments during the 400-level year and will serve four years in the US Air Force after commissioning.

3. Cadets may also compete for medical school appointments. Scholarships cover tuition, fees, and books for a cadet’s undergraduate and medical school programs. Air Force ROTC at UAA has more information on this highly competitive program.

**Faculty**

*Captain Troy Bassett, Assistant Professor*

*Major Richard Maze, Assistant Professor, AFROTC@uaa.alaska.edu*

*Lt. Colonel Doug Smith, Professor/Chair*

**Apprenticeship Technologies**

*University Center (UC), Room 130, (907) 786-6423*

[www.uaa.alaska.edu/ctc/career/apt.cfm](http://www.uaa.alaska.edu/ctc/career/apt.cfm)

The Apprenticeship Technologies program is a 60-credit Associate of Applied Science degree coordinated and delivered collaboratively by UAA, UAF, and UAS. The curriculum specifically reflects the commitment of the university to provide high-quality instruction and service to the public through a practical integration of general coursework and training for career and technical occupations. Individuals receiving this degree...
must complete a formal apprenticeship program and hold journeyworker level status in occupations recognized by the U.S. Department of Labor, Office of Apprenticeship.

Students declaring a major in Apprenticeship Technologies must present documentation of acceptance into a registered apprenticeship program approved by the U.S. Department of Labor, Office of Apprenticeship. The department will review the documentation and may recommend up to 38 credits be transcribed following completion of the apprenticeship. Students are encouraged to begin the courses listed below while participating in the apprenticeship program in order to expand the quality and breadth of training. Students who complete this program will be eligible to enroll in the Bachelor of Science, Technology program at UAA, the Bachelor of Technology program at UAF, or other appropriate degree programs.

ASSOCIATE OF APPLIED SCIENCE, APPRENTICESHIP TECHNOLOGIES

DEGREE OUTCOMES
At the completion of this program, students will be able to:

• Demonstrate effective communication skills needed in the workplace.
• Display human relations skills.
• Show proficiency in computational skills needed for the occupation.

ADMISSION REQUIREMENTS
1. See Associate of Applied Science admissions requirements in Chapter 7 of this catalog.
2. Present documentation of acceptance into a registered apprenticeship program approved by the U.S. Department of Labor, Office of Apprenticeship.

ADVISING
Students should contact the Apprenticeship Technologies faculty for assistance with course planning toward the Associate of Applied Science degree.

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the Associate of Applied Science Degree Requirements located at the beginning of this chapter.

B. MAJOR REQUIREMENTS
1. Complete the following required courses:
   ENGL A111 Methods of Written Communication 3
   ENGL A212 Technical Writing 3
   MATH A105 Intermediate Algebra (or higher) (3) 3
   or
   STAT A252 Elementary Statistics (or higher) (3) 3
2. Complete one of the following: 3
   HUMS/
   PSY A153 Human Relations (3)
   CIOS A261A Interpersonal Skills in Organizations * (3)
   Social sciences General Education Requirement (3)
3. Complete one of the following: 3
   COMM A111 Fundamentals of Oral Communication (3)
   COMM A235 Small Group Communication (3)
   COMM A237 Interpersonal Communication (3)
   COMM A241 Public Speaking (3)
4. Complete 6 credits of safety, computer, business, technical or other advisor-approved courses linked to an identified education or career pathway. *Complete 3 credits General Course Requirements if CIOS A261A is taken for #2 above.
5. Technical credits from approved apprenticeship program. See Non-Traditional Credit section of the catalog.

6. Electives to complete 60 credits as needed.
7. Keep a portfolio of required work.
8. A total of 60 credits is required for the degree.

FACULTY
Sally Spieker, Assistant Professor, AFSAS3@uaa.alaska.edu

ARCHITECTURAL AND ENGINEERING TECHNOLOGY

Division of Construction and Design Technology (CDT)
University Center (UC), Room 130, (907) 786-6465
http://www.uaa.alaska.edu/ctc/construction/aet

The Architectural and Engineering Technology (AET) program provides entry-level skills, continuing education, and advanced technical skills in several specialized fields, including computer-aided design and drafting (CADD), 3-D modeling, and rendering. The AET program offers an Occupational Endorsement Certificate in CAD for Building Construction, four Undergraduate Certificates in the specialized areas of Architectural Drafting, Civil Drafting, Mechanical & Electrical Drafting, and Structural Drafting, and an Associate of Applied Science (AAS) degree in Architectural and Engineering Technology which encompasses all of these fields.

Students are trained to become skilled workers on architectural and engineering design teams. AET certificate and degree graduates are employed as drafters or technicians and work in private industry as well as municipal, state, or federal agencies. Drafters and technicians work in support of professional architects and engineers to produce the technical drawings used by construction workers to build everything from roads and bridges, to homes and office buildings, to oil and gas pipelines. Their drawings provide the visual guidelines that show the technical details of the products and structures to be constructed. These drawings specify dimensions, materials to be used, and procedures to be followed. Drafters and technicians fill in technical details using drawings, rough sketches, specifications, codes, and calculations previously made by engineers, surveyors, or architects. Drafters and technicians use technical handbooks, tables, calculators, and computers to do this. Because many drafters and technicians may assist in design work, creativity is desirable. Good communication skills and the ability to work well with others are also important since they are part of a team of architects, engineers, and other technicians.

The AET AAS degree requires four to five semesters to complete.

AET Undergraduate Certificates require two to three semesters to complete. The AET Occupational Endorsement Certificate requires one to two semesters to complete.

The AET faculty can assist students with curriculum planning to prepare for the Associate Technician Qualifying Examination offered by the National Institute for the Certification of Engineering Technicians (NICET), and for Construction Specification Institute (CSI) certification examinations. Courses are also available through the CDT department to help intern architects prepare for the Architects Registration Examination. Although courses taken may apply to the first two years of a four-year degree program (i.e., BS in Technology), the AET AAS degree should not be considered preparatory or a substitute for professional degree programs in architecture or engineering. Students pursuing a four-year degree in engineering should contact the School of Engineering at UAA. Those students who anticipate pursuing a degree in architecture should contact the AET program for academic counseling prior to registration.

In addition to tuition and fees, student should expect to purchase books and equipment required for each course.
1. Complete the following courses:
   - AET A101 Fundamentals of CADD for Building Construction (4)
   - AET A181 Intermediate CADD for Building Construction (4)
   and one of the following:
   - AET A282 Advanced CADD Techniques (4)
   - AET A283 CADD Software Customization (3)

2. A minimum of 11 credits are required for the occupational endorsement certificate.

The choice of AET A282 Advanced CADD Techniques is for students who wish to pursue skills for advanced rendering and animation within the software environment, while the AET A283 CADD Software Customization is for students who wish to pursue skills for developing and managing unique software environments, tools, and solutions outside of the default capabilities of the software.

**ADMISSION REQUIREMENTS**

See occupational endorsement program admission requirements in chapter 7.

**OCCUPATIONAL ENDORSEMENT CERTIFICATE, CAD FOR BUILDING CONSTRUCTION**

Attention should be specifically directed to the proof of eligibility for placement in MATH A105 and ENGL A111 as a registration restriction for the introductory classes within the programs.

**OUTCOMES**

At the completion of this program students are able to demonstrate:

1. Proficiency in the use of computer-aided design and drafting software in the creation and modification of construction documentation.
2. Proficiency in the management of the computer-aided design and drafting software environment for the accurate application and integration of industry standards.

**ADMISSION REQUIREMENTS**

See occupational endorsement program admission requirements in chapter 7.

**REQUIREMENTS**

In order to receive the occupational endorsement certificate offered by the AET Department, students must achieve a grade of C or better in all courses required for the certificate.

**UNDERGRADUATE CERTIFICATE, ARCHITECTURAL DRAFTING**

**PROGRAM OUTCOMES**

The specific educational outcomes that support the program objectives are to produce graduates who are able to:

- Demonstrate skill and proficiency in computer-aided drafting and design.
- Demonstrate knowledge of drafting conventions including symbols, linetypes, lineweights, and dimension styles as applicable to architectural drafting.
- Visualize and translate drawing information to actual physical objects and completed architectural projects.
- Understand the role and purpose of building codes and standards as they pertain to the life, health, and safety of the public.
- Understand the role, duties, and responsibilities of the members of the design team, including the working relationship between technicians and architects.
- Understand the architectural elements of the construction document set and the role of construction documents as communication tools for the construction contract.
- Understand the construction process from the transformation of an idea or need into a completed architectural project.
- Demonstrate communication skills to be successful in employment environment.
- Demonstrate critical thinking and problem solving skills in the employment environment.

**CERTIFICATE REQUIREMENTS**

1. Complete the following required courses:
   - AET A101 Fundamentals of CADD for Building Construction (4)
   - AET A102 Methods of Building Construction (3)
   - AET A121 Architectural Drafting (3)
   - AET A123 Codes and Standards (3)
MECHANICAL AND ELECTRICAL DRAFTING

CIVIL DRAFTING

• Demonstrate knowledge of drafting conventions including symbols, linetypes, lineweights, and dimension styles as applicable to civil drafting.
• Visualize and translate drawing information to actual physical objects and completed civil construction projects.
• Understand the role and purpose of building codes and standards as they pertain to the life, health, and safety of the public.
• Understand the role, duties, and responsibilities of the members of the design team, including the working relationship between technicians and civil engineers.
• Understand the civil elements of the construction document set and the role of construction documents as communication tools for the construction contract.
• Understand the construction process from the transformation of an idea or need into a completed civil project.
• Demonstrate communication skills to be successful in employment environment.
• Demonstrate critical thinking and problem solving skills in the employment environment.

CIVIL DRAFTING CERTIFICATE REQUIREMENTS

1. Complete the following required courses:
   - AET A101 Fundamentals of CADD for Building Construction 4
   - AET A102 Methods of Building Construction 3
   - AET A111 Civil Drafting 3
   - AET A181 Intermediate CADD for Building Construction 4
   - AET A213 Civil Technology 4
   - AET A286 Design Project 4
   - ENGL A111 Methods of Written Communication 3
   - MATH A105 Intermediate Algebra 3
   - Oral communication course 3

   Choose from one of the following:
   - COMM A111, COMM A235, COMM A237, or COMM A241
2. A total of 31 credits is required for the certificate.

MECHANICAL AND ELECTRICAL DRAFTING CERTIFICATE REQUIREMENTS

1. Complete the following required courses:
   - AET A101 Fundamentals of CADD for Building Construction 4
   - AET A102 Methods of Building Construction 3
   - AET A142 Mechanical & Electrical Technology 4
   - AET A143 Mechanical & Electrical Drafting 3
   - AET A181 Intermediate CADD for Building Construction 4
   - AET A286 Design Project 4
   - ENGL A111 Methods of Written Communication 3
   - MATH A105 Intermediate Algebra 3
   - Oral communication course 3

   Choose from one of the following:
   - COMM A111, COMM A235, COMM A237, or COMM A241
2. A total of 31 credits is required for the certificate.

STRUCTURAL DRAFTING

• Demonstrate knowledge of drafting conventions including symbols, linetypes, lineweights, and dimension styles as applicable to structural drafting.
• Visualize and translate drawing information to actual physical objects and completed structural construction projects.
• Understand the role and purpose of building codes and standards as they pertain to the life, health, and safety of the public.
• Understand the role, duties, and responsibilities of the members of the design team, including the working relationship between technicians and structural engineers.
• Understand the structural elements of the construction document set and the role of construction documents as communication tools for the construction contract.
• Understand the construction process from the transformation of an idea or need into a completed structural project.
• Demonstrate communication skills to be successful in employment environment.
• Demonstrate critical thinking and problem solving skills in the employment environment.

STRUCTURAL DRAFTING CERTIFICATE REQUIREMENTS

1. Complete the following required courses:
   - AET A101 Fundamentals of CADD for Building Construction 4
   - AET A102 Methods of Building Construction 3
   - AET A142 Mechanical & Electrical Technology 4
   - AET A143 Mechanical & Electrical Drafting 3
   - AET A181 Intermediate CADD for Building Construction 4
   - AET A286 Design Project 4
   - ENGL A111 Methods of Written Communication 3
   - MATH A105 Intermediate Algebra 3
   - Oral communication course 3

   Choose from one of the following:
   - COMM A111, COMM A235, COMM A237, or COMM A241
2. A total of 31 credits is required for the certificate.

UNDERGRADUATE CERTIFICATE, CIVIL DRAFTING

PROGRAM OUTCOMES

The specific educational outcomes that support the program objectives are to produce graduates who are able to:

• Demonstrate knowledge of drafting conventions including symbols, linetypes, lineweights, and dimension styles as applicable to civil drafting.
• Demonstrate communication skills to be successful in employment environment.
• Understand the construction process from the transformation of an idea or need into a completed civil project.
• Demonstrate critical thinking and problem solving skills in the employment environment.

UNDERGRADUATE CERTIFICATE, MECHANICAL AND ELECTRICAL DRAFTING

PROGRAM OUTCOMES

The specific educational outcomes that support the program objectives are to produce graduates who are able to:

• Demonstrate knowledge of drafting conventions including symbols, linetypes, lineweights, and dimension styles as applicable to the mechanical/electrical drafting.
• Demonstrate skill and proficiency in computer-aided drafting and design.
• Demonstrate critical thinking and problem solving skills in the employment environment.
STRUCTURAL DRAFTING CERTIFICATE REQUIREMENTS

1. Complete the following required courses:
   - AET A101 Fundamentals of CADD for Building Construction 4
   - AET A102 Methods of Building Construction 3
   - AET A131 Structural Drafting 3
   - AET A181 Intermediate CADD for Building Construction 4
   - AET A231 Structural Technology 4
   - AET A286 Design Project 4
   - ENGL A111 Methods of Written Communication 3
   - MATH A105 Intermediate Algebra 3
   - Oral communication course 3
   Choose from one of the following:
   - COMM A111, COMM A235, COMM A237, or COMM A241

2. A total of 31 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, ARCHITECTURAL AND ENGINEERING TECHNOLOGY

PROGRAM OUTCOMES

The specific educational outcomes that support the program objectives are to produce graduates who are able to:

- Demonstrate skill and proficiency in computer-aided drafting and design.
- Demonstrate knowledge of drafting conventions including symbols, linetypes, linewidths, and dimension styles as applicable to the design discipline.
- Visualize and translate drawing information to actual physical objects and completed construction components.
- Understand the role and purpose of building codes and standards as they pertain to the life, health, and safety of the public.
- Understand the role, duties, and responsibilities of the members of the design team, including the working relationship between technicians and professionals.
- Understand the elements of the construction document set and the role of construction documents as communication tools for the construction contract.
- Understand the construction process from the transformation of an idea or need into a completed project.
- Demonstrate communication skills to be successful in employment environment.
- Demonstrate critical thinking and problem solving skills in the employment environment.

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Program Admission Requirements at the beginning of Chapter 7.

COURSE REQUIREMENTS

Certain courses require prerequisites or faculty permission. Call (907) 786-6465 for further information.

GRADUATION REQUIREMENTS

In order to receive the AAS degree offered by the AET Department, students must achieve a grade of C or better in all courses required for the AAS degree.

ADVISING

Certain courses require prerequisites or faculty permission. Call (907) 786-6465 for further information.

ACADEMIC PROGRESS

In order to receive the AAS degree offered by the AET Department, students must achieve a grade of C or better in all courses required for the AAS degree.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses (45 credits):
   - AET A101 Fundamentals of CADD for Building Construction 4
   - AET A102 Methods of Building Construction 3
   - AET A111 Civil Drafting 3
   - AET A121 Architectural Drafting 3
   - AET A123 Codes & Standards 3
   - AET A131 Structural Drafting 3
   - AET A142 Mechanical & Electrical Technology 4
   - AET A143 Mechanical & Electrical Drafting 3
   - AET A181 Intermediate CADD for Building Construction 4
   - AET A213 Civil Technology 4
   - AET A231 Structural Technology 4
   - AET A286 Design Project 4
   - MATH A105 Intermediate Algebra 3

2. Electives 3

3. A total of 60 credits is required for the degree.

   *This course satisfies the General Course Requirements.

RECOMMENDED COURSE SEQUENCE

Not all AET courses are offered every semester. Students should consult the faculty in the AET program for assistance in designing their course of study to ensure that university and major degree requirements are understood and followed. The sequence for a particular program is based on the semester of admission to the program and is available on the department's webpage at: www.uaa.alaska.edu/ctc/programs/cdt/aet.

FACULTY

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ARMY ROTC

University Center (UC) 141, phone (907) 229-8990, fax (907) 786-6401

The Army Reserve Officers' Training Corps (ROTC) program is America's primary officer training program. Army ROTC in a cooperative effort by the United States Army and UAA educate, train, and prepare students to serve as officers in the regular Army, Army Reserve, or Army National Guard. Army ROTC has two-, three-, and four-year programs that lead to a commission as a second lieutenant. Army ROTC is divided into a basic course for freshmen and sophomores and the advanced course for juniors and seniors. Programs and courses can be adjusted to meet specific needs of individual students who desire to enroll but are past their freshman year. The courses focus on military history, Army force structure, leadership, time
and stress management, decision-making through academic instruction, and operations in the contemporary operating environment. Non-contracted students may take the 100- and 200-level academic courses without incurring a military obligation. However, certain courses require prerequisites or faculty permission.

The leadership and physical training laboratory provides practical military training. Activities include staff rides to Army bases, physical fitness training, conducting drill and ceremony, and leadership exercises. To attend the leadership laboratory, UAA students must not have a medical condition that would preclude service in the Armed Forces.

To become an officer through Army ROTC, a student must, at a minimum, complete the two-year program (300- and 400-level courses plus leadership laboratory), the Leader Development and Assessment Course, and earn a baccalaureate degree in any major from UAA. Upon graduation and commissioning, new lieutenants must serve eight years in the regular Army, Army Reserves, and/or Army National Guard.

Three hours of mandatory physical training (PT) are required each week along with a one hour lab. Times and location of PT sessions to be announced.

**Requirements**

**Two-Year Program**

1. Available to UAA students with two years remaining until graduation. Students must take the courses listed below and complete Leader’s Training Course before starting the 300-level courses and complete Leader Development and Assessment Course before starting the 400-level courses.

   - MILS A301 Adaptive Team Leadership 3
   - MILS A302 Applied Team Leadership 3
   - MILS A401 Adaptive Leadership 3
   - MILS A402 Leadership in a Complex World 3
   - MILS A150 Army ROTC Leadership Laboratory (1) 4

2. Students take MILS A150 Army ROTC Leadership Laboratory each semester for a total of four semesters and 4 credits. Academic courses are taken in the order listed, beginning with MILS A301 Adaptive Team Leadership in the fall semester.

**Three-Year Program**

1. Available to UAA students with three years remaining until graduation. Cadets must take the courses listed below and complete Leader Development and Assessment Course before starting the 400-level courses.

   - MILS A201 Foundations of Leadership 3
   - MILS A202 Foundations of Tactical Leadership 3
   - MILS A301 Adaptive Team Leadership 3
   - MILS A302 Applied Team Leadership 3
   - MILS A401 Adaptive Leadership 3
   - MILS A402 Leadership in a Complex World 3
   - MILS A150 Army ROTC Leadership Laboratory (1) 6

2. Students take MILS A150 Army ROTC Leadership Laboratory each semester for a total of four semesters and 6 credits. Academic courses are taken in the order listed, beginning with MILS A201 Foundations of Leadership in the fall semester.

**Four-Year Program**

1. Available to UAA students with four years remaining until graduation. Cadets must take the courses listed below and complete Leader Development and Assessment Course before starting the 400-level courses.

   - MILS A101 Leadership and Personal Development 3
   - MILS A102 Introduction to Tactical Leadership 3
   - MILS A201 Foundations of Leadership 3
   - MILS A202 Foundations of Tactical Leadership 3
   - MILS A301 Adaptive Team Leadership 3
   - MILS A302 Applied Team Leadership 3

**Scholarships and Incentive Payments**

Army ROTC has numerous scholarship and incentive programs for high school seniors planning to enroll at UAA and for college students currently enrolled or planning to enroll at UAA. All students receiving a scholarship or incentive payment must be a full-time student (at least 12 semester credits for undergraduate or 9 semester credits for graduate students).

1. High school seniors can compete for Army ROTC scholarships that pay tuition, fees, and books at any university with an Army ROTC program. The scholarship includes a monthly stipend. Students can obtain applications from www.goarmy.com/rotc/scholarships.jsp, the UAA Army ROTC office or from a high school guidance counselor. Applications must be postmarked no later than January 10 of a student’s senior year. High school seniors may also compete for an Army ROTC scholarship locally at the UAA level. Contact UAA Army ROTC for more information.

2. Army ROTC at UAA has several scholarship options for college students. These scholarships cover tuition, fees, and books for freshmen, sophomores, juniors, and seniors. Scholarships also include a monthly stipend. Students compete for these scholarships during the academic term prior to activation. For example, a fall 100-level student can compete for a scholarship that would start in the spring of the student’s 100-level year.

3. All scholarships and incentives are subject to federally mandated age restrictions. Contact Army ROTC at UAA or www.goarmy.com/rotc/scholarships.jsp for more information.

**Commissioning**

After completing the Army ROTC program, graduating from UAA, and passing a commissioning physical, cadets will receive a commission as a second lieutenant in the United States Army.

1. Second lieutenants will usually begin their Basic Officer Leaders Course Phase II within one year of commissioning. Students compete nationally for their branch based on a combined score consisting of their GPA, on-campus evaluations, and Leader Development and Assessment Course evaluation. The United States Army has 17 branches with multiple careers in each one. Students receive the branch assignments during the 400-level year and will serve four years in the United States Army after commissioning.

2. Students may also compete for medical and law school appointments. Scholarships cover tuition, fees, and books for a student’s undergraduate and medical school programs. Army ROTC at UAA has more information on this highly competitive program.

**Faculty**

*Captain Thomas A. Elmore, Assistant Professor/Chair*  
*Master Sergeant Donald G. Ramey, Assistant Professor*
AUTOMOTIVE AND DIESEL TECHNOLOGY

Auto & Diesel Technology Building (ADT), Room 207, (907) 786-1485
http://www.uaa.alaska.edu/ctc/transportation

State of Alaska and federal Departments of Labor projections show an above average increase in the need for qualified maintenance and repair technicians in the automotive and heavy duty transportation and equipment industries. Consumer demands for increased performance and fuel economy, coupled with government regulations on vehicle emissions, are driving rapid developments in technology. The Automotive and Diesel Department offers AAS degrees in Automotive Technology and in Heavy Duty Transportation and Equipment that are designed to equip students with knowledge and skills necessary to meet the needs of employers in the industry. Both the AAS degrees and undergraduate certificate programs are accredited by the National Institute for Automotive Service Excellence.

There are three options for the AAS Automotive Technology degree. The General Automotive Technology option for the AAS degree and undergraduate certificate are designed to prepare students for a career in the automotive maintenance and repair industry. Curriculum design is based on automotive task lists developed by the National Institute for Automotive Excellence. The Ford ASSET option for the AAS degree is designed to prepare students for a career in Ford and Lincoln-Mercury dealerships. Students train on current technology vehicles and components donated by Ford Motor Company. The General Motors ASE® option for the AAS degree is designed to prepare students for a career in General Motors dealerships. Students train on current technology vehicles and components donated by General Motors Corporation. Graduates from the two corporate-sponsored AAS degree options receive factory credentials upon graduation. These credentials are recognized by the respective dealerships across the country.

The AAS degree and Undergraduate Certificate in Heavy Duty Transportation and Equipment (HDTE) are designed to prepare students to work as repair and maintenance technicians in the HDTE industry. Much of the curriculum is based on medium and heavy duty maintenance and repair task lists developed by the National Institute for Automotive Service Excellence. Students train on vehicles, equipment, and components provided by or procured from major manufacturers of medium and heavy duty trucks and equipment.

OCCUPATIONAL ENDORSEMENT CERTIFICATES, AUTOMOTIVE

CERTIFICATE DESCRIPTION AND OUTCOMES

Four occupational endorsement certificate programs are available: Automotive Electrical; Automotive Brakes, Suspension and Alignment; Automotive Power Trains; and Automotive Engine Performance. These programs allow students to develop focused skill sets in high-demand areas of automotive maintenance and repair. At the completion of this certificate program, students are able to demonstrate:

1. Proficiency in diagnosis and repair of electrical/electronic systems OR automotive brakes, suspension, and alignment OR automotive power trains OR automotive engine performance.
2. Specialized employability skills for maintenance and repair technicians.

ADMISSION REQUIREMENTS

See Occupational Endorsement Certificate admissions requirements in Chapter 7 of this catalog.

ADVISING

Students should consult the ADT faculty for assistance in curriculum planning toward the occupational endorsement certificate.

COMPUTER COMPETENCY REQUIREMENT

Automotive Technology Occupational Endorsement Certificates require demonstrated computer competency. Computer competency may be demonstrated in any of the following ways:

1. A 3-credit course in a computer language or an introductory course in data processing or microcomputers.
2. Work-related experience verifying computer competency as approved by the faculty advisor.
3. Self-initiated computer competency as approved by the faculty advisor.

OCCUPATIONAL ENDORSEMENT CERTIFICATE REQUIREMENTS

1. Satisfy the General University Requirements for Occupational Endorsement Certificates at the beginning of this chapter.
2. Satisfy the program requirements for the emphasis area selected below.

A. Automotive Electrical

1) Complete the following courses:
   - ADT A102 Introduction to Automotive Technology
   - ADT A121 Basic Electrical Systems
   - ADT A131 Auto Electrical II
   - ADT A195 Automotive Practicum I (1-6)
   - ADT A227 Auto Electrical III
   - A total of 18 credits is required for the occupational endorsement certificate.

B. Automotive Brakes, Suspension and Alignment

1) Complete the following courses:
   - ADT A102 Introduction to Automotive Technology
   - ADT A121 Basic Electrical Systems
   - ADT A131 Auto Electrical II
   - ADT A150 Brake Systems
   - ADT A162 Suspension and Alignment
   - ADT A195 Automotive Practicum I (1-6)
   - A total of 23 credits is required for the occupational endorsement certificate.

C. Automotive Power Trains

1) Complete the following courses:
   - ADT A102 Introduction to Automotive Technology
   - ADT A160 Manual Drive Trains and Axles
   - ADT A260 Electronic and Automatic Transmissions
   - ADT A121 Basic Electrical Systems
   - ADT A131 Auto Electrical II
   - ADT A195 Automotive Practicum I (1-6)
   - A total of 22 credits is required for the occupational endorsement certificate.

D. Automotive Engine Performance

1) Complete the following courses:
   - ADT A102 Introduction to Automotive Technology
   - ADT A121 Basic Electrical Systems
   - ADT A122 Engine Theory and Diagnosis
   - ADT A131 Auto Electrical II
   - ADT A140 Automotive Engine Repair
   - ADT A202 Auto Fuel and Emissions Systems
   - ADT A222 Engine Performance
   - ADT A295 Automotive Practicum II
   - A total of 25 credits is required for the occupational endorsement certificate.
AUTOMOTIVE TECHNOLOGY

These programs are modeled after a variety of very successful corporate training programs. Each program is four semesters long. The programs incorporate a prearranged, supervised, evaluated practicum in each of the first three semesters, with the possibility of an additional practicum during the last semester. Many students also choose to complete a summer practicum while enrolled in the program.

Students experience training on a wide variety of modern domestic and imported vehicles, light trucks, and vans. Laboratory and shop objectives are met on training vehicles, components, and live shop projects. Automotive Technology graduates have been placed in dealerships, independent shops, service stations, mass merchandisers, aviation ground support, and fleet repair facilities. Employers require a current vehicle operator’s license and a good driving record. The student should have physical capabilities required of the trade which typically include standing long hours; lifting heavy objects; contacting hazardous materials; operating machinery; exposure to noise, heat, cold, vapors, and other workplace hazards; manipulating tools; and working with small parts in confined and awkward positions.

Technicians must be able to distinguish colors in minimal light, transcribe numbers up to 17+ digits, and work up to 10 hours a day, six days per week. Equal opportunities are available for men and women.

UNDERGRADUATE CERTIFICATE, AUTOMOTIVE TECHNOLOGY

CERTIFICATE DESCRIPTION AND OUTCOMES

This certificate program prepares students to understand the theory of, diagnose, and repair engines, transmissions, transaxles, suspension, steering, brake systems, electrical/electronic systems, heating and air conditioning systems, as well as fuel and ignition systems of modern vehicles. At the completion of this undergraduate certificate program, students are able to:

• Demonstrate technical knowledge and skills necessary for success in the automotive maintenance and repair industry.
• Demonstrate academic proficiency necessary to pass national examinations.
• Demonstrate proficiency in performing occupationally related tasks in a professional setting.
• Integrate knowledge from diverse areas to develop effective diagnostic and repair strategies involving complex systems.
• Demonstrate effective oral and written communication skills necessary for success in the workplace.

ADMISSION REQUIREMENTS

Satisfy the certificate admissions requirements in Chapter 7 of this catalog.

ADVISING

Students should consult the ADT faculty for assistance in curriculum planning toward the undergraduate certificate.

COMPUTER COMPETENCY REQUIREMENT

The Automotive Technology certificate requires demonstrated computer competency. Computer competency may be demonstrated in any of the following ways:

1. A 3-credit course in a computer language or an introductory course in data processing or microcomputers.
2. Work-related experience verifying computer competency as approved by the faculty advisor.
3. Self-initiated computer competency as approved by the faculty advisor.

UNDERGRADUATE CERTIFICATE REQUIREMENTS

1. Satisfy the general university requirements for Undergraduate Certificates at the beginning of this chapter.
2. Complete the Major Requirements listed below.

MAJOR REQUIREMENTS

1. Complete the following required courses:

   **First Semester**
   - ADT A102 Introduction to Automotive Technology 3
   - ADT A121 Basic Electrical Systems 3
   - ADT A131 Auto Electrical II 3
   - ADT A150 Brake Systems 4
   - ADT A195 Automotive Practicum (1-6) 2

   **Second Semester**
   - ADT A122 Engine Theory and Diagnosis 3
   - ADT A160 Manual Drive Trains and Axles 4
   - ADT A162 Suspension and Alignment 4
   - ADT A195 Automotive Practicum (1-6) 2

   **Third Semester**
   - ADT A140 Automotive Engine Repair 3
   - ADT A225 Auto Heating and A/C 3
   - ADT A227 Auto Electrical III 3
   - ADT A195 Automotive Practicum (1-6) 2

   **Fourth Semester**
   - ADT A202 Fuel and Emissions 4
   - ADT A222 Engine Performance 3
   - ADT A260 Electronic & Automatic Transmissions (3) 3
   - or
   - ADT A295 Automotive Practicum II (3)

2. A total of 49 credits is required for the undergraduate certificate.

ASSOCIATE OF APPLIED SCIENCE, AUTOMOTIVE TECHNOLOGY

The Associate of Applied Science in Automotive Technology is offered with three options: General Automotive, Ford ASSET and General Motors ASEP. Each option has different admissions requirements based on the policies of the program sponsors.

Students admitted to the degree program in any option complete the same courses with the exception of their final semester. Students in the General Automotive option may complete either ADT A260 or ADT A295. Students in either the Ford ASSET option or the General Motors ASEP option must complete both ADT A260 and ADT A295.

DEGREE DESCRIPTION AND OUTCOMES

This associate’s degree program prepares students to understand the theory of, diagnose, and repair engines, transmissions, transaxles, suspension, steering, brake systems, electrical/electronic systems, heating and air conditioning systems, as well as fuel and ignition systems of modern vehicles. At the completion of this Associate of Applied Science degree program, students are able to:

• Demonstrate technical knowledge and skills necessary for success in the automotive maintenance and repair industry.
• Demonstrate academic proficiency necessary to pass national examinations.
• Demonstrate proficiency in performing occupationally related tasks in a professional setting.
• Integrate knowledge from diverse areas to develop effective diagnostic and repair strategies involving complex systems.
• Demonstrate effective oral and written communication skills necessary for success in the workplace.
ADMISSION REQUIREMENTS
GENERAL AUTOMOTIVE OPTION
Specific admission requirements apply to this option. See department for criteria.

AUTOMOTIVE TECHNOLOGY
FORD ASSET OPTION
The ASSET (Automotive Student Services Educational Training) path for the Automotive Technology AAS degree is a joint venture with Ford Motor Company and sponsoring Ford Lincoln-Mercury dealerships. Admission to Ford ASSET is only in odd-numbered years and has specific admission requirements. Please contact the Ford ASSET advisor, the department or sponsoring dealership for details. Students enrolled in Ford ASSET attend class for the first 10 weeks of the semester and paid work experience the balance of the semester. General Education courses (English, Communications, etc.) are conducted on a half semester format by special arrangement through the College of Arts and Sciences.

ADMISSION REQUIREMENTS
FORD ASSET OPTION
Specific admission requirements apply to this option. Student selection occurs up to three months prior to the start of the program. Accepted students will have met admission criteria and been selected by a sponsoring Ford Lincoln-Mercury dealership.

AUTOMOTIVE TECHNOLOGY
GENERAL MOTORS ASEP OPTION
The ASEP (Automotive Student Education Program) option for the Automotive Technology AAS degree is a joint venture with General Motors Company and its sponsoring General Motors dealerships. Admission to General Motors ASEP is only in even-numbered years and has specific admission requirements. Please contact the General Motors ASEP advisor, the department or sponsoring dealership for details. Students enrolled in General Motors ASEP attend class for the first 10 weeks of the semester and complete paid work experience the balance of the semester. General Education courses (English, Communications, etc.) are conducted on a condensed semester format by special arrangement through the College of Arts and Sciences.

ADMISSION REQUIREMENTS
GENERAL MOTORS ASEP OPTION
Specific admission requirements apply to this option. See department for criteria.

AUTOMOTIVE TECHNOLOGY
FORD ASSET OPTION
The ASSET (Automotive Student Services Educational Training) path for the Automotive Technology AAS degree is a joint venture with General Motors Company and sponsoring General Motors dealerships. Admission to Ford ASSET is only in odd-numbered years and has specific admission requirements. Please contact the Ford ASSET advisor, the department or sponsoring dealership for details. Students enrolled in Ford ASSET attend class for the first 10 weeks of the semester and paid work experience the balance of the semester. General Education courses (English, Communications, etc.) are conducted on a half semester format by special arrangement through the College of Arts and Sciences.

ADMISSION REQUIREMENTS
FORD ASSET OPTION
Specific admission requirements apply to this option. Student selection occurs up to three months prior to the start of the program. Accepted students will have met admission criteria and been selected by a sponsoring Ford Lincoln-Mercury dealership.

AUTOMOTIVE TECHNOLOGY
GENERAL MOTORS ASEP OPTION
The ASEP (Automotive Student Education Program) option for the Automotive Technology AAS degree is a joint venture with General Motors Company and its sponsoring General Motors dealerships. Admission to General Motors ASEP is only in even-numbered years and has specific admission requirements. Please contact the General Motors ASEP advisor, the department or sponsoring dealership for details. Students enrolled in General Motors ASEP attend class for the first 10 weeks of the semester and complete paid work experience the balance of the semester. General Education courses (English, Communications, etc.) are conducted on a condensed semester format by special arrangement through the College of Arts and Sciences.

ADMISSION REQUIREMENTS
GENERAL MOTORS ASEP OPTION
Specific admission requirements apply to this option. See department for criteria.
Unergraduate Certificate, Heavy Duty Transportation and Equipment

Certificate Description and Outcomes
The Heavy Duty Transportation and Equipment (HDTE) Undergraduate Certificate is designed to teach students the skills needed to be successful as technicians in the medium and heavy duty truck and equipment service industry. The undergraduate certificate may be completed in five semesters which includes one summer semester of practicum. Laboratory experiences are performed on equipment and components currently used in the heavy duty transportation, construction and power generation industries.

Career opportunities for HDTE graduates include manufacturer and independent repair and maintenance shops, fleets, construction, mining, aviation ground support, and the seafood processing industry. Employers require technicians to be drug free and physically fit, and to have a current vehicle operator’s license with a good driving record. Equal opportunities are available for men and women.

This undergraduate certificate program prepares students to understand the theory of, diagnose, and repair diesel engines, as well as, medium and heavy-duty drive trains, pneumatic and hydraulic brake systems, suspension steering, electrical/electronic systems, and heating and air conditioning systems on medium and heavy duty vehicle applications. At the completion of this undergraduate certificate program, students are able to:

- Demonstrate technical knowledge and skills necessary for success in the heavy-duty diesel maintenance and repair industry.
- Demonstrate academic proficiency necessary to pass national examinations.
- Demonstrate proficiency in performing occupationally related tasks in a professional setting.
- Integrate knowledge from diverse areas to develop effective diagnostic and repair strategies involving complex systems.
- Demonstrate effective oral and written communication skills necessary for success in the workplace.

Admission Requirements
Satisfy the requirements for Admission to Undergraduate Certificate Programs found in Chapter 7 of this catalog.

Students must complete the following admission requirements:

1. Submit UAA Undergraduate Application for Admission for the Heavy-Duty Transportation and Equipment Undergraduate Certificate.
2. Document placement at the MATH A055 entry-level or higher. For testing, schedule contact Advising and Testing at (907) 786-4500.
3. Document placement at the ENGL A111 entry-level or higher. For testing, schedule contact Advising and Testing at (907) 786-4500.
4. Demonstrate welding competency using one of the following methods:
   a. A course in welding (see faculty advisor for approved courses).
   b. Documented work experience verifying welding competency as approved by the faculty advisor.
   c. Demonstrated competency in welding as approved by the faculty advisor.
5. Demonstrate computer competency using one of the following methods:
   a. A course in computers (see faculty advisor for approved courses).
   b. Documented work experience verifying computer competency as approved by the faculty advisor.
   c. Demonstrated competency in computers as approved by the faculty advisor.

Advising
Students should consult the ADT faculty for assistance in curriculum planning toward the undergraduate certificate.

Certificate Requirements
1. Complete the General University Requirements for Certificates listed at the beginning of this chapter for Certificates.
2. Complete the Major Requirements listed here.

Major Requirements
1. Complete these required courses:
   - ADT A121 Basic Electrical Systems 3
   - ADT A131 Auto Electrical II 3
   - ADT A151 Medium/Heavy-Duty Engine Repair 3
   - ADT A152 Heavy-Duty Suspension and Steering 4
   - ADT A153 Medium/Heavy-Duty Engine Lab 3
   - ADT A155 Heavy-Duty Brake Systems 4
   - ADT A156 Heavy-Duty Maintenance Inspection 6
   - ADT A195 Automotive Practicum I 1-6
   - ADT A225 Auto Heating and A/C 3
   - ADT A227 Auto Electrical III 3
   - ADT A266 Heavy Duty Power Systems Lab 4
   - ADT A267 Heavy Duty Fuel Systems 4
   - ADT A268 Hydraulics and Pneumatics 4
   - ADT A269 Heavy Duty Drive Trains 4
2. A total of 51 credits is required for the Undergraduate Certificate.

Associate of Applied Science, Heavy Duty Transportation and Equipment

Degree Description and Outcomes
The Heavy Duty Transportation and Equipment (HDTE) AAS degree is designed to teach students the skills needed to be successful as technicians in the medium and heavy duty truck and equipment service industry. The AAS degree may be completed in five semesters which includes one summer semester of practicum. Laboratory experiences are performed on equipment and components currently used in the heavy duty transportation, construction and power generation industries.

Career opportunities for HDTE graduates include manufacturer and independent repair and maintenance shops, fleets, construction, mining, aviation ground support, and the seafood processing industry. Employers require technicians to be drug free and physically fit, and to have a current vehicle operator’s license with a good driving record. Equal opportunities are available for men and women.

This Associate of Applied Science degree program prepares students to understand the theory of, diagnose, and repair diesel engines, as well as, medium and heavy-duty drive trains, pneumatic and hydraulic brake systems, suspension steering, electrical/electronic systems, and heating and air conditioning systems on medium and heavy duty vehicle applications. At the completion of this undergraduate certificate program, students are able to:

- Demonstrate technical knowledge and skills necessary for success in the heavy-duty diesel maintenance and repair industry.
- Demonstrate academic proficiency necessary to pass national examinations.
- Demonstrate proficiency in performing occupationally related tasks in a professional setting.
- Integrate knowledge from diverse areas to develop effective diagnostic and repair strategies involving complex systems.
- Demonstrate effective oral and written communication skills necessary for success in the workplace.
ADMISSION REQUIREMENTS
Satisfy the requirements for Admission to Associate Degree Programs found in Chapter 7 of this catalog. Students must complete the following admission requirements:

1. Submit UAA Undergraduate Application for Admission for the Heavy-Duty Transportation and Equipment Associate of Applied Science.
2. Document placement at the MATH A055 entry-level or higher. For testing schedule contact Advising and Testing at (907) 786-4500.
3. Document placement at the ENGL A111 entry-level or higher. For testing schedule contact Advising and Testing at (907) 786-4500.
4. Demonstrate welding competency using one of the following methods:
   a. A course in welding (see faculty advisor for approved courses).
   b. Documented work experience verifying welding competency as approved by the faculty advisor.
   c. Demonstrated competency in welding as approved by the faculty advisor.
5. Demonstrate computer competency using one of the following methods:
   a. A course in computers (see faculty advisor for approved courses).
   b. Documented work experience verifying computer competency as approved by the faculty advisor.
   c. Demonstrated competency in computers as approved by the faculty advisor.

ADVISIGN
Students should consult the ADT faculty for assistance in curriculum planning toward the Associate of Applied Science degree.

DEGREE REQUIREMENTS
1. Complete the General University Requirements for Associate Degrees listed at the beginning of this chapter.
2. Complete the General Course Requirements for Associate of Applied Science Degrees listed at the beginning of this chapter.
3. Complete the Major Requirements listed here.

MAJOR REQUIREMENTS
1. Complete these required courses:
   ADT A121 Basic Electrical Systems 3
   ADT A131 Auto Electrical II 3
   ADT A151 Medium/Heavy-Engine Repair 3
   ADT A152 Heavy-Duty Suspension and Steering 4
   ADT A153 Medium/Heavy Engine Lab 3
   ADT A155 Heavy Duty Brake Systems 4
   ADT A156 Heavy Duty Maintenance Inspection 6
   ADT A195 Automotive Practicum I (1-6) 6
   ADT A225 Auto Heating and A/C 3
   ADT A227 Auto Electrical III 3
   ADT A266 Heavy Duty Power Systems Lab 4
   ADT A267 Heavy Duty Fuel Systems 4
   ADT A268 Hydraulics and Pneumatics 4
   ADT A269 Heavy Duty Drive Trains 4
2. A total of 66 credits is required for the AAS degree.

FACULTY
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AVIATION TECHNOLOGY
Aviation Complex (AVNC), 2811 Merrill Field Drive, (907) 786-7200
www.uaa.alaska.edu/ctc/aviation

The Aviation Technology Division (ATD) is a component of the University of Alaska Anchorage Community and Technical College and is located at the Aviation Technology Center on Merrill Field Airport, approximately two miles north of the UAA main campus. The mission of the ATD is to enhance, promote, and provide quality aviation education, research, and service worldwide. Individuals employed in the aviation industry desiring to update skills and knowledge may take selected courses; these individuals must contact the ATD office about prerequisites and other lab or course requirements. The ATD supplies graduates for skilled and professional aviation-related positions through five academic programs of study:

The Air Traffic Control (ATC) program provides enhanced career opportunities for graduates, preparing students for careers in air traffic in both the private and public sectors. It is one of 23 ATC programs in colleges and universities nationwide approved by the Federal Aviation Administration as a participant in the Collegiate Training Initiative (CTI) where qualified graduates of the program are eligible for direct hire by the Federal Aviation Administration. The AAS degree provides students with basic entry level requirements, while the Bachelor of Science in Aviation Technology (BSAT) degree with an Air Traffic Control emphasis is available for students wishing to prepare for management positions in the air traffic career field.

The Aviation Administration/Management program prepares students for various administration and management positions within the aviation industry. The AAS degree in Aviation Administration provides an introduction to administrative duties and requirements as well as the skills necessary to provide entry-level administrative support while the BSAT with the Aviation Management emphasis is designed to prepare graduates for management positions in all aspects of the aviation industry. This emphasis area includes courses specifically written to familiarize the student with the unique operational and management requirements of airlines, airports, and general aviation support operations.

The Aviation Maintenance Technology (AMT) program is Federal Aviation Administration (FAA) approved under Federal Aviation Regulation Part 147 and is a nationally recognized course of study designed to prepare graduates for entry into positions as maintenance technicians in general aviation, corporate aviation, airlines, or aerospace manufacturers. In addition to traditional aircraft maintenance courses, the curriculum emphasizes modern aircraft systems including electronics, composite structures, automatic controls and turbine engines.

The ATD offers two Aviation Maintenance Undergraduate Certificates, one with an Airframe and the other with a Powerplant emphasis. The FAA approved AMT undergraduate certificate programs provide all of the required content to prepare students to achieve FAA certification as Aircraft Mechanics with Airframe and/or Powerplant ratings. Upon completion of the UAA undergraduate certificate programs, students may take written, oral and practical tests that are administered by FAA designees. Those who achieve passing scores on these tests are awarded the Aircraft Mechanic Certificate with appropriate rating(s) by the FAA.

After earning either undergraduate certificate, additional study allows a student to earn an Associate of Applied Science (AAS) degree in Aviation Maintenance Technology.

The Professional Piloting program prepares graduates for careers in professional flying. Both an AAS degree and the BSAT degree with a Professional Piloting emphasis are available. The associated knowledge and airborne flight training required for pilots comprise the majority of the Professional Piloting degree core courses. The UAA professional pilot training program is certificated by the FAA under Part 141 of the Federal Aviation Regulations. Both ground and airborne flight training
are provided utilizing FAA approved curricula. UAA has modern, state-of-the-art fully equipped flight training airplanes and airplane simulators to enhance the educational experience of the students.

The Aviation Minor allows those students pursuing degrees other than aviation the opportunity to minor in Aviation Technology.

ASSOCIATE OF APPLIED SCIENCE, AIR TRAFFIC CONTROL

PROGRAM DESCRIPTION AND OUTCOMES

ATC professionals utilize knowledge of aircraft operating limitations and performance, weather and atmospheric processes, radar theory and radar systems, federal regulations, the US air traffic control system, as well as navigation methods within the National Airspace System. The AAS degree prepares students for the technical requirements of the air traffic control profession, and for entry into the FAA Academy. At the completion of this program, students will be able to:

1. Demonstrate knowledge of aircraft operating limitations and performance, including methods of air and ground navigation within the National Airspace System.
2. Demonstrate knowledge of weather and atmospheric processes and how weather phenomenon affects aviation operations.
3. Demonstrate knowledge of the relationship between federal regulations, FAA publications, and the U.S. air traffic control system.
4. Demonstrate knowledge of fundamentals of aircraft separation in radar, nonradar, and terminal environments, as well as operating techniques of ATC facilities in visual and instrument conditions.

ADMISSION REQUIREMENTS

Satisfy Associate Degree Admission Requirements in Chapter 7 of this catalog.

SPECIAL CONSIDERATIONS

UAA has no restrictions on age or physical condition of students. However, students desiring employment with the FAA should be aware of employment requirements:

1. Medical Certificate is required as depicted in FAR 65.49 and 67 Subpart C.
2. Thirty-year-old maximum age restriction for students anticipating employment in terminal or en route options.
3. For employment considerations with the FAA, students must receive a PASS score on the Air Traffic-Selection and Training (ATSAT) examination administered by the FAA. The examination provides a systematic process for continued enhancement of air traffic selection and training by testing candidates for recognition and cognitive skills required in the air traffic specialty and to identify the "composite controller."

ADVISING

All students must meet with an academic advisor in the ATD prior to beginning any program of study and are encouraged to meet each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise. Degree check sheets are available in the Aviation Technology Division office.

FEDERAL AVIATION ADMINISTRATION (FAA) RECOMMENDATION FOR EMPLOYMENT

1. To be eligible for FAA employment, student must achieve a C or better in all Air Traffic Control-specific courses: ATC A143, ATC A144, ATC A147, ATC A241/L, ATC A242/L, ATC A243/L.
2. In order to advance to 200 level ATC classes (ATC 241/L, ATC 242/L, ATC 243/L) students must have a C or better in ATC A143, ATC A144, ATC A147.
3. Students may repeat ATC A143, ATC A144, and ATC A147 only once due to performance.

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.

GENERAL COURSE REQUIREMENTS

Complete the Associate of Applied Science, General Course Requirements located at the beginning of this chapter. ENGL A212 is recommended. Any English course used to satisfy the humanities General Education Requirement must be different from the written communications requirement and have a course number higher than ENGL A111.

MAJOR REQUIREMENTS

1. Complete the following required courses:
   - ATA A102 Introduction to Aviation Technology 3
   - ATA A132 History of Aviation 3
   - ATC A143 ATC Regulations 3
   - ATC A144 ATC Flight Procedures 3
   - ATC A147 Pilot/Controller Techniques 3
   - ATC A241 Control Tower Operations 3
   - ATC A241L Control Tower Operations Lab 1
   - ATC A242 ATC Terminal Radar Procedures 3
   - ATC A242L ATC Terminal Radar Procedures Lab 1
   - ATC A243 ATC Enroute Procedures 3
   - ATC A243L ATC Enroute Procedures Lab 1
   - ATC A325 Tools for Weather Briefing 3
   - ATP A100 Private Pilot Ground School 3
   - ATP A235 Elements of Weather 3

   One of the following:
   - ATA A133 Aviation Law and Regulations (3)
   - ATA A134 Principles of Aviation Administration (3)

   One of the following:
   - ATA A233 Aviation Safety (3)
   - ATP A231 Search, Survival, and Rescue (3)
   - ATP A232 Advanced Aviation Navigation (3)
   
   *One of the following 3-4
   - MATH A105 Intermediate Algebra (3) (Note: prerequisite)
   - MATH A107 College Algebra (4) (Note: prerequisite)
   - MATH A108 Trigonometry (3) (Note: prerequisite)
   - MATH A172 Applied Finite Mathematics (3) (Note: prerequisite)
   - MATH A200 Calculus I (4) (Note: prerequisite)
   - MATH A272 Applied Calculus (3) (Note: prerequisite)

   One of the following not already taken: 3
   - ATA A133, ATA A134, ATA A233, ATA A331, ATA A425, ATP A231, ATP A232
   
   *Courses may be used to fulfill the Associate of Applied Science, General Degree Requirements.

   2. A total of 60-61 credits are required for the degree.

   3. See the Aviation Technology Division advisor for appropriate sequence of courses.

ASSOCIATE OF APPLIED SCIENCE, AVIATION ADMINISTRATION

PROGRAM DESCRIPTION AND OUTCOMES

Aviation administrators require knowledge of aircraft operating limitations and performance, weather and atmospheric processes, federal regulations, and airport operations. The AAS degree in Aviation Administration
provides an introduction to administrative duties and requirements as well as the skills necessary to provide administrative support. At the completion of this program, students will be able to:

1. Demonstrate technical knowledge of aircraft operating limitations and performance.
2. Demonstrate knowledge of aviation law and regulations, and of the legal issues affecting the aviation industry.
3. Demonstrate knowledge of the issues affecting aviation safety and safety management.
4. Demonstrate knowledge of basic business management skills and supervisory techniques.

**ADMISSION REQUIREMENTS**
Satisfy the Certificate and Associate Degree Program Admission Requirements in Chapter 7 of this catalog.

**ADVISING**
All students must meet with an academic advisor in the ATD prior to beginning any program of study and are encouraged to meet each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise. Degree check sheets are available in the Aviation Technology Division Office.

**GENERAL UNIVERSITY REQUIREMENTS**
Complete the General University Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.

**GENERAL COURSE REQUIREMENTS**
Complete the Associate of Applied Science, General Course Requirements located at the beginning of this chapter.

**MAJOR REQUIREMENTS**
1. Complete the following required courses:
   - ACCT A201 Principles of Financial Accounting 3
   - ATA A102 Introduction to Aviation Technology 3
   - ATA A132 History of Aviation 3
   - ATA A133 Aviation Law and Regulations 3
   - ATA A134 Principles of Aviation Administration 3
   - ATA A233 Aviation Safety 3
   - ATP A100 Private Pilot Ground School 3
   - ATP A235 Elements of Weather 3
   - *BA A151 Introduction to Business 3
   - BA A231 Fundamentals of Supervision 3
   - *ECON A201 Principles of Macroeconomics 3
   - *PHIL A301 Ethics 3
   - One of the following: 3
     - CIS A105 Introduction to Personal Computers and Application Software (3)
     - CIS A110 Computer Concepts in Business (3)
   - *One of the following: 3-4
     - MATH A105 Intermediate Algebra (3) *(Note: prerequisite)*
     - MATH A107 College Algebra (4) *(Note: prerequisite)*
     - MATH A108 Trigonometry (3) *(Note: prerequisite)*
     - MATH A172 Applied Finite Mathematics (3) *(Note: prerequisite)*
     - MATH A200 Calculus I (4) *(Note: prerequisite)*
     - MATH A272 Applied Calculus (3) *(Note: prerequisite)*
   - One Elective Course 3
   - *Courses may be used to fulfill the Associate of Applied Science, General Degree Requirements.

2. A total of 60-61 credits is required for the degree.
3. See the Aviation Technology Division advisor for appropriate sequence of courses.

**UNDERGRADUATE CERTIFICATE, AVIATION MAINTENANCE TECHNOLOGY**

**CERTIFICATE DESCRIPTION AND OUTCOMES**
Aviation Maintenance Undergraduate Certificates are designed to prepare graduates for employment as maintenance technicians in general aviation, corporate aviation, airlines, or aerospace manufacturers. In addition to traditional aircraft maintenance courses, the curriculum emphasizes modern aircraft systems. At the completion of this program, students will be able to:

**Airframe Certificate**
1. Demonstrate proficient, entry-level aviation maintenance skills.
2. Demonstrate proficiency in emphasis area skills: Airframe
3. Demonstrate knowledge of aircraft structures and systems, as well as appropriate FAA regulations.
4. Demonstrate knowledge of industry information: current status, segments and opportunities.

**Powerplant Certificate**
1. Demonstrate proficient, entry-level aviation maintenance skills.
2. Demonstrate proficiency in emphasis area skills: Powerplant
3. Demonstrate knowledge of aircraft engines and systems, as well as appropriate FAA regulations.
4. Demonstrate knowledge of industry information: current status, segments and opportunities.

**ADMISSION REQUIREMENTS**
1. Satisfy Undergraduate Certificate and Associate Degree Admission Requirements in Chapter 7 of this catalog.
2. Apply for admission to UAA and to the AMT program by contacting the UAA Aviation Technology Division, Aviation Maintenance Technology program at 2811 Merrill Field Drive, Anchorage, Alaska 99501. Telephone: (907) 786-7200, Fax: (907) 786-7202 or at http://uaa.alaska.edu/aviation.
3. Present evidence of a proficiency in mathematics at or exceeding the MATH A055 level. An appropriate score on a math placement test administered by Advising and Testing may also be used.
4. Demonstrate English language proficiency through placement into PRPE A108 (or higher), ACT English scores, SAT Critical Reading scores, or an appropriate score on the UAA-approved English placement examination. Generally, applicants eligible for entry into PRPE A108 or ENGL A109 have sufficient proficiency for entry into the AMT program.

**ADVISING**
All students must meet with an academic advisor in the ATD prior to beginning any program of study and are encouraged to meet each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise. Degree check sheets are available in the Aviation Technology Division office. See the Aviation Technology Division advisor for appropriate sequence of courses.

Successful progress through the AMT program requires that all students have algebra proficiency at the MATH A055 level (MATH A105 is highly recommended) and English proficiency at the PRPE A108 or ENGL A109 level. Preparatory mathematics and English courses should be taken prior to entry into the AMT program. Under certain circumstances mathematics and English courses may be taken during the first semester with some AMT courses; see an advisor before registering. The AMT program courses are sequential and the student is cautioned that taking courses out of sequence will extend the program beyond its normal length. Typically, AMT courses have prerequisites and advisor approval is required prior to registration for all AMT courses.

www.uaa.alaska.edu
GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Undergraduate Certificates located at the beginning of this chapter.

MAJOR REQUIREMENTS
1. Core courses apply to both certificates: complete the following required courses:

   General Subject Areas:
   - AMT A170 Aircraft Ground Operations and Safety 1
   - AMT A171 Basic Aerodynamics 3
   - AMT A172 Aircraft Publications, Regulations and Records 3
   - AMT A174 Fundamentals of Aircraft Electronics 3
   - AMT A174L Fundamentals of Aircraft Electronics Lab 2
   - AMT A175 Drawing and Precision Measurement 2
   - AMT A176 Aircraft Materials and Processes I 2
   - AMT A186 Aircraft Non-Destructive Inspection Methods 3

   Combined General, Airframe & Powerplant Subject Areas:
   - AMT A181 Aircraft Fuel Systems 3
   - AMT A181L Aircraft Fuel Systems Lab 1
   - AMT A272 Aircraft Electrical Hardware and Systems 3
   - AMT A274 Aircraft Electronic Systems 5
   - AMT A274L Aircraft Electronic Systems Lab 1

2. For the AMT Powerplant Certificate, complete the above core courses plus the following powerplant courses:
   - AMT A177 Reciprocating Engine Theory 2
   - AMT A178 Turbine Engine Theory 2
   - AMT A187 Aircraft Reciprocating Engine Overhaul 3
   - AMT A187L Aircraft Reciprocating Engine Overhaul Lab 2
   - AMT A279 Aircraft Turbine Engine Repair and Overhaul 3
   - AMT A279L Aircraft Turbine Engine Repair and Overhaul Lab 1
   - AMT A282 Aircraft Propeller Systems 1
   - AMT A284 Aircraft Electrical Machinery 2
   - AMT A284L Aircraft Electrical Machinery Lab 2
   - AMT A287 Reciprocating Engine Installation and Operations 3
   - AMT A287L Reciprocating Engine Installation and Operations Lab 2
   - AMT A289 Turbine Engine Installation and Operations 3
   - AMT A289L Turbine Engine Installation and Operations Lab 2

3. For the AMT Airframe Certificate, complete the above core courses plus the following airframe courses:
   - AMT A185 Aircraft Sheetmetal Structures 3
   - AMT A185L Aircraft Sheetmetal Structures Lab 2
   - AMT A273 Aircraft Fluid Power Systems 2
   - AMT A273L Aircraft Fluid Power Systems Lab 2
   - AMT A283 Aircraft Auxiliary Systems 3
   - AMT A283L Aircraft Auxiliary Systems Lab 1
   - AMT A285 Aircraft Bonded Structures 4
   - AMT A285L Aircraft Bonded Structures Lab 1
   - AMT A286 Aircraft Materials and Processes II 2
   - AMT A364 Aircraft Avionics Systems 3
   - AMT A369 Airframe Assembly and Inspections 3
   - AMT A369L Airframe Assembly and Inspections Lab 2

4. A total of 60 credits is required for the AMT Powerplant Undergraduate Certificate and the AMT Airframe Undergraduate Certificate.

ASSOCIATE OF APPLIED SCIENCE, AVIATION MAINTENANCE TECHNOLOGY

PROGRAM DESCRIPTION AND OUTCOMES
Aviation Maintenance Associate of Applied Science degree is designed to prepare graduates for employment as maintenance technicians in general aviation, corporate aviation, airlines, or aerospace manufacturers. In addition to traditional aircraft maintenance courses, the curriculum emphasizes modern aircraft systems. At the completion of this program, graduates will be able to:

1. Demonstrate proficient, entry-level aviation maintenance skills.
2. Demonstrate proficiency in emphasis area skills: Airframe or powerplant.
3. Demonstrate knowledge of aircraft engines, structures, and systems, as well as appropriate FAA regulations.
4. Demonstrate knowledge of industry information: current status, segments and opportunities.
5. Demonstrate critical thinking, problem solving, and communication skills.

ADMISSION REQUIREMENTS
1. Satisfy Undergraduate Certificate and Associate Degree Admission Requirements in Chapter 7 of this catalog.
2. Apply for admission to UAA and to the AMT program by contacting the UAA Aviation Technology Division, Aviation Maintenance Technology program at 2811 Merrill Field Drive, Anchorage, Alaska 99501. Telephone: (907) 786-7200, Fax: (907) 786-7202 or at: http://uaa.alaska.edu/aviation.

ADVISING
All students must meet with an academic advisor in the ATD prior to beginning any program of study and are encouraged to meet each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise. Degree check sheets are available in the Aviation Technology Division office. See the Aviation Technology Division advisor for appropriate sequence of courses.

The AAS degree normally requires one semester of study beyond a certificate program. AMT students may elect to continue their studies while pursuing a Bachelor of Science in Aviation Technology or Bachelor of Science in Technology at UAA. Those intending to pursue a four-year degree must discuss their plans with an AMT faculty advisor for proper course sequence.

AAS degree candidates who have completed an FAA approved program in aviation maintenance at a nationally or regionally accredited institution, passed all courses in the major with a grade of C or better, and currently hold a valid FAA Mechanic’s Certificate may, with the approval of the department, use the certificate for a portion of the AAS major degree requirements. Individuals considering this option must discuss their plans with an AMT faculty advisor.

ACADEMIC PROGRESS REQUIREMENTS

Computer Literacy
This degree requires computer competency, which may be demonstrated by any one of the following:

1. A 3-credit course in computer language or an introductory course in data processing or microcomputers.
2. Work-related experience verifying computer literacy as approved by the faculty advisor.
3. Self-initiated computer literacy as approved by the faculty advisor.
Mathematics Proficiency
Demonstrate a proficiency in mathematics at or exceeding intermediate algebra (MATH A105) level, verified through transcripts or ACCUPLACER score.

**General University Requirements**
Complete the General University Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.

**General Course Requirements**
Complete the General Course Requirements for AAS degrees located at the beginning of this chapter.

**Major Requirements**
1. Complete the following core requirements:
   - AMT A170 Aircraft Ground Operations and Safety 1
   - AMT A171 Basic Aerodynamics 3
   - AMT A172 Aircraft Publications, Regulations and Records 3
   - AMT A174 Fundamentals of Aircraft Electronics 3
   - AMT A174L Fundamentals of Aircraft Electronics Lab 2
   - AMT A175 Drawing and Precision Measurement 2
   - AMT A176 Aircraft Materials and Processes I 2
   - AMT A181 Aircraft Fuel Systems 3
   - AMT A181L Aircraft Fuel Systems Lab 1
   - AMT A186 Aircraft Non-Destructive Inspection Methods 3
   - AMT A272 Aircraft Electrical Hardware & Systems 3
   - AMT A274 Aircraft Electronic Systems 5
   - AMT A274L Aircraft Electronic Systems Lab 1

   2. Complete either, A. Powerplant courses or B. Airframe courses:

   **A. Powerplant courses (28 credits)**
   - AMT A177 Reciprocating Engine Theory 2
   - AMT A178 Turbine Engine Theory 2
   - AMT A187 Aircraft Reciprocating Engine Overhaul 3
   - AMT A187L Aircraft Reciprocating Engine Overhaul Lab 2
   - AMT A279 Aircraft Turbine Engine Repair and Overhaul 3
   - AMT A279L Aircraft Turbine Engine Repair and Overhaul Lab 1
   - AMT A282 Aircraft Propeller Systems 1
   - AMT A284 Aircraft Electrical Machinery 2
   - AMT A284L Aircraft Electrical Machinery Lab 2
   - AMT A287 Reciprocating Engine Installation and Operations 3
   - AMT A287L Reciprocating Engine Installation and Operations Lab 2
   - AMT A289 Turbine Engine Installation and Operations 3
   - AMT A289L Turbine Engine Installation and Operations Lab 2

   **B. Airframe courses (28 credits)**
   - AMT A185 Aircraft Sheetmetal Structures 3
   - AMT A185L Aircraft Sheetmetal Structures Lab 2
   - AMT A273 Aircraft Fluid Power Systems 2
   - AMT A273L Aircraft Fluid Power Systems Lab 2
   - AMT A283 Aircraft Auxiliary Systems 3
   - AMT A283L Aircraft Auxiliary Systems Lab 1
   - AMT A285 Aircraft Bonded Structures 4
   - AMT A285L Aircraft Bonded Structures Lab 1
   - AMT A286 Aircraft Materials and Processes II 2
   - AMT A364 Aircraft Avionics Systems 3
   - AMT A369 Airframe Assembly and Inspections 3
   - AMT A369L Airframe Assembly and Inspections Lab 2

   3. A total of 75 credits is required for the degree.

**Associate of Applied Science, Professional Piloting**

**Program Description and Outcomes**
Professional pilots need knowledge of aerodynamics, aircraft engine and system operation, aircraft operating limitations and performance, weather and atmospheric processes, as well as navigation and communication methods. This degree program prepares graduates for careers in professional flying. At the completion of this program, students will be able to:

1. Demonstrate proficiency in instrument pilot and commercial pilot knowledge and flight skills.
2. Demonstrate knowledge of aviation law and regulations, and of the legal issues affecting the aviation industry.
3. Demonstrate knowledge of the issues affecting aviation safety and safety management.
4. Demonstrate knowledge of aviation weather and of aviation weather services.

**Admission Requirements**
Satisfy Certificate and Associate Degree Admission Requirements found in Chapter 7 of this catalog.

**Special Considerations**
The following applies for those students desiring to pursue a professional piloting degree:

1. Costs for flight training are not included in university tuition and fees.
2. Students must pass an FAA Class II medical examination before beginning any flight training.
3. Students must present verification of U.S. citizenship before beginning any flight or airplane simulator training. The following three methods are acceptable: an unexpired U.S. passport, an original or raised seal official copy of birth certificate, or an original or raised seal official copy of Certificate of Naturalization. Non-U.S. citizens must register and receive approval from the Transportation Security Agency before beginning any flight or simulator training; please contact the Aviation Technology office for information.
4. Once formally registered for aviation classes at UAA, all subsequent flight training must be completed in residence at UAA. Flight training through other programs while enrolled at UAA is not permitted. Enrolled students who receive flight training outside UAA that is required under specific curricula will not receive credit for the corresponding UAA courses.
5. Under certain circumstances, academic credit may be granted for pilot certificates/ratings earned prior to enrolling at UAA. Contact a faculty advisor for determination.
6. Military pilots currently, or within the preceding 12 months, on active flight status may petition to have appropriate curriculum requirements awarded based on FAA pilot certificates without a proficiency check.

**Advising**
All students must meet with an academic advisor in the ATD prior to beginning any program of study and are encouraged to meet each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise. Degree check sheets are available in the Aviation Technology Division Office.

See the Aviation Technology Division advisor for appropriate sequence of courses.
AVIATION TECHNOLOGY
includes university general education requirements, a common set of
goals of each student determine the emphasis area to pursue. The degree
program description and outcomes. The specific interests and career
opportunities are found with airlines, airports, general aviation,
individuals for professional positions within the aviation industry. Related

career opportunities are found with airlines, airports, general aviation,
and government organizations, education, and the aerospace industry.

Within the degree there are three emphasis areas: Aviation Management,
Air Traffic Control, and Professional Piloting, each having a discrete
program description and outcomes. The specific interests and career
goals of each student determine the emphasis area to pursue. The degree
includes university general education requirements, a common set of
core courses, and courses relative to each individual emphasis.

ACADEMIC PROGRESS REQUIREMENTS
Once enrolled in any flight training course, students are expected to
complete the course requirements within the equivalent of two
semesters. Failure to do so will be considered unsatisfactory progress
and will result in a failing (F) grade.

GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Associate of Applied
Science Degrees located at the beginning of this chapter.

GENERAL COURSE REQUIREMENTS
Complete the General Course Requirements for AAS degrees located at
the beginning of this chapter.

MAJOR REQUIREMENTS
1. Complete the following required courses:
   - ATA A102 Introduction to Aviation Technology 3
   - ATA A132 History of Aviation 3
   - ATA A333 Aviation Law and Regulations 3
   - ATA A233 Aviation Safety 3
   - ATA A337 Airline Operations 3
   - ATP A100 Private Pilot Ground School 3
   - ATP A101 Pre-Professional Flying 2
   - ATP A116 Instrument Ground School 3
   - ATP A126 Instrument Flying 2
   - ATP A200 Commercial Ground School 3
   - ATP A218 Commercial Flying I 1.5
   - ATP A219 Commercial Flying II 1.5
   - ATP A220 Commercial Flying III 2
   - ATP A231 Search, Survival, and Rescue 3
   - ATP A235 Elements of Weather 3
   - CIS A110 Computer Concepts in Business 3
   - *ENGL A212 Technical Writing (Note: prerequisite) 3
   - *PHIL A101 Introduction to Logic 3
   - *PHYS A123 Basic Physics I (Note: prerequisite) 3
   - *PHYS A123L Basic Physics I Laboratory (Note: prerequisite) 1
   *One of the following:
   - MATH A105 Intermediate Algebra 3
   - MATH A107 College Algebra (Note: prerequisite) 3
   - MATH A172 Applied Finite Mathematics (Note: prerequisite) 3
   - MATH A272 Applied Calculus (Note: prerequisite) 3
   *Courses may be used to fulfill the Associate of Applied Science,
   General Degree Requirements.

2. A total of 63 -65 credits is required for the degree.

3. Students are required to complete a minimum of one pilot
certification or rating course in residence.

BACHELOR OF SCIENCE,
AVIATION TECHNOLOGY

PROGRAM DESCRIPTION
The Bachelor of Science degree in Aviation Technology prepares
individuals for professional positions within the aviation industry. Related
career opportunities are found with airlines, airports, general aviation,
government organizations, education, and the aerospace industry.

Within the degree there are three emphasis areas: Aviation Management,
Air Traffic Control, and Professional Piloting, each having a discrete
program description and outcomes. The specific interests and career
goals of each student determine the emphasis area to pursue. The degree
includes university general education requirements, a common set of
core courses, and courses relative to each individual emphasis.

ACADEMIC PROGRESS
A minimum grade of C in each Aviation Technology course is required
to graduate with this degree.

GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate
Degrees listed at the beginning of this chapter.

GENERAL COURSE REQUIREMENTS
Complete the General Education Requirements (GER) for Baccalaureate
Degrees listed at the beginning of this chapter.

MAJOR REQUIREMENTS
1. Complete the following required common core courses:
   - ATA A102 Introduction to Aviation Technology 3
   - ATA A133 Aviation Law and Regulations 3
   - ATA A233 Aviation Safety 3
   - ATA A333 Human Factors in Aviation 3
   - ATA A415 Company Resource Management 3
   - ATA A425 Civil Aviation Security 3
   - ATA A492 Air Transportation System Seminar 3
   - ATP A100 Private Pilot Ground School 3
   - ATP A235 Elements of Weather 3
   - BA A300 Organizational Theory and Behavior 3
   - BA A361 Human Resource Management 3
   - BA A461 Negotiation and Conflict Management 3
   - BA A488 The Environment of Business 3
   - CIS A110 Computer Concepts in Business 3
   - *ECON A201 Principles of Macroeconomics 3
   - *ENGL A212 Technical Writing (Note: prerequisite) 3
   - *MATH A272 Applied Calculus (Note: prerequisite) 3
   - *PHIL A101 Introduction to Logic 3
   - *PHYS A123 Basic Physics I (Note: prerequisite) 3
   - *PHYS A123L Basic Physics I Laboratory (Note: prerequisite) 1
   *Courses may be used to fulfill the Bachelor of Applied Science,
   General Education Requirements.

2. Select one of the three following BSAT emphasis-related
areas and complete the listed required courses.
AVIATION MANAGEMENT EMPHASIS

EMPHASIS DESCRIPTION AND OUTCOMES

The BSAT with the Aviation Management emphasis is designed to prepare graduates for management positions in all aspects of the aviation industry. The BSAT prepares students not only with the organizational, human relations, and managerial skills required in aviation management, but also with the appropriate technical background. At the completion of this program, students will be able to:
1. Demonstrate technical knowledge of aircraft operating limitations and performance.
2. Demonstrate knowledge of aviation law and regulations, and of the legal issues affecting the aviation industry.
3. Demonstrate knowledge of the issues affecting aviation safety and safety management.
4. Demonstrate knowledge of basic business management skills and supervisory techniques.
5. Demonstrate a broad knowledge of the aviation industry.
6. Demonstrate a broad knowledge of aviation management functions and techniques.

REQUIRED EMPHASIS COURSES

1. Complete the following required emphasis courses:
   - ACCT A201 Principles of Financial Accounting 3
   - ACCT A202 Principles of Managerial Accounting 3
   - ATA A132 History of Aviation 3
   - ATA A134 Principles of Aviation Administration 3
   - ATA A335 Airport Operations 3
   - ATA A336 Air Service Operations 3
   - ATA A337 Airline Operations 3
   - ATA A431 Aircraft Accident Investigation 3
   - BA A151 Introduction to Business 3
   - BA A343 Principles of Marketing 3
   - BAA447 International Marketing 3
   - CIS A305 Managerial Presentations 3
   - CIS A376 Management Information Systems 3
   - ECON A202 Principles of Microeconomics 3
   - *PARL A101 Introduction to Law 3
   - Advisor Approved Elective 3

   *Courses may be used to fulfill the Bachelor of Applied Science, General Education Requirements.

2. A minimum of 124 credits is required for the Aviation Management emphasis, of which a minimum of 48 credits must be upper division.

AIR TRAFFIC CONTROL EMPHASIS

EMPHASIS DESCRIPTION AND OUTCOMES

ATC professionals utilize knowledge of aircraft operating limitations and performance, weather and atmospheric processes, radar theory and radar systems, federal regulations, the US air traffic control system, as well as navigation methods within the National Airspace System. The BSAT prepares students not only for the technical requirements of air traffic control, but also for the organizational, human relations, and managerial demands. Federal Aviation Administration Recommendation for Employment and Special Considerations contained in the Associate of Applied Science, Air Traffic Control degree apply to this emphasis. At the completion of this program, students will be able to:
1. Demonstrate knowledge of the theory of aircraft operating limitations and performance, including methods of air and ground navigation within the National Airspace System.
2. Demonstrate knowledge of weather and atmospheric processes, and how each affect the air traffic control system.
3. Demonstrate knowledge of Federal Regulations and the U.S. air traffic control system interactions, including FAA publications.
4. Demonstrate knowledge of fundamentals of aircraft separation in radar, nonradar, and terminal environments, as well as operating techniques of ATC facilities in visual and instrument conditions.
5. Demonstrate awareness of ATC industry trends, future developments, global implications, and current management practices and techniques.
6. Demonstrate broad knowledge of the aviation industry.

REQUIRED EMPHASIS COURSES

1. Complete the following required emphasis courses:
   - ATA A132 History of Aviation 3
   - ATC A143 ATC Regulations 3
   - ATC A144 ATC Flight Procedures 3
   - ATC A147 Pilot/Controller Techniques 3
   - ATC A241 Control Tower Operations 3
   - ATC A241L Control Tower Operations Lab 1
   - ATC A242 ATC Terminal Radar Procedures 3
   - ATC A242L ATC Terminal Radar Procedures Lab 1
   - ATC A243 ATC Enroute Procedures 3
   - ATC A243L ATC Enroute Procedures Lab 1
   - ATC A325 Tools for Weather Briefing 3
   - ATC A340 Terminal Instrument Procedures 3
   - ATC A440 Facility Operation and Administration 3
   - CIS A305 Managerial Presentations 3
   - CIS A376 Management Information Systems 3
   - PSY A380 Psychology of Stress and Coping 3

2. A minimum of 121 credits is required for the Air Traffic Control emphasis, of which a minimum of 42 credits must be upper division.

PROFESSIONAL PILOTING EMPHASIS

EMPHASIS DESCRIPTION AND OUTCOMES

Professional pilots need knowledge of aerodynamics, aircraft engine and system operation, aircraft operating limitations and performance, weather and atmospheric processes, as well as navigation and communication methods. This degree program prepares graduates for careers in professional flying and management. The Special Considerations and Academic Progress Requirements contained in the Associate of Applied Science, Professional Pilot also apply to this emphasis area. At the completion of this program, students will be able to:
1. Demonstrate proficiency in instrument pilot and commercial pilot knowledge and flight skills.
2. Demonstrate knowledge of aviation law and regulations, and of the legal issues affecting the aviation industry.
3. Demonstrate knowledge of the issues affecting aviation safety and safety management.
4. Demonstrate knowledge of aviation weather and of aviation weather services.
5. Demonstrate a broad knowledge of the aviation industry.
6. Demonstrate a broad knowledge of flight instructing techniques and procedures.

SPECIAL CONSIDERATIONS

The following applies for those students desiring to pursue a Professional Pilot emphasis:
1. Costs for flight training are not included in university tuition and fees.
2. Students must pass an FAA Class II medical examination before beginning any flight training.
3. Students must present verification of U.S. citizenship before beginning any flight or airplane simulator training. The following three methods are acceptable: an unexpired U.S. passport, an original or raised seal official copy of birth certificate, or an original or raised seal official copy of Certificate of Naturalization. Non-U.S. citizens must register and receive approval from the Transportation Security Agency before beginning any flight or simulator training; please contact the Aviation Technology office for information.
4. Once formally registered for Aviation classes at UAA, all subsequent flight training must be completed in residence at UAA. Flight training through other programs while enrolled at UAA is
not permitted. Enrolled students who receive flight training outside UAA that is required under specific curricula will not receive credit for the corresponding UAA courses.

5. Under certain circumstances, academic credit may be granted for pilot certificates/ratings earned prior to enrolling at UAA. Contact a faculty advisor for determination.

6. Military pilots currently, or within the preceding 12 months, on active flight status may petition to have appropriate curriculum requirements awarded based on FAA pilot certificates without a proficiency check.

REQUIRED EMPHASIS COURSES

1. Complete the following required emphasis courses:
   - ACCT A201 Principles of Financial Accounting 3
   - ATA A337 Airline Operations 3
   - ATA A431 Aircraft Accident Investigation 3
   - ATC A325 Tools for Weather Briefing 3
   - ATP A101 Pre-Professional Flying 2
   - ATP A116 Instrument Ground School 3
   - ATP A126 Instrument Flying 2
   - ATP A200 Commercial Ground School 3
   - ATP A218 Commercial Flying I 1.5
   - ATP A219 Commercial Flying II 1.5
   - ATP A220 Commercial Flying III 2
   - ATP A232 Advanced Aviation Navigation 3
   - ATP A300 CFI Ground School 3
   - ATP A301 CFI Flying 2
   - ATP A305 Additional Aircraft Rating 2
   - ATP A332 Transport Aircraft Systems 3

   Advisor approved upper division elective 3

1. All students are required to complete a minimum of two advanced flight courses (300-400) in residence to meet graduation requirements.

2. A minimum of 122 credits is required for the professional piloting emphasis, of which a minimum of 42 credits must be upper division.

MINOR, AVIATION TECHNOLOGY

Students majoring in another discipline who wish to minor in Aviation Technology must complete the following requirements. A total of 18 credits is required for the minor, 6 credits must be upper division. Students are encouraged to select courses from the following list. Students may request prior approval of other Aviation Technology courses.

Complete 18 credits from the following:

- AMT A171 Basic Aerodynamics (3)
- AMT A172 Aircraft Publications, Regulations, and Records (3)
- AMT A177 Reciprocating Engine Theory (2)
- AMT A178 Turbine Engine Theory (2)
- AMT A185 Aircraft Sheetmetal Structures (3)
- AMT A185L Aircraft Sheetmetal Structures Lab (2)
- AMT A285 Aircraft Bonded Structures (4)
- AMT A285L Aircraft Bonded Structures Lab (1)
- ATA A132 History of Aviation (3)
- ATA A133 Aviation Law and Regulations (3)
- ATA A233 Aviation Safety (3)
- ATA A331 Human Factors in Aviation (3)
- ATA A335 Airport Operations (3)
- ATA A336 Air Service Operations (3)
- ATA A337 Airline Operations (3)
- ATA A425 Civil Aviation Security (3)
- ATA A431 Aircraft Accident Investigation (3)
- ATA A492 Air Transportation System Seminar (3)
- ATC A147 Pilot/Controller Techniques (3)
- ATP A100 Private Pilot Ground School (3)
- ATP A235 Elements of Weather (3)

Computer Electronics

Kenai Peninsula College (KPC)
156 College Drive Soldotna, Alaska, 99669, (907) 262-0300
www.kpc.alaska.edu

This two-year degree program trains students in maintenance and repair of digital/computer equipment including computer circuitry, hands-on maintenance, electronic fundamentals, and programming. Students are prepared for employment as computer technicians, field service representatives, and other jobs requiring electronic skills.

Associate of Applied Science, Computer Electronics

The Computer Electronics program is only offered at Kenai Peninsula College (KPC), Kenai River Campus.

Advising for this program is only available from the Computer Science faculty at Kenai Peninsula College. Please call (907) 262-0344 for more information.

The graduates of the UAA Computer Electronics program will have the ability to:

1. Use all tools common to electronic repair, including hand tools, meters, oscilloscopes and logic probes;
2. Analyze and troubleshoot circuits in both analog and digital electronics;
3. Program in assembly and high-level languages;
4. Enter and print data in a spreadsheet program and enter and edit text using a word processor; and
5. Interface microcontrollers used in embedded systems.

Admission Requirements

Complete university admissions requirements for associate degrees found in Chapter 7 of this catalog.

A. General University Requirements

Complete the General University and the General Course Requirements for Associate of Applied Science Degrees at the beginning of this chapter.

B. Communication and General Requirements

1. Oral Communication Requirements:
   - COMM A111 Fundamentals of Oral Communication (3)
   - or
   - COMM A235 Small Group Communication (3)
   - or
   - COMM A241 Public Speaking (3)
2. Written Communication Requirements: 6
   ENGL A111 Methods of Written Communication (3)
   ENGL A212 Technical Writing (3)
3. General Requirements:
   Math Courses:
   MATH A105 Intermediate Algebra (3)
   MATH A107 College Algebra (4)
   Physical Science Courses
   PHYS A115/L Physical Science (4)
   PHYS A123/L Basic Physics I (4)
   Natural Science Courses
   PHYS A124/L Basic Physics II (4)
   CHEM A103/L Survey of Chemistry (4)
   CHEM A105/L General Chemistry I (4)

C. MAJOR REQUIREMENTS
1. Complete the following required courses:
   CIS A110 Computer Concepts in Business 3
   CNT A170 Cisco Academy Network Fundamentals 4
   ET A101 Basic Electronics: DC Physics 4
   ET A102 Basic Electronics: AC Physics 4
   ET A126 Principles of Logic and Gating 4
   ET A175 Technical Introduction to Microcomputers 3
   ET A240 Application of Integrated Circuits 3
   ET A241 Microcomputer Interfacing 3
2. Complete 3 credits from the following:
   CS A109 Computer Programming: (Languages vary) (3)
   CS A110 Java Programming (3)
   CS A111 Visual Basic.NET Programming (3)
   CS A201 Programming Concepts I (3)
   CS A207 C Programming (3)
3. Applied Technology Electives 3-5
   Computer Science, Computer Network Tech, or Electronics
4. Electives 1-4
5. A total of 60 credits is required for the degree.

FACULTY
Rich Kochis, Assistant Professor, IFRLK@uaa.alaska.edu
Scott Kraxberger, Associate Professor, IFSLK@uaa.alaska.edu
Allen Houtz, Professor, IFADH@uaa.alaska.edu

COMPUTER INFORMATION AND OFFICE SYSTEMS

The Computer Information and Office Systems (CIOS) program provides career education leading to an Associate of Applied Science (AAS) degree or Occupational Endorsement Certificates (OECs) that prepare students for career entry or advancement while developing and refining lifelong learning skills, fostering flexible career path options and building confidence to adapt to new technological demands in the workplace.

The CIOS program prepares entry-level, experienced, or workforce re-entry level office workers to successfully engage in business office environments where communication, technical, organizational, interpersonal, and teamwork skills are essential to business success. CIOS courses also cover topics that help prepare students for the Microsoft Office Specialist (MOS) certification examinations and the Certified Administrative Professional (CAP) and Certified Professional Secretary (CPS) certification examinations.

The following programs are available:

**Occupational Endorsement Certificates**
OECs are designed to give students skills in a specific occupational field and indicate competence in a technical and professional area. The Occupational Endorsement Certificate areas are articulated with the AAS in Computer Information and Office Systems. Students must receive a satisfactory grade (C or higher, or P) in all required CIOS courses to be awarded an OEC. The CIOS Department offers the following OECs:
- Office Foundations
- Bookkeeping Support
- Medical Office Support
- Office Digital Media
- Office Support
- Technical Support

**ADMISSION REQUIREMENTS**
See Occupational Endorsement Certificate admissions in Chapter 7 of this catalog.

**ADVISING**
Students should contact the CIOS faculty for assistance with course planning toward Occupational Endorsement Certificates.

**ACADEMIC PROGRESS**
Students must earn a satisfactory grade (C or higher, or P) in all CIOS courses required for each certificate.

**GENERAL UNIVERSITY REQUIREMENTS**
See General University Requirements for Occupational Endorsement Certificates at the beginning of this chapter.

**OCCUPATIONAL ENDORSEMENT CERTIFICATE, OFFICE FOUNDATIONS**
Provides foundational skills required for entry into the administrative office professional field.

**OUTCOMES**
Upon completion of this OEC, students will demonstrate:
- Keystroke skills of 28 net words per minute minimum.
- Entry level skills in word processing and spreadsheets.
- Entry level skills using the Internet to obtain information.
- Customer service skills.
- Knowledge of proper grammar and mechanics used in business documents.
- The ability to create and maintain an electronic file system.
REQUIREMENTS

1. All students must take the following basic computer skills courses or possess equivalent knowledge. Students may take challenge examinations or placement tests to prove proficiency in these areas.
   Beginning computer users are encouraged to take CIOS A113 Operating Systems: MS Windows as the first course.
   CIOS A101A Keyboarding A: Basic Keyboarding 1
   CIOS A113 Operating Systems: MS Windows 1
   CIOS A130A Word Processing I: MS Word 1
   CIOS A135A Spreadsheets I: MS Excel 1
   CIOS A146 Internet Concepts and Applications 2
   CIOS A161A Proofreading 2
   CNT A165 Customer Service Fundamentals 1

2. A total of 9 credits is required for this OEC.

OCCUPATIONAL ENDORSEMENT CERTIFICATE,
BOOKKEEPING SUPPORT

Provides essential skills to handle financial transactions and recordkeeping.

OUTCOMES

Upon completion of this OEC, students will demonstrate:

• Basic skills in financial transactions, payroll, and bookkeeping procedures.

REQUIREMENTS

1. Must complete the 9-credit Office Foundations OEC before admission to this program.
   CIOS A101B Keyboarding B: Business Documents I (1)
   CIOS A101C Keyboarding C: Business Documents II (1)
2. Complete 3 credits from the following:
   ACCT A101 Principles of Financial Accounting I (3)
   ACCT A120 Bookkeeping for Business I (3)
3. Complete the following 10 credits:
   CIOS A115 10-Key for Business Calculations 2
   CIOS A118 Payroll Procedures 2
   CIOS A120A Bookkeeping Software Applications I: QuickBooks 1
   CIOS A165 Office Procedures 3
   CIOS A220A Bookkeeping Software Applications II: QuickBooks 2
4. Complete 3 elective credits approved by the CIOS Department: 3
   Recommended Courses:
   BIOL A100 Human Biology (3)
   CIOS A208 Medical Transcription (3)
   MA A104 Essentials of Human Disease (3)
   MA A140 Medical Transcription I (2-3)
   MA A220 Coding for the Medical Office (3)
5. A total of 14 credits is required for this OEC.

OCCUPATIONAL ENDORSEMENT CERTIFICATE,
MEDICAL OFFICE SUPPORT

Provides a solid foundation for individuals seeking a support position in a medical office.

OUTCOMES

Upon completion of this OEC, students will demonstrate:

• Keystroke skills of 35 net words per minute minimum.
• Effective communication using appropriate medical terminology.
• The ability to create and maintain a file system.

REQUIREMENTS

1. Must complete the 9-credit Office Foundations OEC prior to admission to this program.
   CIOS A101B Keyboarding B: Business Documents I (1)
   CIOS A101C Keyboarding C: Business Documents II (1)
2. Complete the following 11 credits:
   CIOS A140A Databases I: MS Access 1
   CIOS A164 Filing 1
   CIOS A264A Records Management 2
   MA A101 Medical Terminology I 3
   MA A120 Medical Office Procedures 4
3. Complete 3 elective credits approved by the CIOS Department: 3
   Recommended Courses:
   BIOL A100 Human Biology (3)
   CIOS A208 Medical Transcription (3)
   MA A104 Essentials of Human Disease (3)
   MA A140 Medical Transcription I (2-3)
   MA A220 Coding for the Medical Office (3)
4. Complete 3 elective credits approved by the CIOS Department: 3
   Suggested Courses:
   CIOS A153A Website Design: HTML (1)
   CIOS A156 Web Graphics: Fireworks (1)
   Programming or other related courses (1-3)
5. A total of 15 credits is required for this OEC.

OCCUPATIONAL ENDORSEMENT CERTIFICATE,
OFFICE DIGITAL MEDIA

Builds on the Office Foundations OEC with basic skills in website maintenance and desktop publishing sometimes required of administrative assistants in an office setting.

OUTCOMES

Upon completion of this OEC, students will demonstrate:

• The ability to design and create business-quality electronic and print documents using a variety of media (digital imaging, website design, and desktop publishing programs).

REQUIREMENTS

1. Must complete the 9-credit Office Foundations OEC prior to admission to this program.
   CIOS A101B Keyboarding B: Business Documents I (1)
   CIOS A101C Keyboarding C: Business Documents II (1)
2. Complete the following 11 credits:
   CIOS A108 Digital Design Fundamentals 1
   CIOS A152A Digital Imaging Concepts and Applications: Photoshop 3
   CIOS A153B Website Design: Dreamweaver 3
   CIOS A251A Desktop Publishing Concepts and Applications: InDesign 3
   CIOS A259 Preparing Electronic Documents: Adobe Acrobat 1
3. Complete 3 elective credits approved by the CIOS Department: 3
   Recommended Courses:
   CIOS A153A Website Design: HTML (1)
   CIOS A156 Web Graphics: Fireworks (1)
   Programming or other related courses (1-3)
5. A total of 15 credits is required for this OEC.

OCCUPATIONAL ENDORSEMENT CERTIFICATE,
OFFICE SUPPORT

Builds on the Office Foundations OEC with additional skills an administrative assistant would typically use in an office setting.

OUTCOMES

Upon completion of this OEC, students will demonstrate:

• Keystroke skills of 35 net words per minute minimum.
• Entry level skills in managing data using a variety of media.
• The ability to develop digital presentations and documents using a variety of media.

REQUIREMENTS

1. Must complete the 9-credit Office Foundations OEC prior to admission to this program.
   CIOS A101B Keyboarding B: Business Documents I (1)
   CIOS A101C Keyboarding C: Business Documents II (1)
2. Complete the following 11 credits:
   CIOS A140A Databases I: MS Access 1
   CIOS A164 Filing 1
   CIOS A264A Records Management 2
   MA A101 Medical Terminology I 3
   MA A120 Medical Office Procedures 4
3. Complete the following 11 credits:
   CIOS A140A Databases I: MS Access 1
   CIOS A164 Filing 1
   CIOS A264A Records Management 2
   MA A101 Medical Terminology I 3
   MA A120 Medical Office Procedures 4
4. Complete 3 elective credits approved by the CIOS Department: 3
   Recommended Courses:
   BIOL A100 Human Biology (3)
   CIOS A208 Medical Transcription (3)
   MA A104 Essentials of Human Disease (3)
   MA A140 Medical Transcription I (2-3)
   MA A220 Coding for the Medical Office (3)
5. A total of 15 credits is required for this OEC.
2. Complete the following required courses:
   - CIOS A101B Keyboarding B: Business Documents I 1
   - CIOS A101C Keyboarding C: Business Documents II 1
   - CIOS A115 10-Key for Business Calculations 2
   - CIOS A125A Electronic Communications: MS Outlook 1
   - CIOS A140A Databases I: MS Access 1
   - CIOS A150A Presentations: MS PowerPoint 2
   - CIOS A164 Filing 1
   - CIOS A165 Office Procedures 3
   - CIOS A259 Preparing Electronic Documents: Adobe Acrobat 1

3. A total of 13 credits is required for this OEC.

**OCCUPATIONAL ENDORSEMENT CERTIFICATE, TECHNICAL SUPPORT**

This OEC blends the skills of a network technician with those of the administrative support professional by providing basic skills for setting up and troubleshooting computer hardware and networks.

**OUTCOMES**

Upon completion of this OEC, students will demonstrate:

- Entry-level skills in word processing, spreadsheets, and databases.
- Basic skills in computer hardware, networking, and operating systems.

**Requirements**

1. Must complete the 9-credit Office Foundations OEC prior to admission to this program.
2. Complete the following 1 credit:
   - CIOS A140A Databases I: MS Access 1
3. Complete 12 credits from the following:
   - CNT A160 PC Operating Systems (3)
   - CNT A162 PC Building, Upgrading, and Architecture (3)
   - CNT A183 Local Area Networks (3)
   - CNT A210 PC Technician Fundamentals (3) *(offered only at Mat-Su College)*
   - CNT A290 Selected Topics in Information Technology (1-3)

4. A total of 13 credits is required for this OEC.

**ASSOCIATE OF APPLIED SCIENCE, COMPUTER INFORMATION AND OFFICE SYSTEMS**

This Associate of Applied Science Degree program prepares students for career entry or career advancement in a variety of office settings and also offers skill building for personal use. It provides students with the technical, administrative, and human relations skills required of office professionals. Both the Office Foundations and the Office Support Occupational Endorsement Certificates articulate directly into this degree.

**OUTCOMES**

Upon completion of this program, students will demonstrate:

- Keyboarding skills of 40 net words per minute minimum.
- Intermediate skills that utilize advanced features of word processing, spreadsheet, and database software.
- Oral and written communications skills that meet business standards.
- Application of critical thinking skills to make effective decisions and solve problems.
- Professional behavior and interpersonal skills.

**ADMISSION REQUIREMENTS**

See Associate of Applied Science admissions in Chapter 7 of this catalog.

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**ADVISING**

Students should contact the CIOS faculty for assistance with course planning toward the Associate of Applied Science Degree.

**ACADEMIC PROGRESS**

Students must earn a satisfactory grade (C or higher, or P) in all CIOS courses required for the degree.

**DEGREE REQUIREMENTS**

**A. GENERAL UNIVERSITY REQUIREMENTS**

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science General Degree Requirements located at the beginning of this chapter. CIOS A260A, ENGL A212, and PSY A153 recommended.

**B. MAJOR REQUIREMENTS**

1. Complete the 9-credit Office Foundations OEC.
2. Complete the 13-credit Office Support OEC.
3. Complete the following 15 credits:
   - CIOS A102 Keyboarding Skill Building 1
   - CIOS A230A Word Processing II: MS Word 2
   - CIOS A235A Spreadsheets II: MS Excel 2
   - CIOS A240A Databases II: MS Access 2
   - CIOS A262A Professional Development 3
   - CIOS A264A Records Management 2
   - CIOS A265 Office Management 3
4. Complete 3 credits of the following:
   - ACCT A101 Principles of Financial Accounting I (3)
   - ACCT A120 Bookkeeping for Business I (3)
   - ACCT A201 Principles of Financial Accounting (3)
5. Complete 3 credits from the following:
   - CIOS A261A Interpersonal Skills in Organizations (3) or
   - HUMS/PSY A153 Human Relations (3)
6. Complete 1-3 credits from the following:
   - CIOS A276A Independent Project (1-3) or
   - CIOS A295 Office Internship (1-3)
7. Complete a minimum of 1 elective credit
8. A total of 60 credits is required for this degree.

**FACULTY**

Brenda Forsythe, Instructor, Matanuska-Susitna, PFBLF@matsu.alaska.edu
Darlene Gill, Assistant Professor, Anchorage, darlene.gill@uaa.alaska.edu
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**COMPUTER SYSTEMS TECHNOLOGY**

The Computer Systems Technology program is offered through the Matanuska-Susitna College and Kodiak College.

An Associate of Applied Science in Computer Systems Technology provides skills and education for qualified workers in the field of network and systems administration. The degree is designed to teach students both the business and IT-related concepts needed to enter the workforce as a systems administrator and technician. Four, full-time semesters are required to complete the degree program. An AAS in CST can be earned by completing a series of specific technical, business, and
ASSOCIATE OF APPLIED SCIENCE, COMPUTER SYSTEMS TECHNOLOGY

ADMISSION REQUIREMENTS
Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, Academic Standards and Regulations. Additionally, all students are required to take CIS A105 or possess equivalent knowledge prior to entering this degree program.

ACADEMIC PROGRESS
In order to receive an Associate of Applied Science degree in Computer Systems Technology, students must achieve a grade of C or higher in all courses undertaken and applied to the degree.

GENERAL UNIVERSITY REQUIREMENTS
Complete the General University and General Course Requirements for Associate of Applied Science Degrees listed at the beginning of this chapter.

MAJOR REQUIREMENTS
1. Complete the following required courses:
   
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA A151</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BA A231</td>
<td>Fundamentals of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>CNT A160</td>
<td>PC Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CNT A165</td>
<td>Customer Service Fundamentals</td>
<td>1</td>
</tr>
<tr>
<td>CNT A170</td>
<td>Cisco Academy Network Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CNT A210</td>
<td>PC Technician Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CNT A212</td>
<td>Network Technician Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CNT A240</td>
<td>Windows System Essentials</td>
<td>2</td>
</tr>
<tr>
<td>CNT A241</td>
<td>Administering and Supporting Windows Workstations and Server</td>
<td>3</td>
</tr>
<tr>
<td>CNT A242</td>
<td>Windows Network Infrastructure Administration</td>
<td>3</td>
</tr>
<tr>
<td>CNT A243</td>
<td>Windows Directory Services Administration</td>
<td>3</td>
</tr>
<tr>
<td>CNT A244</td>
<td>Designing Secure Windows Networks</td>
<td>3</td>
</tr>
<tr>
<td>CNT A245</td>
<td>Windows Directory Services Design</td>
<td>2</td>
</tr>
<tr>
<td>CNT A246</td>
<td>Windows Network Infrastructure Design</td>
<td>2</td>
</tr>
<tr>
<td>CNT A261</td>
<td>Cisco Academy Router Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CNT A270</td>
<td>Cisco Academy Switching and Intermediate Routing</td>
<td>3</td>
</tr>
<tr>
<td>CNT A271</td>
<td>Cisco Academy WAN Management</td>
<td>3</td>
</tr>
<tr>
<td>CNT A276</td>
<td>Independent Project</td>
<td>3</td>
</tr>
<tr>
<td>CNT A282</td>
<td>Work Study</td>
<td></td>
</tr>
<tr>
<td>ENGL A212</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH A105</td>
<td>Intermediate Algebra (3)</td>
<td>3-4</td>
</tr>
<tr>
<td>MATH A107</td>
<td>College Algebra (4)</td>
<td></td>
</tr>
<tr>
<td>MATH A172</td>
<td>Applied Finite Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Students are required to meet a 2-credit Project Management requirement. CIOS A270 is recommended. See advisor for more information.

3. A total of 63-64 credits is required for the degree.

FACULTY
Harry Banks, Instructor, hbanks@matsu.alaska.edu
Michael Buckland, Assistant Professor, AFMPB@uaa.alaska.edu

CONSTRUCTION MANAGEMENT
University Center (UC), Room 130, (907) 786-6465
www.uaa.alaska.edu/ctc/construction/cm

The Construction Management (CM) program provides comprehensive preparation and continuing education to meet the growing need for highly trained and educated construction management professionals. Construction managers plan, direct, and are responsible for managerial oversight of construction projects. They are responsible for coordinating and managing people, materials, and equipment; budgets, schedules, and contracts; and for the safety of employees and the general public. Construction managers work closely with architects, engineers, owners, and the other contractors on a construction project. Construction managers determine construction means and methods and the most cost-effective plans and schedules. They control construction costs, administer project changes and monitor work progress while ensuring compliance with the project design. Construction managers work in all sectors of the construction industry, for both public and private owners,
on projects that range from small multifamily projects to skyscrapers and from rural roads to major highways and bridges. The construction manager’s duties are varied, challenging, and rewarding.

The Construction Management program at UAA was developed with input from Alaska contractors and professional industry organizations to provide students with a broad knowledge of construction processes and techniques. The curriculum has been designed in accordance with the requirements of the American Council for Construction Education (ACCE). CM graduates understand basic business principles and possess broad knowledge of the technical and operational aspects of the construction industry. Graduates are able to function both in the construction office and on the job site.

The wide diversity in the construction management profession creates a similar diversity of employment opportunities for graduates. Associate degree graduates are prepared for entry-level positions in varying construction management roles for contractors in both home office and project office/field situations. Bachelor’s degree graduates are prepared for a wide variety of professional-level employment opportunities in construction companies, construction management consulting firms, and in the offices of government and project owner agencies. The Associate of Applied Science (AAS-CM) degree requires four to five semesters to complete. The Bachelor of Science (BSCM) degree requires eight to nine semesters to complete.

ADVISING

Students are encouraged to consult the faculty in the Construction Management program for assistance in designing their course of study to ensure all preparation requirements and prerequisites have been met and that university and major degree requirements are understood and followed.

All students are strongly encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise. Please call (907) 786-6465 to arrange an appointment with an academic advisor.

The recommended course sequence for the current semester and other advising information may be found on the program website: www.uaa.alaska.edu/ctc/construction/cm/sequence

PREPARATION

Students seeking a degree in Construction Management should prepare for entrance into the program by completing the following high school courses:

Mathematics

Algebra II (skill level as demonstrated by ACT, SAT, or UAA approved placement test to qualify for enrollment in MATH A105 Intermediate Algebra).

English

Composition (skill level as demonstrated by ACT, SAT, or UAA placement test to qualify for enrollment in ENGL A111 Fundamentals of Written Communication).

The university offers courses to help students without this preparation to meet the math and English skill levels required in the Construction Management program. Insufficient preparation will increase the number of semesters required to complete the degree.

ASSOCIATE OF APPLIED SCIENCE, CONSTRUCTION MANAGEMENT

PROGRAM OUTCOMES

Graduates will be able to:

- Analyze, interpret and understand the fundamental processes used to create project designs and construction documents.
- Define the roles, relationships and responsibilities of the participants in the design and construction process.
- Use clear and effective written and oral communication methods to facilitate interaction with all project team participants.
- Define the methods, materials, and techniques used in the design and construction of buildings and civil works.
- Interpret construction documents to accurately predict project costs and assign resources.
- Utilize construction operations planning methods to create accurate project schedules and monitor productivity.
- Interpret and apply building codes in construction processes.
- Proficiently operate industry-standard software for computer-aided design and drafting (CADD), project cost estimating, and project scheduling.
- Utilize a working knowledge of safety, health, and environmental issues related to construction activities.

ADMISSION REQUIREMENTS

1. Satisfy the requirements under Admission to Certificate and Associate Degree Programs in Chapter 7, Academic Standards and Regulations.

2. Certain courses require prerequisites or faculty permission. See an academic advisor for further information.

GRADUATION REQUIREMENTS

In order to receive the Associate of Applied Science in Construction Management, students must achieve a grade of C or better in all courses required for the degree.

COURSE REQUIREMENTS

1. Complete the General University Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.

2. Complete the General Course Requirements for Associate of Applied Science degrees located at the beginning of this chapter (15 credits).

REQUIRED SUPPORT COURSES

1. Complete the following required support courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT A201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT A202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ENGL A111</td>
<td>technical communication</td>
<td>3</td>
</tr>
<tr>
<td>MATH A107</td>
<td>College Algebra (4)</td>
<td>6/7</td>
</tr>
<tr>
<td>MATH A108</td>
<td>Trigonometry (3)</td>
<td></td>
</tr>
<tr>
<td>MATH A109</td>
<td>Precalculus (6)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS A123</td>
<td>Basic Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS A123/L</td>
<td>Basic Physics I Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

*Note: Required support courses may also be used to satisfy General Course Requirements.

MAJOR REQUIREMENTS

1. Complete the following required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM A101</td>
<td>Fundamentals of CADD for Building Construction</td>
<td>4</td>
</tr>
<tr>
<td>CM A102</td>
<td>Methods of Building Construction</td>
<td>3</td>
</tr>
<tr>
<td>CM A123</td>
<td>Codes and Standards</td>
<td>3</td>
</tr>
<tr>
<td>CM A142</td>
<td>Mechanical and Electrical Technology</td>
<td>4</td>
</tr>
</tbody>
</table>
CONSTRUCTION MANAGEMENT

1. Complete the following support courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM A163</td>
<td>Building Construction Cost Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CM A201</td>
<td>Construction Project Management I</td>
<td>3</td>
</tr>
<tr>
<td>CM A202</td>
<td>Project Planning and Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>CM A205</td>
<td>Construction Safety</td>
<td>3</td>
</tr>
<tr>
<td>CM A213</td>
<td>Civil Technology</td>
<td>4</td>
</tr>
<tr>
<td>CM A231</td>
<td>Structural Technology</td>
<td>4</td>
</tr>
<tr>
<td>CM A263</td>
<td>Civil Construction Cost Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CM A295</td>
<td>Construction Management Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

2. A total of 65/66 credits is required for the degree.

BACHELOR OF SCIENCE,
CONSTRUCTION MANAGEMENT

PROGRAM OUTCOMES

Graduates will be able to:

- Manage the principal resources of a construction industry organization including its workers, equipment, time, and budgets.
- Represent the role of the constructor in the multi-discipline team responsible for managing construction projects.
- Assess project risk and evaluate alternate project delivery systems for project procurement and construction.
- Communicate effectively with project design professionals during the planning phases of design-build projects and throughout the construction phase of all projects.
- Utilize knowledge of materials, methods, and equipment operations to plan, control, and analyze the results of construction processes.
- Manage construction operations in unique and changing conditions to produce measured results that meet stated quality criteria and overall project goals.

ADMISSIONS REQUIREMENTS

1. Satisfy the requirements under Admission to Baccalaureate Programs in Chapter 7, Academic Standards and Regulations.
2. Certain courses require prerequisites or faculty permission. See an academic advisor for further information.

GRADUATION REQUIREMENTS

In order to receive the Bachelor of Science in Construction Management, students must achieve a grade of C or better in all courses required for the degree.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for All Baccalaureate Degrees located at the beginning of this chapter.
2. Complete the General Education Requirements for Baccalaureate Degrees at the beginning of this chapter.

REQUIRED SUPPORT COURSES

1. Complete the following support courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT A201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT A202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BA/JUST A241</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>*ECON A201</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>*ECON A202</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>*ENGL A212</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ES A411</td>
<td>Northern Design</td>
<td>3</td>
</tr>
<tr>
<td>GEO A155</td>
<td>Fundamentals of Surveying</td>
<td>3</td>
</tr>
<tr>
<td>*MATH A107</td>
<td>College Algebra (4) and 6/7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>*MATH A108 Trigonometry (3) or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>*MATH A109 Precalculus (6)</td>
<td></td>
</tr>
<tr>
<td>*PHIL A301</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>*PHYS A123/L</td>
<td>Basic Physics I with lab</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Complete one of the following science courses:

- *CHEM A105/L General Chemistry I with lab (4)
- *CHEM A106/L General Chemistry II with lab (4)
- *GEOL A111 Physical Geology (4)
- *100-level in CHEM, ENVI, GEOL, or PHYS (3 credits)

3. Complete one additional science course at or above the

4. Complete one of the following:

- *MATH A200 Calculus (4)
- *MATH A272 Applied Calculus (3)
- *STAT A253 Applied Statistics for the Sciences (4)

*Note: Required Support Courses may also be used to satisfy General Education Requirements.

MAJOR REQUIREMENTS

1. Complete the following required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM A101</td>
<td>Fundamentals of CADD for Building Construction</td>
<td>4</td>
</tr>
<tr>
<td>CM A102</td>
<td>Methods of Building Construction</td>
<td>3</td>
</tr>
<tr>
<td>CM A123</td>
<td>Codes and Standards</td>
<td>3</td>
</tr>
<tr>
<td>CM A142</td>
<td>Mechanical and Electrical Technology</td>
<td>4</td>
</tr>
<tr>
<td>CM A163</td>
<td>Building Construction Cost Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CM A201</td>
<td>Construction Project Management I</td>
<td>3</td>
</tr>
<tr>
<td>CM A202</td>
<td>Project Planning and Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>CM A205</td>
<td>Construction Safety</td>
<td>3</td>
</tr>
<tr>
<td>CM A213</td>
<td>Civil Technology</td>
<td>4</td>
</tr>
<tr>
<td>CM A231</td>
<td>Structural Technology</td>
<td>4</td>
</tr>
<tr>
<td>CM A263</td>
<td>Civil Construction Cost Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CM A301</td>
<td>Construction Project Management II</td>
<td>3</td>
</tr>
<tr>
<td>CM A313</td>
<td>Soils in Construction</td>
<td>3</td>
</tr>
<tr>
<td>CM A331</td>
<td>Statics &amp; Strengths of Materials</td>
<td>3</td>
</tr>
<tr>
<td>CM A401</td>
<td>Construction Law</td>
<td>3</td>
</tr>
<tr>
<td>CM A422</td>
<td>Sustainability in the Built Environment*</td>
<td>3</td>
</tr>
<tr>
<td>CM A440</td>
<td>Financial Management for Construction Practice*</td>
<td>3</td>
</tr>
<tr>
<td>CM A450</td>
<td>Construction Management Professional</td>
<td>3</td>
</tr>
<tr>
<td>CM A460</td>
<td>Construction Equipment Management and Methods</td>
<td>3</td>
</tr>
<tr>
<td>CM A495</td>
<td>Advanced Construction Management Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

*Note: Tier 3 General Education Requirement, integrative capstone.

2. A total of 123/125 credits is required for the degree of which 42 credits must be upper division.

ACCREDITATION

All necessary steps will be taken for successful accreditation by the American Council for Construction Education (ACCE).

FACULTY

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Peter Dedych, Assistant Professor, dedych@uaa.alaska.edu
Donald Ketner, Assistant Professor, AFDAK@uaa.alaska.edu
Alan Peabody, Assistant Professor, AFABP1@uaa.alaska.edu

CULINARY ARTS

Lucy Cuddy Hall (CUDY), Room 126, (907) 786-4728
www.uaa.alaska.edu/ctc/culinary

The Culinary Arts and Hospitality Division offers two degrees: an Associate of Applied Science (AAS) degree in Culinary Arts, and a Bachelor of Arts degree in Hospitality and Restaurant Management (BA). Additionally, this division offers an 18-credit minor in Nutrition.

Persons employed in the foodservice industry who wish to update skills and knowledge may take culinary courses for professional development.

*PHYS A123/L Basic Physics I with lab (4)
development. Students are strongly encouraged to contact a faculty advisor about prerequisites and other lab or course requirements.

The Culinary Arts and Hospitality and Restaurant Management programs provide students the opportunity to acquire the culinary skills, management skills, and hospitality finesse needed to develop a career in the expanding hospitality and foodservice industry. An array of career possibilities is available to graduates in the areas of culinary production and professional management in restaurants, clubs, bakeries, hotels, hospitals, camps, catering facilities, institutions, tourism, and other related operations.

The AAS degree generally takes two years of full-time study to complete. With additional culinary electives, students may focus their studies in culinary/bakery, management, or hospitality. In the third or fourth semester, the capstone experience for the AAS degree is a 225-hour internship designed to provide direct hands-on advanced culinary experience. Arranged by the department, culinary internships are unpaid work experiences at an approved foodservice site. Through a study abroad agreement, students have the option of studying abroad for one semester at the prestigious Italian Culinary Institute of Florence.

The bachelor’s degree generally takes four to five years of study to complete. In addition to general education requirements, students will complete a culinary core, a business core, and then have the option to complete an emphasis study core in hospitality, hotel, restaurant management, convention and catering management, or tourism at the University of Nevada Las Vegas (UNLV) or Northern Arizona University (NAU). Or, students may complete a nutrition emphasis study core at UAA. The study cores at either UNLV or NAU require two semesters to complete; students have the option of attending UNLV or NAU or may complete the coursework via distance delivered courses. Please note that students may have to pay nonresident tuition for out of state study if they do not apply for National Student Exchange (NSE).

The capstone experience for the bachelor’s degree is a 600-hour Alaska internship offered through UAA and designed to provide direct hands-on hotel and restaurant operations management experience during the fourth or fifth year. Arranged by the department, internships are paid work experiences at an approved site.

To help students move efficiently through the program, the department requires specific admissions and advising procedures outlined below. An approved placement test is required for admission and, while not used for placement, is used to advise students of potential difficulties in selected courses.

With application to the program, students open a personal portfolio used to monitor and track student progress and house transcripts, resumes, letters of reference, certificates of completion, scholarship information, evidence of computer competency, internship and job placement, and any other related career planning or placement materials. Students may use their portfolios to apply for scholarships, jobs, or for other personal or professional development.

ASSOCIATE OF APPLIED SCIENCE, CULINARY ARTS

The Culinary Arts program produces graduates who are not just prepared for entry-level work positions in the rapidly expanding and varied foodservice, hospitality and tourism industry, but also graduates who can quickly advance in career opportunities because of their formal training and education.

PROGRAM OUTCOMES

At the completion of this program, students are able to:

1. Apply theories and concepts of baking and implement techniques to operate or function in a commercial bakery.

2. Apply theories and concepts of cooking and implement techniques to operate or function in a commercial kitchen.

3. Identify sanitation and safety codes and procedures necessary to maintain a safe foodservice facility.

4. Analyze food cost and implement necessary controls necessary to maintain costs and ensure profitability.

5. Demonstrate the ability to use human resource management and facility operation management concepts to ensure safety, customer service and profitability.

ADMISSION REQUIREMENTS

1. Satisfy the Admission to Associate of Applied Science Degree Programs Requirements in Chapter 7 of this catalog.

2. Request an admission and advising packet. Complete and return the application form to the department. This form opens an individual student portfolio, which is used to advise and counsel students throughout their program of study and to contain important career planning and placement materials.

ADVISING

1. Contact the Culinary Arts department by calling (907) 786-4728, for an appointment with a faculty advisor to plan a personal program of study.

2. Contact Advising and Testing (786-4500) to take a UAA-approved placement test of mathematics, reading, and writing skills. Place a copy of the results in the department portfolio. SAT, ACT and other postsecondary transcripts may also be submitted to the department. These records will be used for advising only.

ACADEMIC PROGRESS REQUIREMENTS

Core Requirements

Full-time and part-time students must successfully complete the 12-credit core curriculum as a prerequisite to enrolling in culinary and bakery skill development laboratory courses. The core consists of the following courses (note each course must be completed with a grade of C or higher):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA A101</td>
<td>The Hospitality Industry: Careers, Trends and Practices</td>
<td>2</td>
</tr>
<tr>
<td>CA A104</td>
<td>Sanitation</td>
<td>2</td>
</tr>
<tr>
<td>CA A107</td>
<td>Cost Control</td>
<td>3</td>
</tr>
<tr>
<td>CA A110</td>
<td>Quantity Food Purchasing</td>
<td>2</td>
</tr>
<tr>
<td>DN A101</td>
<td>Principles of Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.

GENERAL COURSE REQUIREMENTS

Complete the Associate of Applied Science General Course Requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses: 25

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA A103</td>
<td>Culinary Skill Development</td>
</tr>
<tr>
<td>CA A111</td>
<td>Bakery Skill Development</td>
</tr>
<tr>
<td>CA A201</td>
<td>A la Carte Kitchen</td>
</tr>
<tr>
<td>CA A202</td>
<td>Advanced Bakery</td>
</tr>
<tr>
<td>CA A223</td>
<td>Advanced Foods: Buffet and Garde Manger</td>
</tr>
<tr>
<td>CA A224</td>
<td>Hospitality Service</td>
</tr>
<tr>
<td>CA A230</td>
<td>Foodservice Management</td>
</tr>
</tbody>
</table>

2. Complete a minimum of 8 credits from the following: 8

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA A114</td>
<td>Beverages Management</td>
</tr>
<tr>
<td>CA A225</td>
<td>Hospitality Concept Design</td>
</tr>
<tr>
<td>CA A295C</td>
<td>Foodservice Internship</td>
</tr>
<tr>
<td>DN A260</td>
<td>Food Science</td>
</tr>
</tbody>
</table>

Chapter 10 Page 188 University of Alaska Anchorage 2009-2010 Catalog
**BACHELOR OF ARTS, HOSPITALITY AND RESTAURANT MANAGEMENT**

The Hospitality and Restaurant program produces graduates who are not only prepared for entry-level work positions in the rapidly expanding and varied foodservice, hospitality and tourism industry, but also who can confidently advance to middle and upper level management opportunities because of their formal training and education.

**PROGRAM OUTCOMES**

At the completion of this program, students are able to:

1. Apply theories and concepts of baking and cooking and implement necessary techniques to operate or function in a commercial kitchen and bakery.
2. Demonstrate ability to practice concepts of customer service and operate front desk operations for lodging venues.
3. Analyze the food, beverage and lodging cost-control cycle and accounting practices, and implement controls to maintain costs and ensure profitability.
4. Demonstrate the ability to implement sales, marketing and promotion, and utilize resources to develop and implement marketing plans for foodservice, lodging, and tourism venues.
5. Discuss the importance of the manager’s role and ethics associated with executive management and how they lead and inspire staff to achieve mission and goals.
6. Identify health, building, and fire codes and implement requirements to maintain a safe hospitality environment.

**ADMISSION REQUIREMENTS**

1. Complete the Admission to Baccalaureate Programs Requirements in Chapter 7 of this catalog.
2. Request an admission and advising packet. Complete and return the application form to the department. This form opens an individual student portfolio which is used to advise students throughout their program of study and to contain important career planning and placement materials.

**ADVISING**

Contact the Culinary Arts and Hospitality Department by calling (907) 786-4728, for an appointment with a faculty advisor to plan a personal program of study.

Contact Advising and Testing (786-4500) to take a UAA-approved placement test of mathematics, reading, and writing skills. Place a copy of the results in the department portfolio. SAT, ACT and other postsecondary transcripts may also be submitted to the department. These records will be used for advising only.

**DEGREE REQUIREMENTS**

1. Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.
2. Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.
3. Students are highly encouraged to coordinate their course selection with the program academic advisor. Some courses that may fulfill General Education Requirements and baccalaureate requirements are prerequisites to required business core courses. To avoid taking additional courses later, it is highly recommended students complete ECON A201 and ECON A202.
4. A minimum of 3 credits of General Education Requirements must be at the 300- or 400-level to meet the upper division credit requirements for this degree.
5. Complete the Culinary Core, Business Core and one of the three emphasis study cored options listed below.

**MAJOR REQUIREMENTS**

1. **Culinary Core**
   
   Complete all of the following courses (31 credits):
   
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA A101</td>
<td>Hospitality industry: Careers, Trends, and Practices</td>
<td>2</td>
</tr>
<tr>
<td>CA A103</td>
<td>Culinary Skill Development</td>
<td>4</td>
</tr>
<tr>
<td>CA A104</td>
<td>Sanitation</td>
<td>2</td>
</tr>
<tr>
<td>CA A107</td>
<td>Cost Control</td>
<td>3</td>
</tr>
<tr>
<td>CA A110</td>
<td>Quantity Food Purchasing</td>
<td>2</td>
</tr>
<tr>
<td>CA A111</td>
<td>Bakery Skill Development</td>
<td>4</td>
</tr>
<tr>
<td>CA A201</td>
<td>A la Carte Kitchen</td>
<td>4</td>
</tr>
<tr>
<td>CA A202</td>
<td>Advanced Bakery</td>
<td>4</td>
</tr>
<tr>
<td>CA A224</td>
<td>Hospitality Service</td>
<td>3</td>
</tr>
<tr>
<td>CA A225</td>
<td>Hospitality Concept Design</td>
<td>3</td>
</tr>
</tbody>
</table>

   Note: To meet prerequisites, these courses must be taken in a certain sequence. You are encouraged to plan your course schedule with the program advisor.

2. **Business Core**
   
   Complete all of the following courses (30 credits):
   
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT A201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT A202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BA A300</td>
<td>Organizational Theory and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BA A343</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BA A361</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BA A381</td>
<td>Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BA A463</td>
<td>Promotion Management</td>
<td>3</td>
</tr>
<tr>
<td>BA A488</td>
<td>The Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>CIS A110</td>
<td>Computer Concepts in Business</td>
<td>3</td>
</tr>
<tr>
<td>STAT A252</td>
<td>Elementary Statistics (3)</td>
<td>3</td>
</tr>
</tbody>
</table>

   Note: Other nutrition, culinary arts, or business courses may be considered for credit in the elective area by petition. See your program academic advisor.

3. There are three emphasis study core options in this degree program. In addition to General Education Requirements; students will complete a culinary core, a business core and then have the option to complete an emphasis study core in hospitality, hotel, restaurant management, convention and catering management or tourism at the Northern Arizona University (NAU) or University of Nevada Las Vegas (UNLV). Or, students may complete a nutrition emphasis study core at UAA. The emphasis study cores at either NAU or UNLV require two semesters to complete; students have the option of attending NAU or UNLV or may complete the coursework via distance delivered courses. Please note that students may have to pay nonresident tuition for out of state study if they do not apply for National Student Exchange (NSE).

   Two semesters prior to transferring to either NAU or UNLV students are highly encouraged to apply for NSE. UNLV requires transfer students to have an overall GPA of 2.50. (Special note: It is possible to complete NAU or UNLV coursework via distance delivery. This requires special coordination with the program academic advisor).

   **Northern Arizona University (NAU)**

   **Hospitality Core (24 credits):**

   a. Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HA 335</td>
<td>Hospitality Law</td>
<td>3</td>
</tr>
<tr>
<td>HA 345</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>HA 355</td>
<td>Food and Beverage Cost Control</td>
<td>3</td>
</tr>
<tr>
<td>HA 400</td>
<td>Hospitality Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>HA 490C</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

   (last semester at NAU)
UNDERGRADUATE PROGRAMS, COMMUNITY AND TECHNICAL COLLEGE

DENTAL ASSISTING

Allied Health Sciences Building (AHS), Room 160, (907) 786-6929
http://alliedhealth.uaa.alaska.edu/da

The Dental Assisting program, as part of the Allied Health Sciences department, prepares students to become skilled members of the dental health care team. Assistants greatly increase the efficiency of the dentist in the delivery of oral health care and are valuable members of the dental care team.

The duties of the dental assistant are among the most comprehensive and varied in the dental office. The dental assistant performs a wide range of tasks requiring both interpersonal and technical skills. Some specific tasks dental assistants may perform include: assisting the dentist during a variety of procedures; providing oral health care; exposing and processing radiographs (X-rays); recording the patient’s medical history and vital signs; preparing and sterilizing the proper instruments and equipment for the dentist’s use; providing the patient with post-operative instructions, taking impressions for study casts; performing office management tasks; and performing basic dental laboratory tasks.

Many types of practice settings are available to dental assistants. An assistant may choose to work in a private practice or a group practice. In addition, an assistant can work in a general dentistry or specialty practice, such as oral and maxillofacial surgery, orthodontics, endodontics, periodontics, prosthodontics, or pediatric dentistry. Job opportunities also exist in public health facilities, federal government facilities, hospitals, dental school clinics, insurance companies, and vocational schools or community colleges and universities teaching others to become dental assistants.

The Dental Assisting program offers a 34-credit certificate and an Associate of Applied Science Degree.

The Dental Assisting program is accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and by the United States Department of Education. As a result of this, graduates are body recognized by the Council on Postsecondary Accreditation and by the United States Department of Education. As a result of this, graduates are eligible to take the Dental Assisting National Board examination and upon successful completion will become certified dental assistants.

ADVISING

Special admission requirements apply. Interested individuals must contact the advisor in the Department of Dental Assisting to review procedures and requirement for admission.

APPLICATION PROCEDURE

1. Complete a dental assisting application form and mail to:
   UAA Dental Assisting Program
   Allied Health Sciences Building, Room 160
   3211 Providence Drive
   Anchorage AK 99508-8371
   (907) 786-6929

2. Complete UAA approved English and mathematics placement tests. Contact Advising and Testing at (907) 786-4500 for testing times. If test scores are low, additional coursework will be recommended to help you achieve your goal of completing the Dental Assisting program.

3. Two letters of recommendation sent to the Dental Assisting program (on the required forms) are mandatory. Preferably these letters should come from former or current employers or instructors.

4. The information listed above must be in applicant’s file before they will be considered for admission in the program in the fall semester of the year applying.

Selection Criteria – Applicants with a complete file are selected for admission based upon their test scores, grades in high school and college, ability to complete the application process, and dental assisting experience.

FACULTY

Timothy Doebler, Director, AFTWD@uaa.alaska.edu
Anne Bridges, Associate Professor, AFAB@uaa.alaska.edu
Amy Green, Assistant Professor, AFAMG@uaa.alaska.edu
Carrie King, Assistant Professor, AFCDK@uaa.alaska.edu
Vern Wolfram, Instructor, AFVAW@uaa.alaska.edu
Naomi Everett, Instructor, AFNSE@uaa.alaska.edu

b. Additionally, complete three courses from the following: 9
   1. HA 340 Beverage and Bar Operations (3)
      (Must be 21 or older)
   2. HA 390 International Hospitality Operations (spring/fall) (3)
   3. HA 401 Resort Management (spring) (3)
   4. HA 435 Hospitality Litigation (fall) (3)
   5. HA 442 Advanced Food & Beverage Management (3)
   6. HA 477 Casino Management (fall) (3)

II. University of Nevada Las Vegas (UNLV)

Hospitality Core (24 credits):
   a. Complete the following:
      1. HMD 114 Lodging Operations 3
      2. HMD 202 Exec. Planning/Housekeeping Operations 3
      3. HMD 395 Facilities Management 3
      4. HMD 401 Hotel Law 3
      5. HMD 410 Hospitality Security/Preservation of Assets 3
      6. TCA 379 Catering Sales and Operations 3
      7. TCA 385 Convention Service Management 3
      8. HMD or TCA Elective (300 level or higher) 3

III. University of Alaska Anchorage

Nutrition Core (24 credits):
   a. Complete the following:
      1. DN A145 Child Nutrition 3
      2. DN A147 Geriatric Nutrition 3
      3. DN A155 Survey of Alaska Native Nutrition (3) 3
      4. DN A215 Sports Nutrition (3) 3
      5. DN A303 Preventive and Therapeutic Nutrition 3
      6. DN A315 World Food Patterns 3
      7. DN A350 Foodservice Systems and Quantity Foods 3
      8. DN A355 Weight Management and Eating Disorders 3
      9. DN A450 Dietetic Management 3

Note: The Nutrition Core can be completed entirely online through UAA.

5. Internship Requirement
   CA A495 Hospitality Internship 6
If test results are low and classes are recommended to improve reading comprehension levels, applicants will be advised and proof of successful course completion must be provided prior to acceptance into the program.

Expenses beyond tuition include activity fees, uniforms, lab fees, student organization membership, immunizations, cost of Basic Life Support (BLS) class, licensure fees, and student health insurance.

Immunizations and BLS certification are required prior to clinical participation. Adult, infant and child CPR certification and immunizations must be current throughout the program. Students must be free of tooth decay and active periodontal disease.

**Undergraduate Certificate, Dental Assisting**

**Admission Requirements**

See Admission to the Program and Application Procedure above.

**Certificate Requirements**

**Fall Semester**

- DA A101 Essentials of Dentistry 3
- DA A102 Infection Control in Dentistry 3
- DA A110 Dental Radiography 3
- DA A110L Dental Radiography Lab 1
- DA A127 Dental Practice Management and Professionalism 3
- DA A130 Chairside Techniques I 4

**Spring Semester**

- DA A150 Biomedical and Dental Sciences for Dental Assistants 3
- DA A160 Materials in Dentistry 3
- DA A195A Dental Assisting Practicum I 1
- DA A201 Chairside Techniques II 4
- DA A202 Dental Specialties for Dental Auxiliaries 3

**Summer Semester**

- DA A295A Clinical Practicum II 3

**Associate of Applied Science, Dental Assisting**

**Admission Requirements**

See Admission to the Program and Application Procedure above.

**General University Requirements**

1. Complete the General University Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science General Course Requirements (15 credits) located at the beginning of this chapter. (Completion of Biology and Psychology fulfill the requirement of 6 credits of mathematics, humanities, social sciences or natural sciences.)

**Major Requirements**

1. Complete the required courses for the Dental Assisting Undergraduate Certificate as outlined above. 34
2. Complete one of the following Biology courses 4
   - BIOL A102 Introductory Biology (3) and
   - BIOL A103 Introductory Biology Laboratory (1) or
   - BIOL A111 Human Anatomy and Physiology I (4) or
   - BIOL A115 Fundamentals of Biology (4)

3. Complete one of the following Nutrition Courses 3
   - DN A101 Principles of Nutrition (3)
   - DN A203 Nutrition for Health Sciences (3)

4. Complete one of the following courses 3
   - PSY A111 General Psychology (3)
   - PSY A150 Lifespan Development (3)
   - PSY/ HUMS A153 Human Relations (3)

5. Electives 7

   Recommended courses include:
   - CIS A105 Introduction to Personal Computers and Application Software (3)
   - DA A295B Clinical Practicum III (2)
   - MA A101 Medical Terminology I (3)
   - General Education Requirements (GER) for Baccalaureate Degrees

6. A total of 60 credits is required for the degree.

**Faculty**

Cindy Armstrong, Term Assistant Professor, AFCLA@uaa.alaska.edu
Nancy Bish, Associate Professor, AFNKB@uaa.alaska.edu
Stephanie Olson, Assistant Professor, AFSMO1@uaa.alaska.edu

**Dental Hygiene**

**Allied Health Sciences Building (AHS), Room 160, (907) 786-6929**

www.uaa.alaska.edu/ctc/alliedhealth/dh

The registered dental hygienist is a licensed oral health educator and clinical operator who, as part of the dental team, uses preventive, educational, and therapeutic methods which aid individuals and groups to attain and maintain optimum oral health. Dental hygienists can work as clinicians, educators, researchers, administrators, managers, preventive program developers, consumer advocates, sales and marketing managers, editors, and consultants. Clinical dental hygienists may work in a variety of health care settings such as private dental offices, schools, public health clinics, hospitals, managed care organizations, correctional institutions, or nursing homes.

The Dental Hygiene program is accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and by the United States Department of Education. The Associate of Applied Science degree is a three-year endeavor comprising one year of science and general education courses and two years of coursework in dental hygiene. The program prepares graduates clinically and academically to take the National and Western Regional Examining Boards (WREB) for licensure.

Clinical dental hygiene requires the ability to sit for long periods of time, good to excellent eye-hand coordination, and excellent fine hand motor skills. Dental hygienists are exposed to bacteria and viruses. Use of protective glasses, face masks and surgical type gloves is required. A professional appearance must be maintained during preclinical and clinical sessions.

Transfer of credits may be possible to graduates of an American Dental Association (ADA) accredited dental assisting program. Contact the Dental Hygiene program advisor for details.

Some expenses beyond tuition generally include activity fees, instruments, uniforms, lab fees, student organization membership, graduation pin, immunizations, cost of cardiopulmonary resuscitation (CPR) class, licensure fees, student health insurance, and malpractice insurance for the Western Regional Examining Boards and professional liability insurance.
Once enrolled as a dental hygiene student, the student can anticipate a four-semester, 40-hour-per-week endeavor. Some evening classes and clinics are scheduled.

ASSOCIATE OF APPLIED SCIENCE, DENTAL HYGIENE

DESCRIPTION AND OUTCOMES

This degree program prepares students to sit for the ADA National Board Dental Hygiene Examination (written examination) and the WREB Dental Hygiene Examination (clinical examination), and the WREB Anesthesia Examination (written and clinical) so that they are able to work in the dental hygiene field. At the completion of the program, students are able to:

1. Provide dental hygiene care in a legal and ethical manner.
2. Exhibit professional behavior, including time management, risk management, and respect of patients and co-workers.
3. Evaluate scientific literature.
4. Collect, analyze, and record data on the general and oral health status of patients.
5. Use critical decision making skills to develop a dental hygiene diagnosis, which will provide a basis for interventions that are within the scope of dental hygiene practice and determine the need for referral to appropriate health professions as needed.
6. Formulate a dental hygiene care plan, including a planned sequence of educational, preventive, and therapeutic services based on the dental hygiene diagnosis in collaboration with the patient and other health care providers.
7. Deliver preventive and therapeutic care to achieve and maintain oral health utilizing established infection control procedures, pain control measures, and ergonomic practices.
8. Evaluate the effectiveness of the implemented services, and modify as needed.
9. Promote the profession of dental hygiene through service and affiliations with professional organizations.
10. Provide community oral health services.

ADMISSION REQUIREMENTS

1. Satisfy requirements for admission to Associate Degrees found in Chapter 7 of this catalog.
2. Special admission requirements and application procedures are required. Selection criteria change periodically. Applicants must contact the department for the selection criteria for the year they wish to apply. Completion of the admission requirements does not guarantee selection into the Dental Hygiene program. Applicants transferring credit from another institution should apply to UAA no later than November 1 prior to spring application to Dental Hygiene program students must abide by the university’s Student Code of Conduct, the Dental Hygiene program’s Policies and Procedures, and the American Dental Hygienists’ Association Code of Ethics for Dental Hygienists.

PRECLINICAL AND CLINICAL REQUIREMENTS

Once admitted to the Dental Hygiene program students are required to provide the following by the first day of class:

1. A signed application form indicating the understanding and acceptance of the Dental Hygiene program requirements regarding health screening, vaccinations, and immunizations.
2. Current Health Care Provider (American Heart Association) or Professional Rescuer (American Red Cross) certification in CPR/AED for infants, children, and adults. First year students must present proof of certification at orientation. Certification must be kept current until graduation.

SPECIAL CONSIDERATIONS

Due to the nature of the work, students are not permitted to work in the classroom, laboratory, or clinic when under the influence of intoxicants, drugs, or medication affecting psychomotor responses. Guidelines for Infection Control in Dental-Health Care Settings from the Centers for Disease Control and Prevention will be followed for students with, or exposure to, infectious diseases. As a condition of participation in the Dental Hygiene program students must abide by the university’s Student Code of Conduct, the Dental Hygiene program’s Policies and Procedures, and the American Dental Hygienists’ Association Code of Ethics for Dental Hygienists.

Application for obtaining an Alaska dental hygiene license requires information concerning illegal activity, crimes, hospitalization history regarding emotional or mental illness, drug addiction, alcoholism, and contagious diseases. If these are issues for the applicant, it is highly recommended the applicant contact the Alaska Department of Occupational Licensing or a similar government agency in any state in which the applicant wants to practice. The UAA Dental program application requires information concerning disciplinary actions taken at any university or college.
1. Complete the following required courses with a minimum grade of C:

**Fall Semester 1st year**
- DA A110/110L Dental Radiography with lab 4
- DH A201 Oral Histology and Embryology 2

2. Complete the General University Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.

3. Complete the Associate of Applied Science General Course requirement, which is recommended.

4. Due to a heavy credit load, it is recommended that the nutrition course be taken prior to formal admission into the Dental Hygiene Program.

5. Submit official transcripts (non-UA) and request transcript credit evaluation must be completed by the application deadline date.

6. Submission of current Health Occupations Basic Entrance Test (HOBET) scores to the UAA Dental Hygiene program no later than the application date.

In order to satisfy clinical requirements, students are responsible for providing both adult and child patients.

**APPLICATION PROCEDURE**

To be considered for fall admission into the program, the application process must be completed by the deadline date posted on the program's website.

1. Complete the Dental Hygiene program application and submit to the address below.
2. Provide proof of admittance into the University of Alaska Anchorage as a premajor dental hygiene student.
3. Submit official transcripts (non-UA) and request transcript credit evaluation (for non-UA transcripts) to UAA Enrollment Management. Proof of completion of the courses listed under Admission Requirements 3 and 4 through transcript submission and transcript credit evaluation must be completed by the application deadline date.
4. Three letters of recommendation sent to the Dental Hygiene program on the provided forms.
5. Submission of current Health Occupations Basic Entrance Test (HOBET) scores to the UAA Dental Hygiene program no later than the application date.

Information and applications can be obtained by contacting:

UAA Dental Hygiene Program
Allied Health Sciences Building, Room 160
3211 Providence Drive
Anchorage, AK 99508-8371
Please call (907) 786-6929
www.uaa.alaska.edu/ctc/alliedhealth/dh/

**ADVISING**

Students should contact the Dental Hygiene program advisor for details.

**ACADEMIC PROGRESS**

Students must earn at least 75 percent or higher in each dental hygiene course.

**DEGREE REQUIREMENTS**

1. Complete the General University Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science General Course Requirements located at the beginning of this chapter (ENGL A212 is recommended).
3. Complete the Major Requirements listed below.

**MAJOR REQUIREMENTS**

1. Complete the following required courses with a minimum grade of C:

   **Fall Semester 1st year**
   - DA A110/110L Dental Radiography with lab 4
   - DH A201 Oral Histology and Embryology 2

   **Spring Semester 1st year**
   - DA A222 Adjunctive Techniques for Dental Hygienists 1.5
   - DH A292D Clinical Seminar I 1
   - DH A295D Clinical Practicum I 4
   - DH A311 Periodontics 2
   - DH A365 Pharmacology for Dental Hygienists 2

   **Fall Semester 2nd year**
   - DA A310 Oral Pain Control 3
   - DA A312 Advanced Techniques for Dental Hygienists 3
   - DA A314 Pathology of Oral Tissues 2
   - DA A321 Current Periodontal Therapies 2
   - DH A392C Clinical Seminar II 1
   - DH A395C Clinical Practicum II 5

   **Spring Semester 2nd year**
   - DH A316 Professional Dental Hygiene Practice 1.5
   - DA A324 Community Dental Health I 2
   - DH A392D Clinical Seminar III 1
   - DH A395D Clinical Practicum III 6

2. A total of 73 credits is required for the degree.

**FACULTY**

Elizabeth Barnett, Assistant Professor, barnett@uaa.alaska.edu
Victoria Martin, Instructor, AFVMH2@uaa.alaska.edu
Sandra Pence, Assistant Professor, pence@uaa.alaska.edu

**FIRE AND EMERGENCY SERVICES TECHNOLOGY**

Allied Health Science Building (AHS), Room 165, (907) 786-6476
www.uaa.alaska.edu/ctc/alliedhealth/fire

The Fire and Emergency Services Technology program provides entry-level knowledge and skills for students planning a career in emergency services as well as knowledge and skill for the career firefighter.

**PROGRAM OUTCOMES**

Graduates of the Fire and Emergency Services Technology program are prepared to:

- Discuss the history, support organizations, resources, incident management, training, and emergency operations and relate how each plays a role within emergency services.
- Define and use basic terms and concepts associated with the chemistry and dynamics of fire.
- Relate how fire prevention and fire inspections are connected.
- Demonstrate the importance of public education in relation to fire prevention.
- Identify the equipment and systems used in control and extinguishment of fire.
- Identify the five types of building construction and their uniqueness under fire conditions.
- Calculate water flow, friction loss, and gallon per minute flow for a given scenario.
The Associate of Applied Science degree has a technical core which follows the National Fire Academy’s Fire and Emergency Service Higher Education’s model core curriculum for two-year degree programs. The technical core consists of courses in principles of emergency services, building construction, fire prevention, fire hydrantics, protection systems, and fire behavior and combustion. Each student must complete the technical core as well as Math A105 or higher, a natural science with lab, and remaining UAA AAS general education requirements. The student also has four options from which to choose: Fire Suppression, Fire Administration, Emergency Medical Services, or Wildland Firefighting. It may take more than two years to complete the degree.

For baccalaureate degree options, contact a Fire and Emergency Services advisor.

**ADVISING**

All students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

**ASSOCIATE OF APPLIED SCIENCE, FIRE AND EMERGENCY SERVICES TECHNOLOGY**

**ADMISSION REQUIREMENTS**

Satisfy the Admission to Certificate and Associate Degree Programs Requirement in Chapter 7, Academic Standards and Regulations. Although it is not required, it is highly recommended that students be a member of a paid or volunteer fire department prior to or shortly after being admitted to the program.

**ACADEMIC PROGRESS**

In order to progress within the Associate of Applied Science Fire and Emergency Services Technology program, students must earn a satisfactory grade (C or higher or S) in all Fire and Emergency Service (FIRE) courses required for the degree.

**DEGREE REQUIREMENTS**

1. Complete the General University Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science General Degree Requirements located at the beginning of this chapter.
3. Complete the Major Requirements listed below.

**MAJOR REQUIREMENTS**

1. Complete the following required courses (28 credits):
   - FIRE A101 Principles of Emergency Services 3
   - FIRE A105 Fire Prevention 3
   - FIRE A121 Fire Behavior and Combustion 3
   - FIRE A202 Fire Protection Hydraulics and Water Supply 3
   - FIRE A206 Building Construction for Fire Protection 3
   - FIRE A214 Fire Protection Systems 3
   - MATH 105 Intermediate Algebra or Higher 3
   - Natural science w/lab (recommend CHEM 103/L) 4
   - Social science (PS, PSY, or SOC) 3
   - Math, natural science, and social science may also meet AAS General Course Requirements.
2. Complete 12 credits in one of the following options:
   **Fire Suppression - Option 1**
   - FIRE A107 Strategy and Tactics 3
   - FIRE A117 Rescue Practices (3) 3
   - FIRE A151 Wildland Fire Control I (3)
   - FIRE A123 Fire Investigation I 3
   - FIRE A203 Hazardous Materials Chemistry I 3
   or
   **Emergency Medical Services - Option 2**
   - FIRE A117 Rescue Practices (3)
   - FIRE A151 Wildland Fire Control I 3
   - FIRE A170 Occupational Safety and Health for Fire Service 3
   - FIRE A201 Principles of Emergency Management (3) 3
   or
   - FIRE A230 Fire Department Organizational Theory and Behavior (3)
   - FIRE A220 Legal Aspects of Emergency Services 3

3. Complete an additional 11 credits from any FIRE, FSA, or EMT course or from the general education list that will lead towards a baccalaureate degree. (Advisor approval required for general education courses) 11
4. A total of 60 credits is required for the degree.

**FACULTY**

Gail Warner, Assistant Professor/Program Coordinator, AFTGO@uaa.alaska.edu

**HEALTH, PHYSICAL EDUCATION & RECREATION**

**Eugene Short Hall (ESH), Room 125, (907) 786-4083**

www.uaa.alaska.edu/ctc/hper

The Department of Health, Physical Education & Recreation is committed to excellence in offering courses within the discipline of physical education and related disciplines. The courses provide the foundation for an undergraduate major that prepares students for leadership roles in health and fitness or adventure education as well as minors and occupational endorsement certificates within in the discipline. In addition, the department offers a variety of courses for students from other fields who wish to learn new physical skills and/or develop personal wellness.

**ENROLLING IN HEALTH, PHYSICAL EDUCATION & RECREATION COURSES**

**Acknowledgement of Risk, Release of Liability and Medical Questionnaire Form:** During the first class session, students will receive information about the course. A verbal description will be provided about the inherent risks associated with specific areas and activities. Students may be asked to complete one or all of the following: acknowledgement of risk forms, release of liability statements and provide personal medical information and numbers. Students may be asked to obtain a physical examination and medical consent from a health professional before participation in classes.

**Minors:** Sixteen- and 17-year-old students must receive department chair approval before they will be allowed to enroll in courses. Students under 16 cannot enroll in HPER classes. Approved students must also meet the university’s Secondary School Student Enrollment Requirements (see Chapter 7).
The university or the department reserves the right to deny or discontinue the enrollment of a student in a course or courses if the university or the department determines that the student lacks the maturity, the legal or intellectual ability, or the academic preparedness to participate on an equal footing with other students, or if it is otherwise not in the best interest of the university or the department for the student to participate.

Behavioral Expectations:
Due to the inherent risks involved in activity courses, HPER’s safety and risk management policies and procedures are strictly enforced. Students are expected to comply with all policies and procedures. HPER reserves the right to withdraw from a course any student(s) whom a faculty member believes poses a safety risk to themselves or others.

Any financial reimbursements related to such withdrawals are subject to standard university refund policies.

Outdoor/Adventure Courses: The Department of Health, Physical Education & Recreation provides outdoor adventure education through the use of hands-on techniques. Course offerings are diverse and include topics such as backpacking, rock climbing, sea kayaking, winter camping, emergency medicine, and wilderness leadership. Outdoor/adventure classes are held in Alaska’s wilderness, an environment that can pose a risk to even the most experienced outdoor leader.

Students may be required to perform activities in extremely inclement weather i.e. rain, sleet, snow, wind or sub-zero temperatures. Additionally, there is an assumption that a minimum level of physical fitness is needed to succeed in and enjoy many of the activities. Consequently, before enrolling in these courses, students should review the following information.

I. PHYSICAL FITNESS LEVEL:
Many 100-level courses have been designed for the student with an average level of fitness and health; e.g., a student would be expected to comfortably travel five miles over easy terrain. If a higher than average fitness level is required, a special note will identify the necessary level of fitness. 

a. **Good fitness** is defined as above average fitness relative to a typical, healthy adult. Courses that required good fitness will involve a moderate degree of physical activity; may involve travel over challenging terrain; may involve carrying a pack weighing 50 pounds or more; or may involve multiple hours of exercise. A student who is physically or mentally unprepared to withstand a moderate amount of exercise should not enroll in the course.

b. **Excellent fitness** is defined as possessing health of outstanding quality or being in remarkably good physical condition. Excellent fitness is required for expedition courses.

II. VENUE AND TERRAIN DIFFICULTY:
Students will hike and travel in a variety of environments in outdoor/adventure courses. The following breakdown provides an overview of terrain difficulty.

a. **Easy terrain** can be negotiated by novices. Traveling is usually done on well-maintained trail systems; can include hiking, skiing or snowshoeing; elevation gains/losses generally under 500 feet per mile; and stream crossings of calf deep or less. Off-trail touring includes traveling on firm ground over gentle terrain.

b. **Moderate terrain** requires good physical fitness. Traveling is usually done on rugged trails or off trail. The hiking often includes inclines/declines of 500 to 1500 feet per mile. Off-trail travel can include bushwhacking; uneven, wet or marshy ground; scrambling up, over or around small terrain features; and river crossing up to knee deep.

c. **Difficult terrain** requires excellent physical fitness. Traveling is usually done off trail and can include uneven, challenging ground; lack of firm footing; steep tundra, rock or scree; wet, snowy or icy slopes; thigh- to waist-deep river crossings. Specialized gear may be required for travel.

d. **Extremely difficult** requires excellent physical fitness. Traveling is done off trail and participants must be prepared to endure all of the features listed under "difficult terrain" for long hours and potentially multiple days. Specialized gear is usually required for travel.

III. STUDENT HEALTH INSURANCE:
Students enrolling in many outdoor/adventure activity courses are provided with basic health insurance coverage during the field sessions only. This policy is intended to supplement personal policies and does not include the cost of emergency evacuation.

**OCCUPATIONAL ENDORSEMENT CERTIFICATE, FITNESS LEADERSHIP**

The Fitness Leadership Occupational Endorsement Certificate provides students the opportunity to acquire the knowledge and skills necessary to develop a career in the ever changing fitness industry. An array of career possibilities are available to individuals who successfully complete this program in group fitness instruction, personal training, or aquatics fitness instruction.

This comprehensive program provides students with 90 hours of leadership training in exercise theory and practice and 60 hours of training in their chosen fitness specialty or emphasis area; Group Fitness Leader, Personal Trainer, or Aquatics Fitness Instructor. All classes combine current fitness research and training techniques with practical, hands-on teaching experience. This program follows the guidelines established by the American Council on Exercise (ACE) and the American College of Sports Medicine (ACSM).

The Fitness Leadership Occupational Endorsement Certificate is designed to provide quality education and training to individuals interested in working in the fitness industry. Of the required 10 credits, 6 include lecture courses and four are laboratory sessions. The labs are enhanced by practicum experiences that reinforce skills, knowledge, and leadership qualities. Students receive training in basic applied kinesiology and exercise physiology, nutrition and healthy weight loss, injury prevention, fitness assessment, legal considerations, special populations, health screening, leadership and motivation.

**ADMISSION REQUIREMENTS**
Satisfy the UAA admissions requirements for Occupational Endorsement Certificates found in Chapter 7 of this catalog.

**ACADEMIC PROGRESS**
A grade of B or better in each required course with an overall GPA of 3.00 or better.

**OCCUPATIONAL ENDORSEMENT REQUIREMENTS**

1. Complete the following required courses:
   - PEP A115 Introduction to Fitness Leadership 3
   - PEP A215 Issues in Fitness Leadership 3

2. Complete the required courses within one of the following three emphasis areas:
   - **Group Fitness Leader**
     - PEP A116 Techniques in Fitness Instruction I 2
     - PEP A216 Techniques in Fitness Instruction II 2
   - **Personal Trainer**
     - PEP A117 Techniques in Personal Training I 2
     - PEP A217 Techniques in Personal Training II 2
   - **Aquatics Fitness Instructor**
     - PEP A116 Techniques in Fitness Instruction I 2
     - PEP A218 Techniques in Aquatic Fitness Instruction 2

3. Possess current CPR and standard first aid certifications for professionals.

4. A total of 10 credits is required for this certificate.
BACHELOR OF SCIENCE, PHYSICAL EDUCATION
The core of the Bachelor of Science in Physical Education degree emphasizes the broad fundamental principles of physical education including scientific foundations, psychological and cultural aspects, assessment and testing methods, trends, and leadership development in a variety of physical activities. Students may choose to pursue study in one of two emphasis areas within the degree: Health and Fitness Leadership or Adventure Leadership.

The Health and Fitness Leadership emphasis and the Adventure Leadership emphasis prepare students for professional positions in rapidly growing fields. Each emphasis focuses on developing leadership expertise as well as the knowledge, physical skills, and technical competencies to prepare graduates for the job market. The Health and Fitness Leadership emphasis readies students for employment in hospital based health education and fitness programs, community or public health/fitness programs, private health clubs and fitness facilities, corporate fitness/wellness programs, military fitness centers, as personal trainers, or helps them prepare for further education in physical therapy while the adventure leadership emphasis readies graduates for employment with youth or recreational programs, adventure tourism, guide services, camps, schools, or a host of experiential education opportunities.

PROGRAM OUTCOMES
Graduates of the Bachelor of Science in Physical Education will have demonstrated:
• Knowledge of physical education concepts as well as concepts related to a specific area of emphasis.
• Competency in many activity forms and proficiency in a few.
• Ability to apply established national standards in the field(s).
• Proficiency in entry-level discipline specific administrative skills.
• Proficiency in general and discipline specific technologies.
• Effective leadership skills including the abilities to: 1) evaluate and direct/re-direct skillful movement, 2) lead a variety of activities, 3) use appropriate motivational strategies, 4) employ appropriate safety and prevention techniques, 5) exercise sound judgment and good decision-making skills, and 6) effective communication skills.

ADMISSION REQUIREMENTS
1. Complete the Baccalaureate Degree Programs Admission Requirements in this chapter.
2. Meet with a Health, Physical Education & Recreation advisor regarding application, program admission, and development of a program of study.
3. Submit a departmental application for admission to the Department of Health, Physical Education & Recreation.
4. The degree requires computer competency which may be demonstrated by:
a. successful completion of an approved university computer course,
b. work related experience requiring computer competency as approved by faculty or major advisor,
c. demonstrated computer competency as approved by faculty or major advisor.

ADVISING
All students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever difficulties arise.

ACADEMIC PROGRESS
Maintain a 2.50 GPA or higher for the courses within the emphasis and a B or better in the Internship.

DEGREE REQUIREMENTS
1. Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.
2. Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.
3. Complete the Support Courses and the Major Requirements listed below.

REQUIRED SUPPORT COURSES
Complete the following support courses some of which may be used to satisfy the General Education Requirements:
BIOL A111 Human Anatomy and Physiology I 4
BIOL A112 Human Anatomy and Physiology II 4
DN A203 Nutrition for Health Sciences (3) 3
or
DN A215 Sports Nutrition (3)
HS A220 Core Concepts in the Health Sciences 3
PS A111 General Psychology (3) 3
or
PSY A150 Lifespan Development (3)

MAJOR REQUIREMENTS
1. Complete the following core courses (39 credits):
PEP A181 Introduction to Health, Physical Education and Recreation 3
PEP A281 Leadership in Activities for Diverse Populations 2
PEP A282 Leadership in Experiential Initiatives and Activities 2
PEP A283 Leadership in Aquatic Activities 2
PEP A284 Leadership in Fitness Activities 2
PEP A285 Leadership in Team Activities 2
PEP A286 Leadership in Individual and Dual Activities 2
PEP A287 Leadership in Outdoor Recreation Activities 2
PEP A288 Leadership in Rhythmic Activities 2
PEP A382 Kinesiology and Biomechanics 4
PEP A383 Movement Theory and Motor Development 3
PEP A384 Cultural and Psychological Aspects of Health and Physical Activity 3
PEP A385 Physiology of Exercise 4
PEP A486 Standards and Assessment in Health, Physical Education, and Recreation 3
PEP A487 Administration and Supervision in Health, Physical Education and Recreation 3

2. Complete one of the following emphasis areas:
Health & Fitness Leadership (43 credits)
ACCT A201 Principles of Financial Accounting 3
BA A151 Introduction to Business 3
BA A231 Fundamentals of Supervision 3
BA A260 Marketing Practices 3
HS/NS A433 Health Education: Theory & Practice 3
PEP A251 Prevention and Care of Activity-Related Injuries 3
PEP A452 Challenges in Health and Fitness Leadership 1
PEP A453 Health Promotion 2
PEP A454 Exercise Testing and Prescription 3
PEP A455 Cardiac Rehabilitation 3
PEP A456 Contemporary Personal Health Issues 3
PEP A495 Internship in Health and Fitness Leadership 6
PS A101 Introduction to American Government (3) or
PS A102 Introduction to Political Science (3) 3
PS A347 Public Administration 3
Approved elective 1
**Adventure Leadership (47 credits)**

ACCT A201 Principles of Financial Accounting 3
BA A151 Introduction to Business 3
BIOL A104 Natural History of Alaska 3
PEP A161 Wilderness First Responder 4
PEP A262 Foundations of Adventure and Experiential Leadership 3
PEP A363 Natural History Interpretation and Environmental Education 3
PEP A364 Survival and Search and Rescue for Adventure Leaders 3
PEP A365 Adventure Leadership Theory and Practice 3
PEP A466 Organizational Safety and Risk Management 3
PEP A496 Internship in Adventure Leadership 6

Choose one of the following: 3
PER A169 Four-Season Backpacking (3)
PER A182 Alaska Winter Survival (3)

Choose two of the following: 2
PER A151 Beginning Canoeing (1)
PER A152 Beginning River Rafting (1)
PER A153 Beginning Sea Kayaking (1)

Choose two of the following: 2
PER A146 Beginning Rock Climbing (1)
PER A147 Beginning Ice Climbing (1)
PER A148 Beginning Indoor Sport Climbing (1)
PER A181 Crevasse Rescue Techniques (1)
PER A246 Intermediate Rock Climbing (1)

Choose three of the following: 6
PEP A467A Challenge Course Adventure Leadership (2)
PEP A467B Climbing-based Adventure Leadership (2)
PEP A467C Land-based Adventure Leadership (2)
PEP A467D Water-based Adventure Leadership (2)

3. A total of 120-124 credits is required for the degree of which 42 credits must be upper division.

**MINOR, ADVENTURE LEADERSHIP**

Students who wish to minor in Adventure Leadership must complete the following requirements. A total of 22 credits, including 8 upper division credits, is required for the minor. Prerequisites for these courses must also be satisfied. Requires a grade of C or better in PEP A467A or PEP A467C.

1. Complete the following core courses (13 credits):
   - PEP A161 Wilderness First Responder 4
   - PEP A262 Foundations of Adventure and Experiential Leadership 3
   - PEP A364 Survival and Search and Rescue for Adventure Leaders 3
   - PEP A365 Adventure Leadership Theory and Practice 3
   - PEP A169 Four-Season Backpacking (3)
   - PER A182 Alaska Winter Survival (3)

2. Choose one of the following: 3
   - PER A151 Beginning Canoeing (1)
   - PER A152 Beginning River Rafting (1)
   - PER A153 Beginning Sea Kayaking (1)

3. Choose two of the following: 2
   - PER A146 Beginning Rock Climbing (1)
   - PER A147 Beginning Ice Climbing (1)
   - PER A148 Beginning Indoor Sport Climbing (1)
   - PER A181 Crevasse Rescue Techniques (1)
   - PER A246 Intermediate Rock Climbing (1)

**MINOR, COACHING**

Students who wish to minor in Coaching must complete the following requirements. A total of 22 credits, including 10 upper division credits, is required for the minor. Prerequisites for these courses must also be satisfied. Requires a grade of C or better in PEP A130 and sport specific coaching course.

1. Complete the following core courses (20 credits):
   - PEP A130 Introduction to Coaching 3
   - PEP A233 Coaching Track & Field and Running (2)
   - PEP A235 Coaching Swimming and Diving (2)
   - PEP A236 Coaching Skiing (2)
   - PEP A237 Coaching Figure Skating (2)
   - PEP A238 Coaching Gymnastics (2)
   - PEP A239 Coaching Baseball/Softball (2)
   - PEP A240 Coaching Football (2)
   - PEP A241 Coaching Basketball (2)
   - PEP A242 Coaching Soccer (2)
   - PEP A243 Coaching Hockey (2)
   - PEP A244 Coaching Volleyball (2)

2. Choose one of the following: 2
   - PEP A233 Coaching Track & Field and Running (2)
   - PEP A234 Coaching Wrestling (2)
   - PEP A235 Coaching Swimming and Diving (2)
   - PEP A236 Coaching Skiing (2)
   - PEP A237 Coaching Figure Skating (2)
   - PEP A238 Coaching Gymnastics (2)
   - PEP A239 Coaching Baseball/Softball (2)
   - PEP A240 Coaching Football (2)
   - PEP A241 Coaching Basketball (2)
   - PEP A242 Coaching Soccer (2)
   - PEP A243 Coaching Hockey (2)
   - PEP A244 Coaching Volleyball (2)

**MINOR, HEALTH & FITNESS LEADERSHIP**

Students who wish to minor in Health & Fitness Leadership must complete the following requirements. A total of 19 credits, including 6 upper division credits, is required for the minor. Prerequisites for these courses must also be satisfied. Requires a grade of C or better in the courses within the option.

1. Complete the following core courses (15 credits):
   - DN A203 Nutrition for Health Sciences (3)
   - PEP A130 Introduction to Coaching 3
   - PEP A233 Coaching Track & Field and Running (2)
   - PEP A235 Coaching Swimming and Diving (2)
   - PEP A236 Coaching Skiing (2)
   - PEP A237 Coaching Figure Skating (2)
   - PEP A238 Coaching Gymnastics (2)
   - PEP A239 Coaching Baseball/Softball (2)
   - PEP A240 Coaching Football (2)
   - PEP A241 Coaching Basketball (2)
   - PEP A242 Coaching Soccer (2)
   - PEP A243 Coaching Hockey (2)
   - PEP A244 Coaching Volleyball (2)

2. Choose one of the following: 2
   - PEP A346 Lower Body Injury Assessment Skills 3
   - PEP A347 Upper Body Injury Assessment Skills 3
   - PEP A382 Kinesiology and Biomechanics 4
   - PEP A385 Physiology of Exercise 4

**MINOR, ATHLETIC TRAINING**

Students who wish to minor in Athletic Training must complete the following requirements. A total of 20 credits, including 14 upper division credits, is required for the minor. Prerequisites for these courses must also be satisfied. Requires a grade of C or better in PEP A346 and PEP A347.

1. Complete the following requirements (20 credits):
   - DN A203 Nutrition for Health Sciences (3)
   - PEP A130 Introduction to Coaching 3
   - PEP A233 Coaching Track & Field and Running (2)
   - PEP A235 Coaching Swimming and Diving (2)
   - PEP A236 Coaching Skiing (2)
   - PEP A237 Coaching Figure Skating (2)
   - PEP A238 Coaching Gymnastics (2)
   - PEP A239 Coaching Baseball/Softball (2)
   - PEP A240 Coaching Football (2)
   - PEP A241 Coaching Basketball (2)
   - PEP A242 Coaching Soccer (2)
   - PEP A243 Coaching Hockey (2)
   - PEP A244 Coaching Volleyball (2)

2. Choose one of the following: 2
   - PEP A346 Lower Body Injury Assessment Skills 3
   - PEP A347 Upper Body Injury Assessment Skills 3
   - PEP A382 Kinesiology and Biomechanics 4
   - PEP A385 Physiology of Exercise 4

**RECOMMENDED COURSE SEQUENCE**

See a Health, Physical Education & Recreation advisor for information on a recommended course sequence.
MINOR, PHYSICAL EDUCATION *

Students who wish to minor in Physical Education must complete the following requirements. A total of 21 credits, including 10 upper division credits, is required for the minor. Prerequisites for these courses must also be satisfied. Requires a grade of C or better in the leadership courses.

1. Complete the following core courses (15 credits):
   - PEP A181  Introduction to Health, Physical Education and Recreation 3
   - PEP A281  Leadership in Activities for Diverse Populations 2
   - PEP A382  Kinesiology and Biomechanics 4
   - PEP A383  Movement Theory and Motor Development 3
   - PEP A486  Standards and Assessment in Health, Physical Education and Recreation 3

2. Choose three of the following: 6
   - PEP A282  Leadership in Experiential Initiatives and Activities (2)
   - PEP A283  Leadership in Aquatic Activities (2)
   - PEP A284  Leadership in Fitness Activities (2)
   - PEP A285  Leadership in Team Activities (2)
   - PEP A286  Leadership in Individual and Dual Activities (2)
   - PEP A287  Leadership in Outdoor Recreation Activities (2)
   - PEP A288  Leadership in Rhythmic Activities (2)

*Not available to Physical Education majors with Health & Fitness Leadership emphasis.

ASSOCIATE OF APPLIED SCIENCE, INDUSTRIAL PROCESS INSTRUMENTATION

The Industrial Instrumentation program is offered only at Kenai Peninsula College, Kenai River Campus.

The graduates of the UAA Industrial Process Instrumentation program will have the ability to:

1. Read P & ID drawings and piping isometric drawings;
2. Enter and print data in a spreadsheet program and enter and edit text using a word processor;
3. Predict the output from a pneumatic or electronic transmitter for a given process input condition;
4. Predict the effect of changes in gain or integral time on the dynamic behavior of closed-loop control;
5. Describe the techniques for troubleshooting an orifice meter and flow control loop using either electronic or pneumatic equipment;
6. Correctly interpret RTD or thermocouple output values as process temperatures;
7. Correctly predict the voltage drops in a series connected current loop or a parallel connected voltage loop;
8. Correctly implement a set-reset function using Boolean logic, TTL circuits, or relay logic;
9. Correctly distinguish between data transmitted by analog signals and data transmitted by digital signals;
10. Identify typical pumps, compressors, transmitters, and similar components;
11. Communicate technical issues to peers both in writing and orally; and
12. Will demonstrate punctuality and responsibility suitable to work place employment.

ADMISSION REQUIREMENTS

1. Complete university admissions requirements for associate degrees found in Chapter 7 of this catalog.
2. All students are required to take CIS A105 (or CIS A110) or possess equivalent knowledge prior to entering this degree program.

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University and the General Course Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.

COMMUNICATION AND GENERAL REQUIREMENTS

1. Oral Communication Requirements:
   - COMM A111  Fundamentals of Oral Communication 3
   - or
   - COMM A235  Small Group Communication (3)
   - or
   - COMM A241  Public Speaking (3)

2. Written Communication Requirements:
   - ENGL A111  Methods of Written Communication 3
   - ENGL A212  Technical Writing 3

3. General Requirements:
   - MATH A105  Intermediate Algebra (or higher level) 3

4. Natural Science Requirements:
   - PHYS A115/L  Physical Science I for Technicians 4
   - or
   - PHYS A123/L  Basic Physics I (4)
MECHANICAL TECHNOLOGY

Kenai Peninsula College (KPC)
156 College Drive, Soldotna, AK, 99669, (907) 262-0300, www.kpc.alaska.edu

The one-year certificate in Mechanical Technology provides the student with experience in the maintenance of most major types of rotating equipment and the operation of common machine tools. This program prepares students for employment as entry-level mechanics or millwrights in all types of industrial plants. This certificate may take more than two semesters to complete due to staggered course offerings.

UNDERGRADUATE CERTIFICATE,
MECHANICAL TECHNOLOGY

The Mechanical Technology program is offered at Kenai Peninsula College, Kenai River Campus.

Advising for this program is only available from the Technology faculty at Kenai Peninsula College. Please call (907) 262-0344 for more information.

MAJOR REQUIREMENTS

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ET A101</td>
<td>Basic Electronics: DC Physics</td>
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<tr>
<td>ET A102</td>
<td>Basic Electronics: AC Physics</td>
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<td>ET A126</td>
<td>Principals of Logic and Gating</td>
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<td>ET A175</td>
<td>Technical Introduction to Microcomputers</td>
<td>3</td>
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<tr>
<td>ET A240</td>
<td>Application of Integrated Circuits</td>
<td>3</td>
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<td>ET A241</td>
<td>Microcomputer Interfacing</td>
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<td>ET A246</td>
<td>Electronic Industrial Instrumentation</td>
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<td>PETR/PRT A140</td>
<td>Industrial Process Instrumentation I</td>
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<tr>
<td>PETR/PRT A144</td>
<td>Industrial Process Instrumentation II</td>
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<td>PETR A155</td>
<td>Blueprint Reading (3)</td>
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<td>EDD A288</td>
<td>Computer Aided Drafting (4)</td>
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<td>PETR A240</td>
<td>Industrial Process Instrumentation III</td>
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<td>PETR A244</td>
<td>Industrial Process Instrumentation IV</td>
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<td>PRT A130</td>
<td>Process Technology I: Equipment</td>
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<td>Technical Electives</td>
<td>Complete one of the following:</td>
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<td>CNT A170</td>
<td>Cisco Network Fundamentals (4)</td>
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<td>CS A109</td>
<td>Selected Computer Languages (3)</td>
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<td>ET A243</td>
<td>Programmable Logic Controllers (3)</td>
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<td>PRT A230</td>
<td>Process Technology II: Systems (4)</td>
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<tr>
<td>PRT A250</td>
<td>Process Troubleshooting (3)</td>
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</table>

A total of 66-68 credits is required for the degree.

FACULTY

Henry Haney, Assistant Professor, IFHWI@uaa.alaska.edu
Allen Houtz, Professor, IFADH@uaa.alaska.edu
Rich Kochis, Assistant Professor, IFRLK@uaa.alaska.edu

Admission to the certificate program is currently suspended. Contact the department for further information.

MECHANICAL TECHNOLOGY

The graduates of the UAA Mechanical Technology program will have the ability to:

1. Operate basic machine tools at an entry level: lathe, mill, grinder, saws, drill press, sanders, arbor press, radial drill, ovens, precision measuring tools;
2. Measure, identify, and apply with real world parts and pieces, pipe, pipe schedules, fittings and related steel structural materials, and produce appropriate blue prints;
3. Show proficiency in the use, calibration, repair, maintenance, and care of all precision measuring tools;
4. Complete advanced machine shop projects in a variety of materials using standard machine tools and student-created blue prints;
5. Plan and complete machining jobs on the CNC (Computer Numerical Control) equipment in a variety of materials including steel, aluminum, brass, cast iron, stainless, nylon, plastics, and hardwood (optional focus);
6. Pass entry-level welding certification test (optional focus).

ADMISSION REQUIREMENTS

Complete university admissions requirements for certificates found in Chapter 7 of this catalog.

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University and the General Course Requirements for Certificates located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Certificate Requirements (18 Credits):
   - MATH A105 Intermediate Algebra 3
   - MECH A101 Introduction to Machine Shop 4
   - PETR A155 Blueprint Reading 3
   - PRT A130 Process Technology I: Equipment 4

2. Choose a minimum of 14 credits from the following electives:
   - EDD A288 Computer Aided Drafting 4
   - PETR A240 Industrial Process Instrumentation III 3
   - PETR A244 Industrial Process Instrumentation IV 3
   - PRT A230 Process Technology II: Systems 4
   - PRT A250 Process Troubleshooting 3

A total of 32 credits is required for this certificate.

FACULTY

Drew O’Brien, Assistant Professor, IFDO@uaa.alaska.edu
Fritz Miller, Associate Professor, IFFWM@uaa.alaska.edu

MEDICAL ASSISTING

Allied Health Sciences Building (AHS), Room 161, (907) 786-6928
www.uaa.alaska.edu/ctc/programs/alliedhealth/ma

Medical assistants are multi-skilled allied health professionals specifically trained to work in ambulatory settings, such as physicians' offices, clinics, and group practices. They perform both administrative and clinical tasks to help keep busy medical practices running smoothly. Clinical duties include assisting with examinations, recording vital signs, preparing patients for various procedures, sterilizing instruments, maintaining examining rooms, drawing blood, recording electrocardiograms, removing sutures and changing dressings. Administrative responsibilities of the medical assistant include answering telephones and greeting patients, maintaining medical records, performing medical coding, completing health insurance forms, scheduling appointments, and preparing medical and financial reports.

FACULTY

Henry Haney, Assistant Professor, IFHWI@uaa.alaska.edu
Allen Houtz, Professor, IFADH@uaa.alaska.edu
Rich Kochis, Assistant Professor, IFRLK@uaa.alaska.edu

Admission to the certificate program is currently suspended. Contact the department for further information.

MAJOR REQUIREMENTS

1. Certificate Requirements (18 Credits):
   - MATH A105 Intermediate Algebra 3
   - MECH A101 Introduction to Machine Shop 4
   - PETR A155 Blueprint Reading 3
   - PRT A130 Process Technology I: Equipment 4
   - WELD A101 Gas and Arc Welding 4

2. Choose a minimum of 14 credits from the following electives:
   - EDD A288 Computer Aided Drafting 4
   - ET A101 Basic Electronics: DC Physics 4
   - MECH A102 Intermediate Machine Shop 4
   - MECH A115 Gasoline Engine Rebuilding 3
   - MECH A201 Advanced Machine Shop 4
   - MECH A220 Computer Numerical Control Mill 4
   - WELD A108 Wire Welding 4
   - WELD A109 TIG Welding 4

A total of 32 credits is required for this certificate.

FACULTY

Drew O’Brien, Assistant Professor, IFDO@uaa.alaska.edu
Fritz Miller, Associate Professor, IFFWM@uaa.alaska.edu

MEDICAL ASSISTING

Allied Health Science Building (AHS), Room 169, (907) 786-6930
www.uaa.alaska.edu/ctc/alliedhealth/massage

Admission to the certificate program is currently suspended. Contact the department for further information.

FACULTY

Henry Haney, Assistant Professor, IFHWI@uaa.alaska.edu
Allen Houtz, Professor, IFADH@uaa.alaska.edu
Rich Kochis, Assistant Professor, IFRLK@uaa.alaska.edu

Admission to the certificate program is currently suspended. Contact the department for further information.
The UAA Medical Assisting program offers an Associate of Applied Science degree in Medical Assisting, as well as preparation for the Certified Medical Assistant (CMA) examination and an Occupational Endorsement Certificate in Medical Office Coding. The UAA 40-credit CMA Examination Preparation course of study is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Curriculum Review Board of the American Association of Medical Assistants Endowment (CRB-AAMAE): CAAHEP, 35 East Wacker Drive, Chicago, IL 60601; 312-553-9355. Students who complete the UAA CMA Examination Preparation courses, as outlined below, are eligible to sit for the CMA examination. Please note: Individuals who have been found guilty of a felony, or pleaded guilty to a felony, are not eligible to take the CMA examination; however, a waiver may be granted by the American Association Medical Assistants (AAMA) Certifying Board in cases of mitigating circumstances.

In order to perform medical assisting duties, a student should have good manual dexterity, visual ability to locate patient veins and interpret color changes, and good hearing acuity. Most medical assistants should be able to lift in order to assist patients, be able to bend, reach, and kneel; many medical assistants are required to stand for long periods of time. Please contact the Medical Assisting Department for a list of medical assisting technical standards required for students to successfully complete the clinical portion of the Medical Assisting program.

Other employment opportunities for which the Medical Assisting program provides training include medical transcriptionist, medical receptionist, medical coder, and health insurance specialist. Medical terminology courses are valuable for all health science students and may be taken by anyone entering a health occupation. Formal admission to the Medical Assisting program is not required for all courses.

**OCCUPATIONAL ENDORSEMENT CERTIFICATE, MEDICAL OFFICE CODING**

**CERTIFICATE DESCRIPTION AND OUTCOMES**

Medical office coders work in medical office and outpatient settings coding medical records for statistical and reimbursement purposes.

**DESCRIPTION OF OUTCOMES**

This program prepares students to work as medical coders in outpatient settings. The program is based upon the American Health Information Management Association (AHIMA) recommendations. Upon successful completion of the program, students are prepared to sit for the AHIMA's Certified Coding Specialist – Physician (CCS-P) coding examination. After successful completion of the program the students will be able to demonstrate the following:


**ADMISSION REQUIREMENTS**

See Occupational Endorsement Certificate admission requirements in Chapter 7 of this catalog.

**CERTIFICATE REQUIREMENTS**

1. Complete the following core courses with a grade of C or higher: (11 credits)
   - MA A101 Medical Terminology I 3
   - MA A104 Essentials of Human Disease 3
   - MA A220 Coding for the Medical Office 3
   - MA A320 Advanced Case Studies in Medical Coding 2

2. Complete a minimum of 6 credits of the following support courses, as approved by the department advisor, with a grade of C or higher:
   - BIOL A100 Human Biology 3
   - BIOL A111 Anatomy and Physiology I 4
   - BIOL A112 Anatomy and Physiology II 4
   - MA A230 Billing and Insurance for the Medical Office 3

3. A total of 17 credits is required for this occupational endorsement certificate.

**PREPARATION FOR THE CERTIFIED MEDICAL ASSISTANT (CMA) EXAMINATION**

1. Demonstrate the following, or complete preparatory courses as recommended by the medical assisting academic advisor.
   - Placement into MATH A055 or above, or completion of MATH A054 with a minimum grade of C.
   - Placement into ENGL A111 or above, or completion, with a minimum grade of C, of PRPE A107 and PRPE A108, or ENGL A109.
   - Recommended keyboarding skill of 45 wpm or completion of keyboarding course(s).

2. Complete the following required courses with a minimum grade of C in each course:
   - BIOL A100 Human Biology 3
   - CIS A105 Introduction to Personal Computers and Application Software (3) or CIOS A135A Spreadsheets I: MS Excel (1)
   - CIOS A130A Word Processing I: MS Word (1)
   - One additional credit of CIOS coursework (1)
   - MA A101 Medical Terminology I 3
   - MA A104 Essentials of Human Disease 3
   - MA A120 Medical Office Procedures 4
   - MA A140 Medical Transcription I 2
   - MA A150 Clinical Procedures I 4
   - MA A155 Clinical Procedures II 4
   - MA A220 Coding for the Medical Office 3
   - MA A230 Billing and Insurance for the Medical Office 3
   - PSY A150 Life Span Development 3

*Completion of MA A120A and MA A120B satisfies the requirement of MA A120.

3. Complete MA A295 Medical Office Externship. 5
4. Successful completion of the above-listed 40 credits is required to be eligible to sit for the Certified Medical Assistant (CMA) Examination.

**ADDITIONAL INFORMATION REGARDING EXTERNSHIP**

1. A recent physical examination is required prior to the beginning of externship. Each student must submit a physical examination that certifies the student is free from infectious diseases and physically able to participate in the externship portion of the program.
2. Current Healthcare Provider CPR (adult/child/infant) certification is required prior to the start of externship, and must be kept current throughout the externship course.
3. Current immunizations, proof of medical insurance, and criminal background checks are required by some medical offices which serve as medical office externship sites. The cost to meet these requirements is the responsibility of the student. Students who are injured while completing externship assignments are responsible for all associated medical costs. Students are strongly encouraged to maintain personal medical insurance.
4. Transportation to off-campus externship sites is the responsibility of the student.

Chapter 10 Page 200 University of Alaska Anchorage 2009-2010 Catalog www.uaa.alaska.edu
ASSOCIATE OF APPLIED SCIENCE, MEDICAL ASSISTING

DEGREE DESCRIPTION AND OUTCOMES
At the completion of this program, students are able to demonstrate:
1. Basic knowledge in the principles and skills related to administrative, clinical, and general areas of medical assisting.
2. Entry-level medical assistant employment skills.
3. Professionalism as certified medical assistant (CMA).

ADMISSION REQUIREMENTS
1. See Certificate and Associate of Applied Science Degree Program Admission Requirements at the beginning of this chapter.
2. Submit University of Alaska Anchorage application for admission and required transcripts.
3. Take UAA-approved English and math placement tests. Call 907-786-4500 for testing information.
4. Call 907-786-6928 to make an appointment with a Medical Assisting academic advisor prior to registering for classes.

ADVISING
Medical Assisting courses are offered in fall and spring semesters. A six-week office practice (externship) begins in May. Some courses are offered only once per year. Students should meet with an academic advisor prior to registering for classes in order to determine the best sequencing of courses for their program of study. Part-time students are welcome.

GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.

GENERAL COURSE REQUIREMENTS
Complete the Associate of Applied Science General Course Requirements (15 credits) located at the beginning of this chapter. (Completion of BIOL A100 and PSY A150 fulfill the requirement of 6 credits of mathematics, humanities, social sciences or natural sciences.)

MAJOR REQUIREMENTS
1. Complete the required courses for the Preparation for the Certified Medical Assisting (CMA) Examination as outlined above with a minimum grade of C in each course. 40
2. Complete 8 to 9 credits in the following courses: 8-9
   - ACCT A120 or ACCT A101 or DN A101 or DN A203 or MA A110 or MA A141 or MA A320 or MEDT A101
   - Bookkeeping for Business (3)
   - Principles of Accounting (3)
   - Principles of Nutrition (3)
   - Nutrition for Health Sciences (3)
   - Principles of Radiography (3)
   - Medical Transcription II (3)
   - Advanced Case Studies in Medical Coding (2)
   - Phlebotomy Procedures (3)
3. Elective credits. 0-3
4. A minimum of 60 credits is required for this degree.

FACULTY
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Pam Ventgen, Assistant Professor, AFPK@uaa.alaska.edu
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MEDICAL LABORATORY TECHNOLOGY

Allied Health Sciences Building (AHS) Room 169, (907) 786-4930, www.uaa.alaska.edu/ctc/alliedhealth/medlab

The mission of the Medical Laboratory Technology Department is to graduate competent and ethical clinical laboratory professionals with the knowledge and the skills for career entry. It is also the department’s mission to prepare graduates for leadership roles in the clinical laboratory and professional organizations and to instill an understanding of the need for maintaining continuing competency in a rapidly changing and dynamic profession.

The Medical Laboratory Technology Department has a strong commitment to the career ladder approach to higher education. With career ladder programs, the students enrolled in the Bachelor of Science in Medical Technology have an option to gain phlebotomy certification in one year and medical laboratory technician certification in two years as they pursue a bachelor’s degree. The AAS graduates who wish to obtain a bachelor’s degree in Medical Technology may “career ladder” without loss of credit.

General Admission Requirements for all students entering programs offered by the Medical Laboratory Technology Department include:
1. Complete the Medical Laboratory Technology program application.
2. Review the Essential Requirements for Admission and return the signed form to the department.
3. High School diploma or GED equivalency.
4. Prior to enrollment in either MEDT A101 or MEDT A132, students must provide documentation of the following:
   - Immunity to rubella, rubeola and chicken pox confirmed by titer.
   - Immunity to hepatitis A and hepatitis B. Students must have started the immunization series prior to enrolling in the courses.
   - Tetanus/diphtheria/pertussis (Tdap) vaccination within the past 10 years.
   - Freedom from active tuberculosis, documented annually by negative PPD skin test or by health examination by a nurse practitioner, physician or physician's assistant.
5. Prior to enrolling in a practicum (MEDT A195A, MEDT A195B, MEDT A295 or MEDT A495) students must
   - Demonstrate computer competency in the prerequisite MEDT courses.
   - Provide documentation of a background check within six months prior to start of practicum.
   - Provide proof of personal medical insurance coverage.

Additional admission requirements are listed under program descriptions.

The Medical Laboratory Technology Department assumes no responsibility for illness or injuries experienced by students in conjunction with student labs. It is strongly recommended that students maintain personal medical insurance while enrolled in any of the programs offered by the Medical Laboratory Technology Department. Students enrolled in practicum (MEDT A195A, MEDT A195B, MEDT A295 or MEDT A495) must provide their own transportation to the clinical facility. Personal protective equipment is provided by the training facility. The clinical facilities require proof of medical insurance coverage; therefore, students are required to maintain personal medical insurance while enrolled in practicum courses. Medical insurance is available through the Student Health Center. Liability insurance is purchased by the Medical Laboratory Technology Department to cover the student's practicum. The occupational endorsement certificate, AAS, and BS degrees are not contingent upon the students passing any type of external certification or licensure examination.

The AAS in Medical Laboratory Technology and the BS in Medical Technology programs are accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 8410 W. Bryn Mawr...
Avenue, Suite 670, Chicago, IL, 60631-3415, (773) 714-8880. NAACLS is recognized by the United States Department of Education and by the Council for Higher Education.

**ADVISING**

All students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

**OCCUPATIONAL ENDORSEMENT CERTIFICATE, PHLEBOTOMIST**

Phlebotomists obtain blood and other samples for laboratory testing. They establish professional relationships with their patients, collect and prepare specimens, maintain collection areas and equipment and perform record keeping duties. Students are eligible to sit for national certification examinations in phlebotomy after completion of MEDT A195A.

**PROGRAM OUTCOMES**

The specific educational outcomes for the program are to produce graduates who:

- Select the appropriate site and demonstrate the proper technique for collecting, handling, and processing blood and non-blood specimens.
- Demonstrate professional conduct, stress management, interpersonal, and communication skills with patients, peers, other health care personnel, and the public, recognizing possible legal implications.
- Recognize and adhere to infection control and safety policies and procedures.
- Demonstrate an understanding of test requisitioning.
- Identify factors that affect specimen collection procedures and test results, and take appropriate actions within predetermined limits when applicable.
- Recognize and act upon individual needs for continuing education as a function of growth and maintenance of professional competence.
- Perform point-of-care testing according to standard operating procedures.

**CERTIFICATE REQUIREMENTS**

1. Complete the Occupational Endorsement Admission Requirements at the beginning of this chapter.
2. Complete the General Admissions Requirements for all programs in the Medical Laboratory Technology Department that are listed at the beginning of this section.
3. The Phlebotomist Occupational Endorsement Certificate is offered on campus and by distance delivery. Distance students must contact the Medical Laboratory Technology Department to arrange for a mentor and clinical training facility prior to enrolling in any of the courses.
4. Students must earn a satisfactory grade (C or higher or P) in the following courses:
   - MEDT A101 Phlebotomy Procedures 3
   - MEDT A105 Microbiology for Clinical Assistants 3
   - MEDT A106 Waived Testing 4
   - MEDT A110 Specimen Processing 3
   - MEDT A195A Phlebotomy Practicum 3
   - MEDT A195B Clinical Assistant Practicum 4
5. A total of 20 credits is required for the OEC.

**ASSOCIATE OF APPLIED SCIENCE, MEDICAL LABORATORY TECHNOLOGY**

NAACLS provides the following description: at career entry, the medical laboratory technician/clinical laboratory technician will be able to perform routine clinical laboratory tests (such as hematology, clinical chemistry, immunohematology, microbiology, serology/immunology, coagulation, molecular, and other emerging diagnostics) as the primary analyst making specimen oriented decisions on predetermined criteria, including a working knowledge of critical values. Communication skills will extend to frequent interactions with members of the health care team, external relations, customer service and patient education. The level of analysis ranges from waived and point of care testing to complex testing encompassing all major areas of the clinical laboratory. The clinical laboratory technician/medical laboratory technician will have diverse functions in areas of pre-analytical, analytical, and post-analytical processes. The clinical laboratory technician/medical laboratory technician will have responsibilities for information processing, training, and quality control monitoring where clinical laboratory testing is performed.

Upon graduation and initial employment, the medical laboratory technician/clinical laboratory technician should be able to demonstrate entry-level competencies in the above areas of professional practice. Graduates are eligible to sit for national certification examinations in medical laboratory technician/clinical laboratory technician after completing the program.

**PROGRAM OUTCOMES**

The specific educational outcomes for the program are to produce graduates who:

- Demonstrate entry-level competencies for medical laboratory technicians in the following disciplines: hematology, chemistry,
im Immunology, Blood Bank, Urine and Body Fluid Analysis, Microbiology, and Laboratory Operations.

- Demonstrate professional behavior including sound work ethics, cultural responsiveness, and appearance while interacting with patients and healthcare professionals.
- Find gainful employment as laboratory professionals.
- Demonstrate continuing competency through participation in continuing education and providing continuing education.
- Demonstrate professional advancement by involvement in administrative and/or supervisory roles in the employment setting or through completion of specialty or certification examinations.
- Demonstrate a commitment to the laboratory profession through sustained membership and active involvement in professional organizations.

**Admission Requirements**

1. Complete the Associate Degree Programs Admission Requirements at the beginning of this chapter.
2. Complete the General Admission Requirements for all programs in the Medical Laboratory Technology Department that are listed at the beginning of this section.
3. Meet with the Medical Laboratory Technology program advisor regarding application, program admission, and development of a program of study.

**Academic Progress**

In order to progress within the Associate of Applied Science in Medical Laboratory Technology program, students must earn a satisfactory grade (C or higher or P) in all Medical Laboratory Technology (MEDT) courses required for the degree and demonstrate professional behavior as defined by the “Medical Laboratory Technology Department Core Abilities” and associated behavior criteria. Satisfactory progress is demonstrated by exhibiting Developing Level Criteria by the end of the second year (assessed by core faculty), and Entry Level Criteria by the end of the Clinical Practicum (assessed by clinical instructors). Students must receive a score of 3 or higher on the Developing Level Criteria in order to progress in the program and a score of 3 or higher in the Entry Level Criteria to graduate from the program. Students who are unable to earn an acceptable grade in the MEDT courses during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space available basis.

When the number of students admitted to the program exceeds the number that can be accommodated in the clinical practicum, students are placed on an alternate list and informed they can complete their practicum should space become available, or they are given preference for a subsequent semester. Students receive a letter stating they are an alternate; they sign and return the letter acknowledging alternate status.

**Degree Requirements**

1. Complete the General University Requirements for Associate of Applied Science Degrees found at the beginning of this chapter.
2. Complete the General Course Requirements for Associate of Applied Science degrees found at the beginning of this chapter. In the Medical Laboratory Technology program, the required support courses meet the AAS General course Requirements.
3. Complete the Required Support Courses and the Major Requirements listed below.

**Required Support Courses**

Complete all 15 credits of support courses for the Medical Laboratory Technology major with a satisfactory grade (C or higher).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL A111</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL A112</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM A103/L</td>
<td>Survey of Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM A104</td>
<td>Introduction to Organic Chemistry and Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

**Major Requirements**

1. Complete the following major courses with a satisfactory grade (C or higher or P).
   - MEDT A132 Introduction to Laboratory Medicine (3) 3/4
   - MEDT A101 Phlebotomy Procedures (3) 4
   - MEDT A133 Basic Techniques in Laboratory Medicine (1)
   - MEDT A202 Clinical Chemistry 6
   - MEDT A203 Clinical Microbiology 6
   - MEDT A204 Hematology and Coagulation 6
   - MEDT A206 Immunology and Blood Banking 6
   - MEDT A208 Urine and Body Fluid Analysis 3
   - MEDT A250 Cultural Diversity in Health Care 1
   - MEDT A295 Clinical Practicum 12

2. A total of 67-68 credits is required for the degree.

**Bachelor of Science, Medical Technology**

**Medical Technologist**

NAACLS provides the following description: At career entry, the medical technologist/clinical laboratory scientist will be proficient in performing clinical laboratory tests in areas such as hematology, clinical chemistry, immunohematology, microbiology, serology/immunology, coagulation, and molecular and other emerging diagnostics, and will be able to play a role in the development and evaluation of test systems and interpretive algorithms. The graduates will have diverse responsibilities in areas of analysis and clinical decision-making, regulatory compliance with applicable regulations, education, and quality assurance/ performance improvement. They will also possess basic knowledge, skills and relevant experience in:

- Communications to enable consultative interactions with members of the health care team, external relations, customer service and patient education;
- Financial operations, marketing and human resource management of the clinical laboratory to enable cost, effective high quality, value added laboratory services;
- Information management to enable effective, timely, accurate and cost-effective reporting of laboratory generated information and;
- Research design/practice sufficient to evaluate published studies as an informed consumer.

Upon graduation and initial employment, the medical technologist should be able to demonstrate entry-level competencies in the above areas of professional practice. Graduates are eligible to sit for national certification examinations in medical technology/clinical laboratory science after completion of the program.

**Program Outcomes**

The specific educational outcomes for the program are to produce graduates who:

- Demonstrate entry-level competencies for medical technologist/clinical laboratory scientists in the following disciplines: hematology, chemistry, immunology, blood bank, urine and body fluid analysis, microbiology and laboratory operations.
- Demonstrate professional behavior including sound work ethics, cultural responsiveness and appearance while interacting with patients and healthcare professional.
- Find gainful employment as laboratory professionals.
- Demonstrate continuing competency through participation in continuing education and providing continuing education.
- Demonstrate professional advancement by involvement in administrative and/or supervisory roles in the employment setting or through completion of specialty or certification examinations.
• Demonstrate a commitment to the laboratory profession through sustained membership and active involvement in professional organizations.

ADMISSION REQUIREMENTS
1. Complete the Baccalaureate Degree Programs Admission Requirements in Chapter 7 of this catalog.
2. Complete the General Admission Requirements for all programs in the Medical Laboratory Technology Department that are listed at the beginning of this section.
3. Meet with the Medical Technology Program advisor regarding application, program admission, and development of a program of study.

ACADEMIC PROGRESS
In order to progress within the Bachelor of Science Medical Technology program, students must earn a satisfactory grade (C or higher or P) in all medical technology courses required for the degree and demonstrate professional behavior as defined by the "Medical Laboratory Technology Department Core Abilities" and associated behavior criteria. Satisfactory progress is demonstrated by exhibiting Developing Level Criteria by the end of the second year (assessed by core faculty), and Entry Level Criteria by the end of the Medical Technology Practicum (assessed by clinical instructors). Students must receive a score of 3 or higher on the Developing Level Criteria in order to progress in the program and a score of 3 or higher in the Entry Level Criteria to graduate from the program. Students who are unable to earn an acceptable grade in the MEDT courses during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space available basis.

When the number of students admitted to the program exceeds the number that can be accommodated in the clinical practicum, students are placed on an alternate list and informed they can complete their practicum should space become available, or they are given preference for a subsequent semester. Students receive a letter stating they are an alternate; they sign and return the letter acknowledging alternate status.

DEGREE REQUIREMENTS
1. Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.
2. Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter. In the Medical Technology program, the required support courses meet the Quantitative Skills and Natural Science Requirements.
3. Complete the Required Support Courses and Major Requirements listed below.

REQUIRED SUPPORT COURSES
Complete all 31-36 credits of support courses for the Medical Technology major with a satisfactory grade (C or higher).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL A111</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL A12</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM A103</td>
<td>Survey of Chemistry (3) and Survey of Chemistry Laboratory (1)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM A103L</td>
<td>Survey of Chemistry Laboratory (1)</td>
<td></td>
</tr>
<tr>
<td>CHEM A105</td>
<td>General Chemistry I (3) and General Chemistry I Laboratory (1)</td>
<td>4/7</td>
</tr>
<tr>
<td>CHEM A105L</td>
<td>General Chemistry I Laboratory (1)</td>
<td></td>
</tr>
<tr>
<td>CHEM A104</td>
<td>Introduction to Organic Chemistry and Biochemistry (3) and</td>
<td></td>
</tr>
<tr>
<td>CHEM A104L</td>
<td>Introduction to Organic Chemistry and Biochemistry Laboratory (1)</td>
<td></td>
</tr>
<tr>
<td>CHEM A106</td>
<td>General Chemistry II (3) and General Chemistry II Laboratory (1)</td>
<td></td>
</tr>
<tr>
<td>CHEM A106L</td>
<td>General Chemistry II Laboratory (1)</td>
<td></td>
</tr>
<tr>
<td>CHEM A321</td>
<td>Organic Chemistry I (3)</td>
<td></td>
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<tr>
<td>CIS A305</td>
<td>Managerial Presentations</td>
<td>3</td>
</tr>
<tr>
<td>ENGL A212</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH A107</td>
<td>College Algebra [or higher (may not use MATH A205)]</td>
<td>4/3</td>
</tr>
<tr>
<td>PHIL A302</td>
<td>Biomedical Ethics</td>
<td>3</td>
</tr>
<tr>
<td>STAT A252</td>
<td>Elementary Statistics (or higher)</td>
<td>3/4</td>
</tr>
</tbody>
</table>

MAJOR REQUIREMENTS
1. Complete the following major courses with a satisfactory grade (C or higher or P).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDT A132</td>
<td>Introduction to Laboratory Medicine (3)</td>
<td>3/4</td>
</tr>
<tr>
<td>MEDT A101</td>
<td>Phlebotomy Procedures (3)</td>
<td>4</td>
</tr>
<tr>
<td>MEDT A133</td>
<td>Basic Techniques Laboratory Medicine (1)</td>
<td></td>
</tr>
<tr>
<td>MEDT A202</td>
<td>Clinical Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>MEDT A203</td>
<td>Clinical Microbiology</td>
<td>6</td>
</tr>
<tr>
<td>MEDT A204</td>
<td>Hematology and Coagulation</td>
<td>6</td>
</tr>
<tr>
<td>MEDT A206</td>
<td>Immunology and Blood Banking</td>
<td>6</td>
</tr>
<tr>
<td>MEDT A208</td>
<td>Urine and Body Fluid Analysis</td>
<td>3</td>
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<tr>
<td>MEDT A250</td>
<td>Cultural Diversity in Health Care</td>
<td>1</td>
</tr>
<tr>
<td>MEDT A301</td>
<td>Clinical Molecular Biology</td>
<td>4</td>
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<tr>
<td>MEDT A302</td>
<td>Clinical Laboratory Education and Management</td>
<td>4</td>
</tr>
<tr>
<td>MEDT A303</td>
<td>Advanced Clinical Microbiology</td>
<td>6</td>
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<tr>
<td>MEDT A401</td>
<td>Introduction to Research</td>
<td>2</td>
</tr>
<tr>
<td>MEDT A495</td>
<td>Medical Technology Practicum (12)</td>
<td>24</td>
</tr>
</tbody>
</table>

2. A total of 123-129 credits is required for the degree, of which 42 credits must be upper division.

FACULTY
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Kim Kuechel, Assistant Professor, AFKRI@uaa.alaska.edu
Gloria Tomich, Associate Professor, AFGAK@uaa.alaska.edu

NUTRITION
Lucy Cuddy Hall (CUDY), Room 126, (907) 786-4728
www.uaa.alaska.edu/ctc/culinary

MINOR, NUTRITION
Students majoring in another discipline who wish to minor in Nutrition must complete the following requirements. Nutrition is essential to the maintenance of a healthy life. A minor in Nutrition will act as a supplement to other fields of study and the application of knowledge to target populations and systems. A minor requires 18 credits; 6 credits must be upper division.

MAJOR REQUIREMENTS
Required Core (6 credits)
Complete the following required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN A101</td>
<td>Principles of Nutrition (3)</td>
<td>3</td>
</tr>
<tr>
<td>DN A203</td>
<td>Nutrition for Health Sciences (3)</td>
<td></td>
</tr>
<tr>
<td>DN A145</td>
<td>Child Nutrition (3)</td>
<td>3</td>
</tr>
<tr>
<td>DN A147</td>
<td>Geriatric Nutrition (3)</td>
<td></td>
</tr>
</tbody>
</table>

Required Upper Division Courses (6 credits)
Select 6 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN A303</td>
<td>Preventive and Therapeutic Nutrition (3)</td>
<td></td>
</tr>
<tr>
<td>DN A315</td>
<td>World Food Patterns (3)</td>
<td></td>
</tr>
<tr>
<td>DN A355</td>
<td>Weight Management and Eating Disorders (3)</td>
<td></td>
</tr>
</tbody>
</table>
OCCUPATIONAL SAFETY AND HEALTH

Kenai Peninsula College (KPC), Anchorage Extension Site (AES)
University Center (UC), Room 118, 3901 Old Seward Highway,
Anchorage, AK 99503, (907) 786-6421

www.kpc.alaska.edu

Advising for this program is available only from the Anchorage Extension Site of Kenai Peninsula College. Please call the OSH faculty at (907) 786-6421 for more information.

The Occupational Safety and Health program prepares students for employment as safety professionals in a variety of industries including construction, petroleum, mining and tourism. Employment opportunities are growing for safety professionals. This program provides a thorough background in occupational safety and health, preparing graduates for entry-level safety positions in industry and government agencies throughout Alaska.

The Occupational Safety and Health program is a 62-63 credit Associate of Applied Science degree. Coursework includes hazardous materials, safety training methods, ergonomics, industrial hygiene, injury prevention, epidemiology, OSHA standards, and safety program management and record keeping.

ASSOCIATE OF APPLIED SCIENCE

OCCUPATIONAL SAFETY AND HEALTH

The Occupational Safety and Health program is offered only at the Kenai Peninsula College-Anchorage Extension Site. (KPC/AES) University Center Room 118, 3901 Old Seward Highway, Anchorage, AK 99503, (907) 786-6421

PROGRAM OUTCOMES

The specific education outcomes of this program are to produce graduates who are able to:

1. Define the roles and responsibilities of safety professionals, safety regulations and their applications.
2. Develop safety management system programs, evaluate their effectiveness, and describe methods of implementation.
3. Identify and analyze workplace injuries, incidents and hazards and provide methods of correction.
4. Identify and analyze needs and methods for safety training and develop safety presentations.

ADMISSION REQUIREMENTS

1. Complete University Admissions Requirements for Associate Degrees found in Chapter 7 of this catalog.
2. Submit the KPC undergraduate application.
3. Demonstrate computer competency evidenced by any of the following:
   a. A 3-credit course in word processing, spreadsheets, databases, data processing or micro-computers.
   b. Work-related experience verifying computer competency as approved by the faculty advisor.
   c. Self-initiated computer competency as approved by the faculty advisor.

ADVISING

1. Meet with a faculty advisor to complete advising interview checklist. Students must meet with the OSH advisor prior to registering for Occupational Safety and Health courses.
2. Students in Anchorage should contact the OSH faculty at (907) 786-6421 for an appointment with a faculty advisor.
3. Students on the Kenai Peninsula should call 262-0344 for an appointment with a faculty advisor.

GRADUATION REQUIREMENTS

1. Complete the General University and the General Course Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.
2. Complete the following required courses:

   BIOL A100 Human Biology 3
   CHEM A103 Survey of Chemistry 3
   CHEM A103L Survey of Chemistry Laboratory 1
   ENGL A111 Methods of Written Communication 3
   ENGL A212 Technical Writing 3
   OSH A101 Introduction to Occupational Safety and Health 3
   OSH A108 Injury Prevention and Risk Management 4
   OSH A110 Program Assessment, Development, and Implementation 4
   OSH A112 Introduction to Injury Epidemiology 3
   OSH A120 Safety Program Management and Recordkeeping 3
   OSH A180 Introduction to Industrial Hygiene 4
   OSH A201 Workplace Injury and Incident Evaluation 4
   OSH A210 Training Needs and Methods 3
   OSH A230 Principles of Ergonomics 3
   OSH A240 Workplace Monitoring: Instrumentation and Calibration 3
   OSH A250 Hazardous Materials Operation 3
   TECH A295 Technical Internship (1-6) 3
   TECH A295* Technical Internship 3

3. Complete one of the following mathematics courses: 3-4
   MATH A105 Intermediate Algebra (3)
   MATH A107 College Algebra (4)

4. Complete one of the following physics courses: 3
   PHYS A123 Basic Physics (3)
   TECH A101 Introduction to technological principles (3)

5. Complete one of the following verbal communication courses: 3
   COMM A111 Fundamentals of Oral Communication (3)
   COMM A235 Small Group Communication (3)
   COMM A237 Interpersonal Communication (3)
   COMM A241 Public Speaking (3)

FACULTY

Don G. Weber, Assistant Professor, IFDGW@uaa.alaska.edu

Anne Bridges, Associate Professor, AFAB@uaa.alaska.edu
Carrie King, Assistant Professor, AFCDK@uaa.alaska.edu
PARAMEDICAL TECHNOLOGY

Kenai Peninsula College (KPC), Kenai River Campus
156 College Road, Soldotna, AK 99669
Contact Paul Perry, (907) 262-6378 or toll free (877) 262-0330
www.kpc.alaska.edu/academics/Paramedical.html

Matanuska-Susitna College (MSC)
Mile 2 Trunk Road, Palmer, AK 99645
Contact Kathy Griffin (907) 746-9329
www.matsu.alaska.edu/paramedic/

Paramedics provide pre-hospital emergency care to acutely ill or injured patients under medical authority of licensed physicians. Individuals interested in pursuing a career as a paramedic should possess significant strength to lift and carry victims, good use of hands and fingers, good coordination, good judgment and emotional stability, as well as the ability to work confidently under pressure. Students successfully completing the degree requirements and the PMED courses meet the U.S. Department of Transportation National Standards for Paramedics are eligible to take the National Registry examination required for licensure.

Two primary requirements of the Paramedic program are clinical rotations and the field internship. Clinical rotations provide instruction and supervised practice of emergency medical skills in various units of hospitals within the Anchorage and Mat-Su borough areas. The field internship provides experience in advanced life support vehicles such as ambulances, helicopters, and fixed wing aircraft. Student interns are the third member of the medical/rescue team and work under the direct supervision of a paramedic preceptor. Internship sites are arranged in various U.S. locations. Efforts are made to place students in geographic locations of their choice; however, intern positions may not be available at all approved sites. Length of internship varies depending on the call volume at the location and successful application of paramedic skills.

ASSOCIATE OF APPLIED SCIENCE,
PARAMEDICAL TECHNOLOGY

Graduates of the Paramedical Technology program will have the ability to:

1. Understand their roles and responsibilities as a program within an EMS system by applying the basic concepts of development, pathophysiology and pharmacology to assess and manage patients with emergency medical needs;
2. Maintain a patient’s airway, oxygenate, and ventilate a patient and be able to take a proper history and perform a comprehensive physical examination;
3. Properly administer medications and communicate effectively with other healthcare providers including physicians, nurses, and other allied health personnel; and
4. Integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for trauma and medical patients of all ages.

ADMISSION REQUIREMENTS

Kenai Peninsula College/Matanuska-Susitna (Mat-Su) College
- Admission Requirements

Advising for Kenai Peninsula College (KPC) students for this program is only available from the Paramedic faculty at KPC. Please call (907) 262-0344 for more information.

Advising for Mat-Su College (MSC) students for this program is only available from the Paramedic faculty at MSC. Please call (907) 746-9329 for more information.

Admission to the KPC/MSC Paramedic programs is competitive and based on a ranking process. Program applications can be requested through the department or downloaded via the Internet. Application requirements must be completed prior to the May 15 application deadline.

Admission Requirements for Paramedical Degree - Pre-Major - Kenai Peninsula College and Mat-Su College only.

Students should consider applying for admission as a “pre-major” in Paramedical Technology while enrolled in other Paramedical Technology degree prerequisite courses. While being a pre-major is not required, you may be eligible for financial aid since you will be considered a degree-seeking student. Students enrolled as Paramedical Technology pre-majors are still required to obtain a KPC or MSC campus-specific Certificate of Admission.

Admission as a Paramedical Technology pre-major does not guarantee admission to the Paramedical Technology degree program. Applications for the degree program that starts each fall must still be submitted by the May 15 deadline. Formal admission requirements to the Paramedical Technology AAS degree program are listed below.

1. Certificate of Admission from the Office of Admissions, including transcripts from both high school/GED and college, with transcript evaluations (if any). Documentation from college transcripts must show successful completion of BIOL A111 and BIOL A112 with laboratories and grades of 2.00 C or above.
2. Student must attend an advising session with the KPC or MSC Paramedic coordinator. Contact your campus (listed above) for an appointment.
3. Paramedic Program Application and Confidential Required Information form sent to the Paramedic coordinator
   a. Copy of current National Registry EMT-Basic or State of Alaska EMT-1 certificate
   b. Evidence of current Healthcare Provider or equivalent, CPR Card
   c. Copies of all current medical certifications or licenses
   d. Military DD-214 (long form); if applicable
   e. Complete Anatomy & Physiology I and II (BIOL A111, BIOL A112; 8 credits); with a minimum C grade.
   f. Take and submit to the program coordinator the scores from the Nurse Entrance Test (NET). It is scheduled through the KPC, MSC, or UAA testing center where you intend to take the examination.
   g. Resume with three letters of recommendation
   h. Admissions essay
4. Upon completion of items 1-3, student files are ranked based on a point system. The top 20 (KPC) or 25 (MSC) applicants will be notified and invited for oral interviews by a selection committee. The top 15 (KPC) or 16 (MSC) will be accepted into the program. The remaining standby applicants will be ranked and offered a position should an accepted applicant decline admission. Please contact department for further details. Students will be contacted in June with their results.

ADMISSION REQUIREMENTS BEFORE BEGINNING COURSEWORK

Once admitted to the Paramedic program, students are required to provide the following before actually beginning coursework.

1. Provide documentation from personal physician, PA-C, or NP affirming capability of performing the physical tasks as outlined by the DOT 1998 Paramedic Curriculum.
2. Evidence of:
   a. Immunity to rubella and mumps confirmed by titer;
   b. Immunity to hepatitis A and hepatitis B, confirmed by titer (first semester clinical students may be in the process of completing the immunization series; for those students, documentation of immunity by titer is required prior to entry into PMED A295 course);
   c. Immunity to chicken pox documented by history, titer or current immunization;
   d. Diphtheria/tetanus vaccination within the past 10 years (with booster required at the time of expiration);
A total of 68 credits is required for the degree.

Major Requirements (48 credits)
- PMED A241: Paramedicine I (8)
- PMED A242: Clinical Rotation I (4)
- PMED A251: Paramedicine II (8)
- PMED A252: Clinical Rotation II (4)
- PMED A261: Paramedicine III (8)
- PMED A262: Clinical Rotation III (4)
- PMED A295: Paramedic Internship (12)

A total of 68 credits is required for the degree.

**PETROLEUM TECHNOLOGY**

**Kenai Peninsula College (KPC), Kenai River Campus**
156 College Drive, Soldotna, Alaska, 99669, (907) 262-0300, www.kpc.alaska.edu

Kenai Peninsula College offers a one-year certificate program in Petroleum Technology. The certificate provides specific training in petro/chemical plant operations.

**UNDERGRADUATE CERTIFICATE,**

**PETROLEUM TECHNOLOGY**

The Petroleum Technology program is offered at Kenai Peninsula College, Kenai River Campus.

Advising for this program is only available from the Petroleum Technology faculty at Kenai Peninsula College. Please call (907) 262-0344 for more information.

The graduates of the UAA Petroleum Technology program will have the ability to:

1. Maintain a safe work area: To enforce safety regulations, to follow safe operating procedures, to maintain effective communications with personnel, and to identify workplace hazards;
2. Monitor area operations: To monitor equipment for efficiency and integrity, to identify process problems, and to perform trend analyses;
3. Maintain process parameters: To perform process adjustments, to start up process equipment, and to shut down process equipment;
4. Maintain emergency response preparedness: To respond to emergencies, to effectively participate in emergency response drills, and to conduct periodic review of emergency response procedures;
5. Maintain regulatory compliance: To report recordable incidents, to record discharge reports, to record regulatory data, to maintain current licensing, to participate in internal/external audits, to comply with HAZCOM requirements;
6. Coordinate maintenance activities: To generate work requests, to develop safe out procedures, to schedule maintenance activities, to prepare equipment for maintenance activity, and to issue work permits;
7. Perform administrative activities: To produce required reports, to perform personal evaluations; and,
8. Understand the need for continued professional development, to participate in job related training, to utilize self-study resources;
9. Demonstrate English skills: To communicate effectively in entry level technical occupations.

**ADMISSION REQUIREMENTS**

Complete University Admissions Requirements for Certificates found in Chapter 7 of this catalog.

**Complete the following requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRE A108</td>
<td>Introduction to College Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL A111</td>
<td>Methods of Written Communication</td>
<td></td>
</tr>
<tr>
<td>or MATH A105</td>
<td>Intermediate Algebra</td>
<td></td>
</tr>
<tr>
<td>PETR/PRT A140</td>
<td>Industrial Process Instrumentation</td>
<td></td>
</tr>
<tr>
<td>PETR/PRT A144</td>
<td>Industrial Process Instrumentation</td>
<td></td>
</tr>
<tr>
<td>PRT A101</td>
<td>Introduction to Process Technology</td>
<td></td>
</tr>
<tr>
<td>PRT A130</td>
<td>Process Technology I: Equipment</td>
<td></td>
</tr>
<tr>
<td>PRT A160</td>
<td>Oil &amp; Gas Exploration &amp; Production</td>
<td></td>
</tr>
<tr>
<td>PRT A230</td>
<td>Process Technology II: Systems</td>
<td></td>
</tr>
<tr>
<td>PRT A231</td>
<td>Process Tech. III: Operations</td>
<td></td>
</tr>
<tr>
<td>ET A101</td>
<td>Basic Electronics: DC Physics</td>
<td></td>
</tr>
<tr>
<td>or ET A126</td>
<td>Principles of Logic and Gating</td>
<td></td>
</tr>
</tbody>
</table>

**FACULTY**

Kathy Griffin, Coordinator/Assistant Professor (MSC), kgriffin@matsu.alaska.edu
Paul Perry, Coordinator/Instructor (KPC), IFPEP@uaa.alaska.edu
After completion of this program students will be able to:

1. Receive, screen and prepare prescription/medication orders checking for completeness, authenticity and accuracy.
2. Initiate, verify, assist in the adjudication of, and collect payment and/or initiate billing for pharmacy services and goods.
3. Purchase and maintain inventory of medications, equipment and devices according to an established plan.
4. Maintain pharmacy equipment and facilities.
5. Participate in the process for preventing medication misadventures, notifying the pharmacist when a problem or situation requires his/her attention.
6. Communicate clearly when speaking or writing while maintaining confidentiality, compassion, and an image of professionalism.

OCCUPATIONAL ENDORSEMENT
Certificate Requirements

1. Students must earn a satisfactory grade (C or higher) in all courses:
   - PHAR A101 Introduction to Pharmacy 3
   - PHAR A105 Pharmacology for Technicians I 3
   - PHAR A107 Pharmacy Calculations 3
   - PHAR A111 Techniques of Pharmacy Practice 3
   - PHAR A115 Pharmacology for Technicians II 3
   - PHAR A192 Topics in Pharmacy 1

2. A total of 16 credits is required for this certificate.

FACULTY
Debra Cieplak, Assistant Professor, AFDAS@uaa.alaska.edu

PROCESS TECHNOLOGY
Kenai Peninsula College (KPC), KRC (Kenai River Campus)
156 College Drive, Soldotna, Alaska, 99669, (907) 262-0300
www.kpc.alaska.edu

Advising for this program is only available from the Process Technology faculty at Kenai Peninsula College. For the Kenai River Campus, please call (907) 262-0344 for more information. For the KPC Anchorage Extension Site, call 786-6413.

The Associate of Applied Science degree in Process Technology is coordinated by Kenai Peninsula College and is delivered collaboratively through UAA and UAF.

This degree is designed to provide education/training that will enable individuals to obtain employment in the industries that use and control mechanical, physical or chemical processes to produce a final product. In Alaska this includes the process industries of oil and gas production; chemical manufacturing; petroleum refining; power generation and utilities; water and wastewater treatment; and seafood and other food processing.

ASSOCIATE OF APPLIED SCIENCE, PROCESS TECHNOLOGY

The Process Technology program is offered only at Kenai Peninsula College KRC (Kenai River Campus) and AES (Anchorage Extension site)

The graduates of the UAA Process Technology program will have the ability to:

1. Maintain a safe work area – to enforce safety regulations, to follow safe operating procedures, to maintain effective communications with personnel, and to identify workplace hazards;
2. Monitor area operations – to monitor equipment for efficiency and integrity, to identify process problems, and to perform trend analyses;
3. Maintain process parameters – to perform process adjustments, to start up process equipment, and to shut down process equipment;
4. Maintain emergency response preparedness – to respond to emergencies, to effectively participate in emergency response drills, and to conduct periodic review of emergency response procedures;
5. Maintain regulatory compliance – to report recordable incidents, to record discharge reports, to record regulatory data, to maintain current licensing, to participate in internal/external audits, to comply with HAZCOM requirements;
6. Coordinate maintenance activities – to generate work requests, to
develop safe out procedures, to schedule maintenance activities, to
prepare equipment for maintenance activity, and to issue work
permits;
7. Perform administrative activities – to produce required reports, to
record logbook entries, to perform personal evaluations;
8. Prepare for and understand the need for continued professional
development, to participate in job related training, to utilize self-
study resources.

ADMISSION REQUIREMENTS
1. Complete University Admissions Requirements for Associate’s
   Degrees found in Chapter 7 of this catalog.
2. Placement at the A105 level or above, equivalent course, or
   appropriate ACT/SAT scores.
3. Placement for reading at the ENGL A111 level or above.

ADVISING
Students must see a faculty advisor in the Process Technology program
prior to registering for Process Technology courses.

GENERAL UNIVERSITY REQUIREMENTS
Complete the General University and the General Course Requirements
for Associate of Applied Science Degrees located at the beginning of this
chapter.

COMMUNICATION AND GENERAL REQUIREMENTS
1. Oral Communications Skills (One of the following) 3
   COMM A111 Fundamentals of Oral Communication (3)
   COMM A235 Small Group Communication (3)
   COMM A237 Interpersonal Communication (3)
   COMM A241 Public Speaking (3)
2. Written Communication Skills 6
   ENGL A111 Methods of Written Communication (3)
   and one of the following:
   ENGL A211 Academic Writing About Literature (3)
   ENGL A212 Technical Writing (3)
   ENGL A213 Writing in the Social and Natural Sciences (3)
   ENGL A214 Persuasive Writing (3)
3. Support Courses Math: 3-4
   MATH A105 Intermediate Algebra (3)
   or
   MATH A107 College Algebra (4)
   Computer Literacy: 3
   CIS A105 Introduction to Personal Computers and Application Software (3)
   or
   CIS A110 Computer Concepts in Business (3)
   Natural Sciences: 8
   CHEM A103/L Survey of Chemistry (or higher level) (4)
   and
   PHYS A115 Physical Science I for Technicians (4)
   or
   CHEM A103/L Survey of Chemistry (or higher level) (4)
   and
   PHYS A123/L Basic Physics I (4)
   Social Science: 3
   Elective (3)

MAJOR REQUIREMENTS
1. Complete the following courses (28 credits):
   PRT A101 Introduction to Process Technology 3
   PRT A110 Introduction to Occupational Safety, Health, and Environmental Awareness 3
   PRT A130 Process Technology I: Equipment 4
   PRT/PETR A140 Industrial Process Instrumentation I 3
   PRT/PETR A144 Industrial Process Instrumentation II 3
   PRT A230 Process Technology II: Systems 4
   PRT A231 Process Technology III: Operations 4
   PRT A250 Process Troubleshooting 3
   PRT A255 Quality Concepts for the Process Industry 1
2. Approved Applied Technology Electives 9

2. All 9 credits must be chosen with advisor approval. For example, they may be chosen from:
   - Electronics
   - Environmental Technology (Wastewater) Mining Technology
   - Industrial Process
   - Instrumentation
   - Occupational Safety & Health
   - Petroleum Technology
   - Process Technology
   - Power Generation
   - Technical Internship
   - Technology
3. A total of 63 credits is required for the degree.

FACULTY
Allen Houtz, Professor, IFADH@uaa.alaska.edu
Holly Norwood, Assistant Professor, IFHSN1@uaa.alaska.edu
Henry Haney Assistant Professor, IFHWH@uaa.alaska.edu

RADIOLOGIC TECHNOLOGY
Allied Health Science Building (AHS), Room 151B, (907)786-6940
www.uaa.alaska.edu/ctc/alliedhealth/radtech

OCCUPATIONAL ENDORSEMENT CERTIFICATE,
LIMITED RADIOGRAPHY
Limited radiographers perform X-ray examinations within a limited scope
and work under the direct supervision of a registered radiologic
technologist, physician, and physician’s assistant. The limited radiographer
is prepared with the technical skills to perform examinations and provide
the physician with diagnostic images of the skeletal system.

The occupational endorsement is not contingent upon the student
passing any type of external certification or licensure examination.

This certificate does not lead to the AAS degree in Radiologic
Technology.

ADMISSIONS REQUIREMENTS
See Occupational Endorsement Certificate Admission Requirements in
Chapter 7 of this catalog.

Student must be at least 18 years or older.

STUDENT OUTCOMES
This program prepares students to work as limited radiographers with
knowledge of the curriculum content identified by the American Society
of Radiologic Technologist (ARRT). After completion of this program
the students will be able to demonstrate the following:
1. Entry-level knowledge and skills for employment as a limited
   radiographer.
2. Proficiency in the performance of limited radiographic
   procedures.
3. Meet statewide staffing needs.
ASSOCIATE OF APPLIED SCIENCE, RADIOLOGIC TECHNOLOGY

The Radiologic Technology program prepares students for employment as career entry medical radiographers. Students completing the program receive an Associate of Applied Science degree and are eligible to apply for certification with the American Registry of Radiologic Technologists (ARRT).

Graduates are prepared with the technical skills necessary to perform a variety of diagnostic radiographic examinations. The primary role of the radiographer is to provide diagnostic images of the structure and function of anatomy to assist the physician in the treatment of injury and disease. Examples of examinations performed include chest, upper and lower extremities, spine, ribs, skull, gastrointestinal, genitourinary, and reproductive systems.

The program of study incorporates didactic instruction, laboratory demonstration, and clinical application in a manner that provides correlation of theory with practice. The inclusion of general university requirements fulfills program goals of developing knowledgeable and competent practitioners who will have opportunities for continued professional growth. Additional expenses include clinical attire, vaccinations, identification badge, and other organization fees.

The AAS degree is not contingent upon the students passing any type of external certification or licensure examination.

STUDENT OUTCOMES

This program prepares students to work as radiologic technologists with knowledge in the general education, the radiologic technology, and the curriculum content areas identified by the American Society of Radiologic Technology (ASRT). At the completion of this program, students will be able to demonstrate:

1. Entry-level knowledge and skills for employment as a radiologic technologist.
2. Proficiency in the performance of radiographic procedures.
3. Professional attitude and proper ethical behavior in clinical settings.

ADMISSIONS REQUIREMENTS

See Associate of Applied Science Degree Admissions Chapter 7 of this catalog. Students will be admitted to the Radiologic Technology program as a premajor. Prior to being admitted as a full major the student must complete the following additional admission requirements:

1. Submit Medical Imaging Sciences Department, Radiologic Technology application.
2. Earn a grade of C or better in BIOL A111, BIOL A112, and MA A101.
3. Current First Aid/CPR for Professionals or BLS-C certification.
4. Evidence of current immunization to include the following:
   a. Rubella and rubeola, confirmed by titer;
   b. Immunity to hepatitis A and hepatitis B, confirmed by titer;
   c. Immunity to chicken pox documented by history, titer, or current immunization;
   d. Diphtheria/tetanus vaccination within the past 10 years (with booster required at the time of expiration);
   e. Freedom from active tuberculosis, documented annually by negative PPD skin test or by health examination;
   f. Documentation of HIV testing annually (results not required).
5. Provide non-FBI criminal background check upon acceptance.
The Refrigeration and Heating Technology program is offered only through Matanuska-Susitna College.

Four occupational endorsement certificates, one undergraduate certificate, and an Associate of Applied Science degree in Refrigeration and Heating are available. Satisfactory completion of the four specialty certificates qualifies a student for the Undergraduate Certificate in Refrigeration and Heating Technology. The AAS degree may be earned by obtaining the Undergraduate Certificate in Refrigeration and Heating Technology and successfully completing the General University and General Course Requirements for an associate's degree. A student satisfactorily completing the requirements for a certificate or the degree will possess a background in heating, air-conditioning, applied physics, mathematics, electricity, and the technical skills required to diagnose and repair modern commercial and residential heating, refrigeration, air-conditioning, and ventilation systems.

All students enrolling in the R&H program must take a standardized placement test in reading, writing, and mathematics. The faculty place heavy emphasis on student preparation for job entry-level skills.

Professional tests related to the industry are administered as part of this program. If possible, additional training may take place on the job to provide a student with work-related experience.

PROGRAM OBJECTIVES AND EXPECTED OUTCOMES

The curriculum of the Matanuska Susitna College Refrigeration and Heating program is designed to produce graduates able to:

1. Apply the fundamental laws of physics related to the heating, ventilation, air-conditioning, and refrigeration (HVAC/R) industry.
2. Use mathematical skills required to succeed in HVAC/R trades.
3. Understand and describe the function of individual components that make up HVAC/R systems.
4. Work safely with tools, torches, electricity, refrigerants, heating fuels, and other equipment and material associated with HVAC/R work.
5. Follow work practices that are environmentally responsible.
6. Obtain employment as an entry level HVAC/R technician and be able to advance professionally.
7. Work effectively with customers, employers, and co-workers.
8. Systematically troubleshoot HVAC/R systems.
9. Apply municipal, state, and national mechanical codes to decisions involving the design, installation, operation and maintenance of HVAC/R systems.

OCCUPATIONAL ENDORSEMENT CERTIFICATES

ADMISSION

Satisfy the Admissions Requirements for Occupational Endorsement Certificates in Chapter 7 of this catalog.

Students must achieve an acceptable score on placement tests in reading, writing, and mathematics.

ADVISING

Students are urged to meet with a faculty advisor prior to enrollment in RH classes.

ACADEMIC PROGRESS

Prerequisites: Certain courses require prerequisites or faculty permission.

Students must pass all courses listed in core requirements before attempting any of the specialty courses.

CERTIFICATE REQUIREMENTS

Students seeking an R&H certificate must complete the following core requirements.

Occupational Endorsement Certificate

Core Requirements – 12 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RH A103</td>
<td>Technical Mathematics for Industrial Trades</td>
<td>3</td>
</tr>
<tr>
<td>RH A105</td>
<td>Electrical Circuits for Refrigeration and Heating I</td>
<td>3</td>
</tr>
<tr>
<td>RH A109</td>
<td>Principles of Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>RH A209</td>
<td>Codes for HVAC/R</td>
<td>2</td>
</tr>
<tr>
<td>RH A211</td>
<td>Customer Relations and Job Etiquette</td>
<td>1</td>
</tr>
</tbody>
</table>

Occupational Endorsement Certificate, Residential and Light Commercial Heating and Ventilation

1. Complete the Core Requirements. 12
2. Complete the following certificate requirements:
   - RH A203 HVAC/R Basic Controls 3
   - RH A225 Heating Fundamentals and Forced Air Heat 4
   - RH A228 Advanced Hydronic Heat Systems 4
3. A total of 23 credits is required for the certificate.

Occupational Endorsement Certificate, Commercial HVAC Systems

1. Complete the Core Requirements. 12
2. Complete the following certificate requirements:
   - RH A226 Commercial HVAC/R Systems 4
   - RH A229 HVAC/R Control Systems 3
   - RH A232 HVAC/R Sheet Metal 3
3. A total of 22 credits is required for the certificate.

Occupational Endorsement Certificate, Residential and Light Commercial Air-Conditioning & Refrigeration

1. Complete the Core Requirements. 12
2. Complete the following certificate requirements:
   - RH A101 Refrigeration and Air Conditioning Fundamentals 4
   - RH A126 Electrical Circuits for Refrigeration and Heating II 3
   - RH A132 Troubleshooting for HVAC/R Systems 3
3. A total of 22 credits is required for the certificate.

Occupational Endorsement Certificate, Commercial Refrigeration Systems

1. Complete the core requirements. 12
2. Complete the following certificate requirements:
   - RH A101 Refrigeration and Air Conditioning Fundamentals 4
   - RH A122 Refrigeration and Air Conditioning 4
   - RH A201 Commercial and Ammonia Refrigeration 4
3. A total of 24 credits is required for the certificate.
ADVISING
Students are urged to meet with a faculty advisor prior to enrolling in RH courses.

ACADEMIC PROGRESS
Prerequisites: Certain courses require prerequisites or faculty permission.

Students must pass all courses listed in core requirements before attempting any of the specialty courses.

CERTIFICATE REQUIREMENTS
1. Satisfy the General University Requirements for Undergraduate Certificates found at the beginning of this chapter.
2. Complete the Core Requirements:
   - RH A103 Technical Math for Industrial Trades 3
   - RH A105 Electrical Circuits for Refrigeration and Heating I 3
   - RH A109 Principles of Thermodynamics 3
   - RH A209 Codes for HVAC/R 2
   - RH A211 Customer Relations and Job Etiquette 1
3. Complete the following requirements:
   - RH A101 Refrigeration and Air Conditioning Fundamentals 4
   - RH A122 Refrigeration and Air Conditioning 4
   - RH A126 Electrical Circuits for Refrigeration and Heating II 3
   - RH A132 Troubleshooting for HVAC/R Systems 3
   - RH A201 Commercial and Ammonia Refrigeration 4
   - RH A203 HVAC/R Basic Controls 3
   - RH A209 Codes for HVAC/R 2
   - RH A211 Customer Relations and Job Etiquette 1
   - RH A225 Heating Fundamentals and Forced Air Heat 4
   - RH A226 Commercial HVAC/R Systems 4
   - RH A228 Advanced Hydronic Heat Systems 4
   - RH A229 HVAC/R Control Systems 3
   - RH A232 HVAC/R Sheet Metal 3
4. A total of 51 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, REFRIGERATION AND HEATING TECHNOLOGY

ADMISSION REQUIREMENTS
Satisfy the requirements for Admission to Undergraduate Certificate and Associate Degree Programs in Chapter 7 of this catalog.

Students must achieve an acceptable score on placement tests in reading, writing and mathematics.

ADVISING
Students are urged to meet with a faculty advisor prior to enrolling in RH courses.

ACADEMIC PROGRESS
Earn a cumulative GPA of 2.00 (C) or higher in required R&H courses to receive the AAS.

AAS DEGREE REQUIREMENTS
1. Complete the General University Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.
2. Complete the General Course Requirements for Associate of Applied Science Degrees located at the beginning of this chapter.
3. Complete the Major Requirements for the degree listed below.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RH A103</td>
<td>Technical Math for Industrial Trades</td>
<td>3</td>
</tr>
<tr>
<td>RH A105</td>
<td>Electrical Circuits for Refrigeration and Heating I</td>
<td>3</td>
</tr>
<tr>
<td>RH A109</td>
<td>Principles of Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>RH A209</td>
<td>Codes for HVAC/R</td>
<td>2</td>
</tr>
<tr>
<td>RH A211</td>
<td>Customer Relations and Job Etiquette</td>
<td>1</td>
</tr>
<tr>
<td>RH A101</td>
<td>Refrigeration and Air Conditioning Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>RH A122</td>
<td>Refrigeration and Air Conditioning</td>
<td>4</td>
</tr>
<tr>
<td>RH A126</td>
<td>Electrical Circuits for Refrigeration and Heating II</td>
<td>3</td>
</tr>
<tr>
<td>RH A132</td>
<td>Troubleshooting for HVAC/R Systems</td>
<td>3</td>
</tr>
<tr>
<td>RH A201</td>
<td>Commercial and Ammonia Refrigeration</td>
<td>4</td>
</tr>
<tr>
<td>RH A203</td>
<td>HVAC/R Basic Controls</td>
<td>3</td>
</tr>
<tr>
<td>RH A225</td>
<td>Heating Fundamentals and Forced Air Heat</td>
<td>4</td>
</tr>
<tr>
<td>RH A226</td>
<td>Commercial HVAC/R Systems</td>
<td>4</td>
</tr>
<tr>
<td>RH A228</td>
<td>Advanced Hydronic Heat Systems</td>
<td>4</td>
</tr>
<tr>
<td>RH A229</td>
<td>HVAC/R Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>RH A232</td>
<td>HVAC/R Sheet Metal</td>
<td>3</td>
</tr>
</tbody>
</table>

A total of 66 credits is required for the degree.

FACULTY
Jack Cypher, Assistant Professor, PJFJC@matsu.alaska.edu
Dan Mielke, Assistant Professor, PFDMM@matsu.alaska.edu

TECHNOLOGY

University Center, (UC) 130, (907) 756-6423
www.uaa.alaska.edu/ctc/career/technology.cfm

The Bachelor of Science, Technology (BST) is a degree completion program for students who have earned an AAS (or a minimum of 45 related technical credits) from a regionally accredited institution and wish to pursue a baccalaureate degree. The BST offers a career pathway for technicians and professionals preparing for leadership positions. Students complete a common core of advanced technical and management courses, and they work with a faculty advisor to choose technical, quantitative, and natural science courses that prepare them to advance in their fields. Students may opt to focus their program of study through the Business emphasis in order to further develop their business acumen.

TECHNOLOGY, CAREER SPECIALTY UNDERGRADUATE CERTIFICATES
Kodiak College Technology Center Building 123, (907) 486-1209

The Technology Career Specialty Certificate programs provide entry-level skills in several specialized fields including welding, construction, and occupational safety and health.

ADMISSION REQUIREMENTS
See requirements for Admission to Undergraduate Certificate and Associate Degree Programs in Chapter 7 of the UAA catalog.

GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Undergraduate Certificates at the beginning of this chapter.
**UNDERGRADUATE CERTIFICATE, WELDING**

Students develop technical skills in various welding processes including shielded metal arc welding, gas metal arc welding, gas tungsten arc welding and plasma arc cutting. Students will also develop skills in metal fabrication and technical drawing. Upon completion of the certificate, students are prepared for entry-level positions as construction professionals. (See outcomes for Welding Technology emphasis of the AAS degree.)

1. Complete the Certificate Requirements: 30-31 Credits
   - AET A101 Fundamentals of CADD for Building Construction (4)
   - or
   - CIS A105 Introduction to Personal Computers and Application Software (3)
   - or
   - HUMS A153 Human Relations (3)
   - or
   - HUMS A155 Human Relations in the Workplace (3)
   - MATH A101 Technical Math (3)
   - or
   - MATH A105 Intermediate Algebra (3)
   - OSH A101 Introduction to Occupational Safety and Health (3)
   - or
   - PRPE A108 Introduction to College Writing (3)
   - TECH A295 Technical Internship (1)
   - WELD A112 Shielded Metal Arc Welding (4)
   - WELD A114 Welding of High Strength Steels (4)
   - WELD A157 Technical Drawing for Welders (3)
   - WELD A190 Selected Topics in Welding Technology (3)

**ASSOCIATE OF APPLIED SCIENCE, TECHNOLOGY**

The Associate of Applied Science, Technology is offered only through Kodiak College. Advising for this program is only available from Kodiak College. Please call (907) 486-1209 for more information.

The Associate of Applied Science in Technology Degree offers career specialty concentrations in the following emphasis areas:

- Construction
- Occupational Safety and Health
- Welding

The Associate of Applied Science, Technology degree program is designed to provide entry-level skills, continuing education, and advanced technical skills in several specialized fields including welding, construction, and safety. Applicants who qualify for the two-year program at Kodiak College may wish to seek advanced degrees in Technology at UAA.

Students seeking a technical career in welding, construction, or occupational safety will be well prepared as they complete the technology program. The comprehensive technology curriculum with applied math, science and technical writing components ensures student readiness for rewarding careers in a variety of technical fields.

Students successfully completing the core of the Associate of Applied Science, Technology should expect to:

1. Understand, describe and analyze the physical components and processes found in technical systems.
2. Demonstrate skills in communication, computation and human relations applicable to personal and professional situations.
3. Demonstrate and apply knowledge of physics, math and computer sciences in technical fields.
4. Understand and apply safety practices.

**ADMISSION REQUIREMENTS**

See requirements for Admission to Undergraduate Certificate and Associate Degree Programs in chapter 7 of the University of Alaska Anchorage catalog.

**GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for Associate’s Degrees in chapter 10 of the UAA catalog. Students are encouraged to meet with their academic advisor to coordinate program completion.

**MAJOR REQUIREMENTS**

1. Complete the following required courses:

   **Communication** (16 Credits)
   - COMM A111 Fundamentals of Oral Communication (3)
   - or
   - COMM A235 Small Group Communication (3)
   - or
   - COMM A237 Interpersonal Communication (3)
   - or
   - COMM A241 Public Speaking (3)

   **General Requirements** (16 Credits)
   - OSH A101 Introduction to Occupational Safety and Health (3)
   - OSH A108 Injury Prevention and Risk Management (4)
   - OSH A110 Program Assessment, Development, and Implementation (4)
   - OSH A120 Safety Program Management and Recordkeeping (3)
   - OSH A180 Introduction to Industrial Hygiene (4)
   - OSH A201 Workplace Injury and Incident Evaluation (4)
   - TECH A295 Technical Internship (2)
### UNDERGRADUATE PROGRAMS, COMMUNITY AND TECHNICAL COLLEGE

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL A111</td>
<td>Methods of Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENGL A212</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH A105</td>
<td>Intermediate Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

**Science, select from:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM A103/L</td>
<td>Survey of Chemistry with Laboratory (for Construction or OSH emphases only)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM A105/L</td>
<td>General Chemistry with Laboratory (for Construction or OSH emphases only)</td>
<td>4</td>
</tr>
<tr>
<td>GEOL A111</td>
<td>Physical Geology (for Construction emphasis only)</td>
<td>4</td>
</tr>
</tbody>
</table>

**PHYS A123/L** Basic Physics I with Laboratory (4)

### Technology Core Requirements (23 Credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AET A101</td>
<td>Fundamentals of CADD for Building Construction</td>
<td>4</td>
</tr>
<tr>
<td>CIS A105</td>
<td>Introduction to Personal Computers and Software Applications</td>
<td>3</td>
</tr>
<tr>
<td>ET A151</td>
<td>Basic Electricity for the Trades</td>
<td>4</td>
</tr>
<tr>
<td>HUMS A153</td>
<td>Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>HUMS A155</td>
<td>Human Relations in the Workplace</td>
</tr>
<tr>
<td>OSH A101</td>
<td>Introduction to Occupational Safety and Health</td>
<td>3</td>
</tr>
<tr>
<td>OSH A250</td>
<td>Hazardous Material Operations</td>
<td>3</td>
</tr>
<tr>
<td>TECH A101</td>
<td>Introduction to Technological Principles</td>
<td>3</td>
</tr>
</tbody>
</table>

### CONSTRUCTION (27 Credits)

**Outcomes**
The purpose of this degree emphasis is to produce capable graduates who can perform safely and efficiently in a construction environment. Graduates will be prepared to learn the specific needs of the industries that they serve and demonstrate the abilities:

1. **Documentation:** Create, interpret and use construction drawings and other documents and calculate quantities of material, labor, and equipment needed for a project.
2. **Human Resources:** Define the roles, relationships, and responsibilities of the participants in the construction process and understand employee relations and contract law.
3. **Building Methods:** Define structural theories and physical principles affecting structural behavior in buildings and civil works. Define the elements of civil construction, soil mechanics, foundations, roads, and construction surveying. Define basic building systems, building equipment, materials, techniques and assemblies for construction.
4. **Codes and Standards:** Interpret standard building codes for modern construction processes.
5. **Construction Project Management:** Familiarity with effective contract administration methods to control, organize, and monitor construction projects.
6. **Management Tools:** Utilize industry standard software for computer-aided drafting (CADD) and gain familiarity with estimating, scheduling and resource management.
7. **Safety:** Apply knowledge of safety, health, and environmental issues related to construction activities.

### WELDING (25 Credits)

**Outcomes**
The purpose of this degree emphasis is to produce capable graduates who can perform safely and efficiently in a welding environment. Graduates will be prepared to learn the specific needs of the industries that they serve and demonstrate:

1. **Technical and administrative skills required in today’s metal fabrication and welding environments.**
2. **Application of specifications and welding procedures to specific job tasks.**
3. **Skills in welding and thermal cutting processes and familiarity with basic metallurgy theory.**
4. **Competence in all-position welder qualification tests for two welding processes.**
5. **Safe work habits by assessing hazards and using best practices to avoid exposure to risk of injury, and to avoid damaging equipment.**
6. **Effective communication with other employees, customers, and management.**

**Bachelor of Science, Technology**
The Bachelor of Science, Technology is designed to allow students to design a program of study which compliments their technical proficiencies. The general program, as well as the business emphasis, are described below.
ADMISSION REQUIREMENTS

Satisfy the requirements for Admission to Baccalaureate Degree Programs found in Chapter 7 of this catalog.

Students who apply to the Bachelor of Science, Technology (BST) major are admitted in a pre-major status. The process for advancement to major status is:

1. Completion of an advising session with BST faculty advisor. (See contact information above.)
2. Completion of an Associate of Applied Science degree from a regionally accredited institution or equivalent credits in a technical specialty area as approved by BST faculty advisor (45 credits minimum).
3. Completion of Change of Major form from pre-major to major status signed by BST faculty advisor.

DEGREE REQUIREMENTS

1. Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.
2. Complete the General Education Requirements (GER) for Baccalaureate Degrees listed at the beginning of this chapter.
3. Complete Required Support Courses and Major Degree Requirements.

PROGRAM DESCRIPTION AND OUTCOMES

This program builds on technical skills and knowledge to achieve professional and management competencies needed over a lifetime in continuously changing technological fields. Upon completion of this program, graduates will be able to:

• Develop, demonstrate, and evaluate policies and processes to ensure a safe workplace.
• Integrate knowledge gained in the program into professional goals and objectives.
• Design, schedule, manage, and assess technical projects.
• Achieve professional and management competencies for work in technical fields.

ADVISING

All students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

Students are advised to complete at least 18 credits of upper division work in the fulfillment of General Education Requirements, ethics, and natural sciences/quantitative skills requirements.

Required Support Courses (12-14 credits)

Ethics (*PHIL A301 recommended) 3
*ENGL A312 Advanced Technical Writing 3
*MATH A107 College Algebra (4) 3-4
or
*MATH A172 Applied Finite Mathematics (3)
BA A273 Introduction to Statistics for Business and Economics (3) 3-4
or
*STAT A252 Elementary Statistics (3)
or
*STAT A253 Applied Statistics for the Sciences (4)

Note: Courses marked with an (*) fulfill UAA General Education Requirements.

MAJOR REQUIREMENTS

1. Complete an Associate of Applied Science degree from a regionally accredited institution or have earned equivalent credits (45 minimum) in a technical specialty. (Must be approved by BST faculty advisor.) 45-60+

2. Additional natural sciences or quantitative skills** 12
Choose from:
Any GER: Natural sciences or quantitative skills courses and/or
Any upper division STAT, MATH, BIOL, CHEM, GEOL, and/or PHYS courses.

**With faculty advisor approval, choose 12 credits of natural sciences or quantitative skills courses [in addition to the 10 credit minimum Natural Sciences (7) and quantitative skills (3) General Education Requirements] for which prerequisites have been met.

3. Complete the following required BST core courses (15 credits):
TECH A302 Operational Safety 3
TECH A305 Technology Management 3
TECH A433 Project Design, Implementation, and Control (3) 3
TECH A443 Quality Leadership (3) 3
TECH A453 Capstone Project 3

4. Complete a minimum of 6 credits of faculty advisor approved upper division electives related to program outcomes or professional goals. 6

5. A minimum of 120 credits is required for the Bachelor of Science, Technology degree, of which a minimum of 42 credits must be upper division.

BACHELOR OF SCIENCE, TECHNOLOGY BUSINESS EMPHASIS

PROGRAM DESCRIPTION AND OUTCOMES

The BST Business Emphasis offers students a focused program of study drawing required courses from economics and accounting and incorporating elective courses from business administration, computer information systems, or logistics. While the emphasis requires a minimum of 9 additional credits, the Business emphasis allows students to pursue more depth in their business skills. Upon completion of this program, graduates will be able to:

• Develop, demonstrate, and evaluate policies and processes to ensure a safe workplace.
• Integrate knowledge gained in the program into professional goals and objectives.
• Design, schedule, manage, and assess technical projects.
• Achieve professional and management competencies for work in technical fields.
• Synthesize and apply economic, accounting, and business knowledge within technical contexts.

ADVISING

All students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

Students are encouraged to complete ECON A201 and ENGL A212 as General Education Requirements. Students are advised to complete at least 18 credits of upper division work in the fulfillment of General Education Requirements, ethics, and natural sciences/quantitative skills requirements.

Required Support Courses (18-20 credits)

Ethics (*PHIL A301 recommended) 3
*ECON A201 Principles of Macroeconomics 3
*ECON A202 Principles of Microeconomics 3
*ENGL A312 Advanced Technical Writing 3
*MATH A107 College Algebra (4) 3-4
or
*MATH A172 Applied Finite Mathematics (3)
6. A minimum of 129 credits is required for the Bachelor of

5. Complete a minimum of 6 credits upper division

2. Complete the following 6 credits: 6

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Note: Courses marked with an (*) fulfill UAA General Education Requirements. No more than 3 credits of ECON A201 and ECON A202 may be used in fulfilling UAA General Education Requirements for a baccalaureate degree.

MAJOR REQUIREMENTS

1. Complete an Associate of Applied Science degree from a regionally accredited institution or have earned equivalent credits (45 minimum) in a technical specialty. (Must be approved by BST faculty advisor.) 45-60+

2. Complete the following 6 credits:
   - ACCT A201 Principles of Financial Accounting (3)
   - ACCT A202 Principles of Managerial Accounting (3)

3. Additional natural sciences or quantitative skills** 9
   Choose from:
   - Any GER: Natural Sciences or quantitative skills GER courses and/or
   - Any upper division STAT, MATH, BIOL, CHEM, GEOL, and/or PHYS courses.

   **With faculty advisor approval, choose 12 credits of natural sciences or quantitative skills courses (in addition to the 10 credit minimum natural sciences (7) and quantitative skills (3) General Education Requirements) for which prerequisites have been met.

4. Complete the following required BST core courses: (15 credits)
   - TECH A302 Operational Safety 3
   - TECH A305 Technology Management 3
   - TECH A433 Project Design, Implementation, and Control 3
   - TECH A443 Quality Leadership 3
   - TECH A453 Capstone Project 3

5. Complete a minimum of 6 credits upper division selects chosen from BA, CIS, ACCT, ECON or LOG. 6

6. A minimum of 129 credits is required for the Bachelor of Science, Technology degree with the business emphasis, of which a minimum of 42 credits must be upper division.

FACULTY

Angela Dirks, Assistant Professor, angela.dirks@uaa.alaska.edu

TELECOMMUNICATIONS, ELECTRONICS AND COMPUTER TECHNOLOGY

University Center (UC), Room 130, (907) 786-6426
www.uaa.alaska.edu/ctc/computers/tele

The Telecommunications, Electronics and Computer Technology Department (TECT) provides entry-level skills and career education to meet the demand for well-trained technicians in the computer electronics, telecommunications and electronics industries. The TECT Department offers an Occupational Endorsement Certificate in Cisco Certified Network Associate (CCNA) and two Undergraduate Certificates in the specialized areas of Telecommunications and Electronics Systems (TES) and Computer and Networking Technology (CNT). Both certificates require three full-time semesters to complete. An Associate of Applied Science degree in Telecommunications, Electronics and Computer Technology can be earned by completing additional required technical and general education courses.

Graduates from the TECT program can be employed as skilled technical support workers in fields including communications, microchip manufacturing, and computer support and repair in private industry as well as municipal, state, and federal agencies.

Both the Anchorage campus and the Matanuska-Susitna campus offer the program and are collaborative sites for the Fairbanks-based, statewide Information Technology Specialist (ITS), which offers a certificate and an associate degree. Students should consult the TECT faculty for assistance with curriculum planning toward certifications such as A+, Net+, CCNA, ICSA Customer Service, Microsoft Certified Professional, and other industry-recognized standards.

OCCUPATIONAL ENDORSEMENT CERTIFICATE, CISCO-CERTIFIED NETWORK ASSOCIATE (CCNA) CERTIFICATE DESCRIPTION AND OUTCOMES

At the completion of this certificate program students are able to demonstrate:

1. Proficiency in Cisco router installation and configuration in multi-protocol internetworks using LAN and WAN switches.
2. Proficiency in Cisco switch and VLAN installation and configuration.
3. Entry-level tasks of planning, design, installation, operation and troubleshooting Ethernet and TCP/IP networks.

ADMISSION REQUIREMENTS

See Admission to Occupational Endorsement Certificates in Chapter 7 of this catalog.

ADVISING

Students should consult the TECT faculty for assistance with curriculum planning toward certifications.

GENERAL UNIVERSITY REQUIREMENTS

See General University Requirements for Occupational Endorsement Certificates at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following courses:
   - CNT A170 Cisco Academy Network Fundamentals 4
   - CNT A261 Cisco Academy Router Fundamentals 4
   - CNT A270 Cisco Academy & Switching Intermediate Routing 4
   - CNT A271 Cisco Academy WAN Management 3

2. A total of 15 credits is required for the occupational endorsement certificate.

UNDERGRADUATE CERTIFICATE, COMPUTER AND NETWORKING TECHNOLOGY

CERTIFICATE DESCRIPTION AND OUTCOMES

This certificate program prepares students to install, configure, operate and repair networks used to connect computing and digital communications systems of various types. At the completion of the program students are able to demonstrate:

1. Proficiency in PC troubleshooting and repair.
2. Competence in entry-level tasks of planning, design, installation, and troubleshooting Ethernet and TCP/IP networks.
3. Computer literacy in PC applications and operating systems.
4. Entry-level employability skills for computer and network technicians.
5. Job upgrade skills for technicians and professionals.
6. Proper customer service skills.
8. Proficiency in Cisco switch and VLAN installation and configuration.

ADMISSION REQUIREMENTS
See Undergraduate Certificate Admissions in Chapter 7 of this catalog.

ADVISING
Students should consult the TECT faculty for assistance with curriculum planning toward certifications.

GENERAL UNIVERSITY REQUIREMENTS
See General University Requirements for Undergraduate Certificates at the beginning of this chapter.

MAJOR REQUIREMENTS
1. Complete the following requirements (29 credits):
   - CNT A160 PC Operating Systems 3
   - CNT A162 PC Building, Upgrading & Architecture 3
   - CNT A165 Customer Service Fundamentals 1
   - CNT A170 Cisco Academy Network Fundamentals 4
   - CNT A180 PC Interfacing, Peripherals, Storage & A+ 4
   - CNT A183 Local Area Networks & Net+ 3
   - CNT A261 Cisco Academy Router Fundamentals 4
   - CNT A270 Cisco Academy Intermediate Routing and Switching 4
   - CNT A271 Cisco Academy WAN Management 3
2. Complete 6 credits from the following courses: 6
   - CNT A262 Computer Technical Support (2)
   - CNT A264 Introduction to Information Security (3)
   - CNT A272 Cisco Wireless Networking (3)
   - CNT A290 Selected Topics in Information Technology (1-3)
3. Complete 5 credits from the following courses: 5
   - CNT A240 Windows System Essentials (2)
   - CNT A241 Administrating And Supporting Windows Workstations and Servers (3)
   - CNT A280 Server Operating Systems (3)
4. Complete 3 credits from the following courses: 3
   - CNT A163 Introduction to Networking 1
   - CNT A260 Instrumentation & Control Processes 3
   - ET A160 DC Electrical Systems 3
   - ET A161 DC Lab 1
   - ET A162 AC Electrical Systems 3
   - ET A163 AC Lab 1
   - ET A164 Introduction to Semiconductors 1
   - ET A165 Introduction to Digital Devices 1
   - ET A180 Semiconductors Devices 4
   - ET A181 Advanced Digital Devices 2
   - ET A182 Applied Integrated Circuits 2
   - ET A183 Data Communications 1
   - ET A184 Telecommunications 2
   - ET A185 Transmitters and Receivers 3
   - ET A260 Instrumentation & Control Processes 3
   - ET A261 Electronic System Troubleshooting 2
   - ET A262 Transmitters, Receivers, and Advanced Communications 3
   - CNT A163 Introduction to Networking 1
   - CNT A164 Network Cabling 1
   - CNT A165 Customer Service Fundamentals 1
2. Complete 3 credits from the following courses: 3
   - PRPE A108 Introduction to College Writing (3)
   - ENGL A109 Introduction to Writing in Academic Contexts (3)
   - Written communications General Education Requirement (3)
   - Note: English A111 is required for the AAS degree.
3. Complete 3 credits from the following: 3
   - CNT A163 Introduction to Networking 1
   - CNT A164 Network Cabling 1
   - CNT A165 Customer Service Fundamentals 1
   - Written Communications General Education Requirement (3)
   - Note: English A111 is required for the AAS degree.
6. A total of 46 credits is required for the certificate.
ASSOCIATE OF APPLIED SCIENCE, TELECOMMUNICATIONS, ELECTRONICS AND COMPUTER TECHNOLOGY

DEGREE DESCRIPTION AND OUTCOMES

At the completion of the Computer and Networking Technology track of this associate degree program, students are able to demonstrate:

1. Proficiency in electronic theory, equipment maintenance and troubleshooting.
2. Proficiency in electronic communications and telecommunications.
3. Computer literacy in PC applications and operating systems.
4. Good customer service skills.
5. Proficiency in PC troubleshooting and repair.
6. The installation configuration and troubleshooting Microsoft operating systems.
7. The configuration and maintenance of network and computer system security.
8. Proper customer service skills.
9. Entry-level tasks of planning, design, installation, operation and maintenance of communications and computer systems.
10. System security.

ADMISSION REQUIREMENTS

See Admission to Undergraduate Certificate and Associate Degree Programs at the beginning of this chapter.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate’s Degrees listed at the beginning of this chapter.
2. Complete the Associate of Applied Science Requirements (15 credits) listed at the beginning of this chapter.

GENERAL COURSE REQUIREMENTS

Complete the General Course Requirements for AAS degrees listed at the beginning of this chapter.

MAJOR REQUIREMENTS

Complete one of the following tracks:

COMPUTER AND NETWORKING TRACK (52 credits)

1. Complete the following requirements (29 credits):
   - CNT A160 PC Operating System 3
   - CNT A162 PC Building, Upgrading & Architecture 3
   - CNT A165 Customer Service Fundamentals 1
   - CNT A170 Cisco Academy Network Fundamentals 4
   - CNT A180 PC Interfacing, Peripherals, Storage & A+ 4
   - CNT A183 Local Area Networks & Net+ 3
   - CNT A261 Cisco Academy Router Fundamentals 4
   - CNT A270 Cisco Academy Intermediate Routing and Switching 4
   - CNT A271 Cisco Academy WAN Management 3
   - CNT A262 Computer Technical Support (2)

   2. Complete 9 credits from the following courses:

   3. Complete 8 credits from the following courses:
   - CNT A280 Server Operating Systems (3)
   - CIS A185 Introduction to Programming Business Applications (3)
   - CS A101 Introduction to Computer Science (3)
   - CS A109 Computer Programming (Languages Vary) (3)
   - CS A110 Java Programming (3)
   - CS A111 Visual Basic.NET Programming (3)

   4. Complete 3 credits from the following courses:
   - CIOS A113 Operating Systems: MS Windows (1)
   - CIOS A120A Bookkeeping Software Application I: Quickbooks (1)
   - CIOS A130A Word Processing I: MS Word (1)
   - CIOS A130B Word Processing I: WordPerfect (1)
   - CIOS A135A Spreadsheets I: MS Excel (1)
   - CIOS A146 Internet Concepts and Applications (2)
   - CIOS A150A Presentations: MS PowerPoint (2)
   - CIS A105 Introduction to Personal Computers and Applications Software (3)
   - CIS A110 Computer Concepts in Business (3)
   - CNT A290 Selected Topics in Information Technology (1-3)

TELECOMMUNICATIONS AND ELECTRONICS SYSTEMS TRACK (45 credits)

1. Complete the following requirements (39 Credits):
   - ET A160 DC Electrical Systems 3
   - ET A161 DC Lab 1
   - ET A162 AC Electrical Systems 3
   - ET A163 AC Lab 1
   - ET A164 Introduction to Semiconductors 1
   - ET A165 Introduction to Digital Devices 1
   - ET A166 Technical Calculations and Applications 2
   - ET A180 Semiconductors Devices 4
   - ET A181 Advanced Digital Devices 2
   - ET A182 Applied Integrated Circuits 2
   - ET A183 Data Communications 1
   - ET A184 Telecommunications 2
   - ET A185 Transmitters and Receivers 3
   - ET A260 Instrumentation & Control Processes 3
   - ET A261 Electronic System Troubleshooting 2
   - ET A262 Transmitters, Receivers, and Advanced Communications 3
   - ET A280 Programmable Logic Controllers 3
   - CNT A163 Introduction to Networking 1
   - CNT A164 Network Cabling 1
   - CNT A165 Customer Service Fundamentals 1
   - ET A276 Individual Technical Project (3)
   - ET A282 Industry Workplace Experience (3)

2. Complete 3 credits from the following:
   - CIOS A113 Operating Systems: MS Windows (1)
   - CIOS A117 Logic Concepts for Computer Technology (1)
   - CIOS A120A Bookkeeping Software Application I: Quickbooks (1)
   - CIOS A130A Word Processing I: MS Word (1)

   3. Complete 3 credits from the following:
   - CNT A264 Introduction to Information Security (3)
   - CNT A272 Cisco Wireless Networking (3)
   - CNT A276 Independent Project (3)
   - CNT A282 Work Study (3)
   - CNT A290 Selected Topics in Information Technology (1-3)
VETERINARY ASSISTING

Matanuska-Susitna College
Palmer, AK (907) 745-9774
www.matsu.alaska.edu

The Veterinary Assisting program is offered through Matanuska-Susitna College.

OCCUPATIONAL ENDORSEMENT CERTIFICATE, VETERINARY ASSISTING

A Veterinary Assistant plays a vital role within the veterinary profession. In the Veterinary Assisting Occupational Endorsement Certificate Program, students learn how to assist and support the veterinarian and the veterinary technician in their daily tasks. Students will learn the fundamentals required for the care, treatment, and management of both the animals as patients and people as clients. Students learn the fundamentals of good customer service, communication skills, and the essentials of clerical responsibilities. They further learn the fundamental skills of proper handling, nutrition, and nursing care for both large and small animals. Students are introduced to clinical patient management and laboratory procedures.

CERTIFICATE OUTCOMES

Upon completion of the Occupational Endorsement Certificate, students will demonstrate:

- Knowledge of veterinary practice administration
- Basic ability to handle and restrain large and small animals
- Understanding of basic medical terminology
- Introductory understanding of animal anatomy and physiology
- Entry level skills for laboratory procedures
- Effective customer service and communication skills

ADMISSION REQUIREMENTS

See Admission to Occupational Endorsement Certificate in Chapter 7 of this catalog.

CERTIFICATE REQUIREMENTS

In order to receive the Veterinary Assisting Occupational Endorsement Certificate, students must achieve a grade of C or better in all courses required for the Occupational Endorsement Certificate.

1. Complete the following required courses:
   - VETT A101 Introduction to the Veterinary Profession 1
   - VETT A103 Veterinary Office Procedures 3
   - VETT A122 Basic Handling & Behavior: Small Animals 2
   - VETT A123 Basic Handling & Behavior: Large Animals 2
   - VETT A124 Introduction to Small Animals 3

2. A total of 21 credits are required for this Occupational Endorsement Certificate.

FACULTY

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George Rex Plunkett, Assistant Professor, AFGRP@uaa.alaska.edu
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VETERINARY ASSISTING

Matanuska-Susitna College
Palmer, AK (907) 745-9774
www.matsu.alaska.edu

The Veterinary Assisting program is offered through Matanuska-Susitna College.

ADDITIONAL CREDENTIALS AND ATECHnochbury OPTIONS

See Admission to Undergraduate Certificate and Associate Degree Programs Chapter 7 of this catalog.

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Undergraduate Certificates at the beginning of this chapter.

ADVISING

Students should consult the Anchorage or Kenai WELD faculty for assistance with course planning towards certifications.

ACADEMIC PROGRESS REQUIREMENTS

Students must complete certificate course requirements with a minimum cumulative GPA of 2.00.

WELDING & NONDESTRUCTIVE TESTING TECHNOLOGY

Anchorage
Gordon Hartlieb Hall (GHH), Room 111, (907) 786-6475
www.uaa.alaska.edu/ctc/construction/weld

Kenai
www.kpc.alaska.edu/academics/cert_welding.html

The Welding and Nondestructive Testing Technology program prepares students for employment in welding and/ or nondestructive examination as entry-level technicians. A variety of career opportunities are available to welding technicians and nondestructive examination technicians. Both of these fields are utilized in construction, manufacturing, and transportation industries throughout the world.

The Welding and Nondestructive Testing (NDT) program offers an Associate of Applied Science (AAS) degree in Welding and Nondestructive Testing Technology, and two separate Undergraduate Certificates in either Industrial Welding Technology or Nondestructive Testing Technology. Welding and NDT are combined in the AAS degree. Kenai Peninsula College also offers an Undergraduate Certificate in Welding Technology as described in this catalog section.

Industrial welding technician students develop manual skills in four main welding processes and three thermal cutting processes, as well as gain a wide range of technical knowledge in welding application, procedure/welder qualification, reading plans and specifications, and applied metallurgy. Welder qualification tests are administered as prescribed in AWS D1.1, API Standard 1104, or ASME IX welding codes. Nondestructive Testing technician students examine metallic components or weldments to locate and evaluate discontinuities by learning to apply liquid penetrant (PT), magnetic particle (MT), eddy current (ET), radiographic (RT) and ultrasonic (UT) test methods. Student qualification in each NDT method is based on general, specific and practical examinations administered as prescribed in the American Society for Nondestructive Testing (ASNT) Recommended Practice No. SNT-TC-1A.

UNDERGRADUATE CERTIFICATES

ADMISSION REQUIREMENTS

See Admission to Undergraduate Certificate and Associate Degree Programs Chapter 7 of this catalog.

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Undergraduate Certificates at the beginning of this chapter.

ADVISING

Students should consult the Anchorage or Kenai WELD faculty for assistance with course planning towards certifications.

ACADEMIC PROGRESS REQUIREMENTS

Students must complete certificate course requirements with a minimum cumulative GPA of 2.00.
**UNDERGRADUATE CERTIFICATE, INDUSTRIAL WELDING TECHNOLOGY**

**CERTIFICATE DESCRIPTION AND OUTCOMES**

Industrial welding technician students develop manual skills in four main welding processes and three thermal cutting processes, as well as gain a wide range of technical knowledge in welding application, procedure/welder qualification, reading plans and specifications, and applied metallurgy. Welder qualification tests are administered as prescribed in AWS D1.1, API Standard 1104, or ASME IX welding codes.

At the completion of the program, students are able to demonstrate:

1. Entry-level technical skills in welding
2. Hazard assessment and best safety practices to avoid exposing themselves or others to risk of injury and avoiding damage to equipment.

**Certificate Requirements**

1. Complete the following required courses (24 credits):
   - WELD A112 Shielded Metal Arc Welding (SMAW) (4)
   - WELD A157 Technical Drawings for Welders (3)
   - WELD A161 Gas Metal Arc Welding (GMAW) (4)
   - WELD A162 Flux Cored Arc Welding (FCAW) (4)
   - WELD A174 Gas Tungsten Arc Welding (GTAW) (4)
   - WELD A287 Welding Metallurgy Applications (5)
   - WELD A117 Basic Pipelining (4)
   - WELD A118 Welding Fabrication and Manufacturing (4)
   - TECH A295 Technical Internship (advisor approved) (2-4)
   - WELD A190 Selected Topics in Welding Technology (2-4)
   - WELD A290 Selected Topics in Nondestructive Testing (1-4)

2. Complete one of the following courses (2 - 4 credits):
   - WELD A102 Gas Welding (2)
   - WELD A114 Welding of High Strength Steels (4)
   - WELD A121 Pipe Welding Vertical-Down (SMAW) (4)
   - WELD A122 Pipe Welding Vertical-Up (SMAW) (4)

3. Complete one of the following courses (4 credits):
   - WELD A141 Shielded Metal Arc Welding (SMAW) (4)
   - WELD A161 Gas Metal Arc Welding (GMAW) (4)
   - WELD A162 Flux Cored Arc Welding (FCAW) (4)
   - WELD A174 Gas Tungsten Arc Welding (GTAW) (4)

4. Pass two separate NDT method qualification tests.
5. A total of 32 - 35 credits is required for the Undergraduate Certificate in Nondestructive Testing Technology.

**GRADUATION REQUIREMENTS**

Students must pass three separate all-position welder qualification tests for a certificate in Welding Technology. Students must pass two NDT method qualification tests for a certificate in Nondestructive Testing Technology. Qualification tests are administered near the end of each applicable course.

**UNDERGRADUATE CERTIFICATE, NONDESTRUCTIVE TESTING TECHNOLOGY**

**CERTIFICATE DESCRIPTION AND OUTCOMES**

Nondestructive Testing Technology students examine metallic components or weldments to locate and evaluate discontinuities by learning to apply liquid penetrant (PT), magnetic particle (MT), eddy current (ET), radiographic (RT) and ultrasonic (UT) test methods. Student qualification in each NDT method is based on general, specific and practical examinations administered as prescribed in the American Society for Nondestructive Testing (ASNT) Recommended Practice No. SNT-TC-1A.

At the completion of the program, students are able to demonstrate:

1. Entry-level technical skills in nondestructive examination
2. Technical knowledge of the interrelationship between welding and inspection processes.

**Certificate Requirements**

1. Complete the following requirements:
   - MATH A105 Intermediate Algebra 3
   - PRPE A108 Introduction to College Writing (3) 3
   - ENGL A111 Methods of Written Communication (3) 3
   - COMM A111 Fundamentals of Oral Communication (3)
   - WELD A102 Gas Welding 2

2. Hazard assessment and best safety practices to avoid exposing themselves or others to risk of injury and avoiding damage to equipment.

**GRADUATION REQUIREMENTS**

Students must pass three separate all-position welder qualification tests for a certificate in Welding Technology. Students must pass two NDT method qualification tests for a certificate in Nondestructive Testing Technology. Qualification tests are administered near the end of each applicable course.

**GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University and the General Course Requirements for certificates located at the beginning of this chapter.
ASSOCIATE OF APPLIED SCIENCE, WELDING
AND NONDESTRUCTIVE TESTING TECHNOLOGY

DEGREE DESCRIPTION AND OUTCOMES
This associate’s degree prepares students with the technical and administrative skills required in today’s metal fabrication and inspection environments. Graduates of this program will be able to apply specifications and codes to complete specific job tasks.

At the completion of the program, students are able to demonstrate:
1. Entry-level technical skills in welding and nondestructive examination.
2. Technical knowledge of the interrelationship between welding and inspection processes.
3. Hazard assessment and best safety practices to avoid exposing themselves or others to risk of injury and avoiding damage to equipment.
4. Effective communication with other employees, customers, and management.

ADMISSION REQUIREMENTS
See the Associate of Applied Science Degree admissions in Chapter 7 of this catalog.

GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Associate of Applied Science Degrees at the beginning of this chapter.

GENERAL COURSE REQUIREMENTS
Complete the General Course Requirements for AAS degrees listed at the beginning of this chapter.

ADVISING
Students should consult the Anchorage or Kenai WELD faculty for assistance with course planning towards the AAS degree.

MAJOR REQUIREMENTS
1. Complete the following required courses:
   - ENGL A111 Methods of Written Communication 3
   - ENGL A212 Technical Writing 3
   - MATH A105 Intermediate Algebra 3
   - Additional AAS General Education Requirements 6
   - PHYS A101 Physics for Poets (3) 3-4
   - or
   - PHYS A115 Physical Science with Laboratory (4) or
   - PHYS A123 Basic Physics I (3)

   - WELD A112 Shielded Metal Arc Welding (SMAW) 4
   - WELD A157 Technical Drawings for Welders 3
   - WELD A161 Gas Metal Arc Welding (GMAW) 4
   - WELD A162 Flux Cored Welding (FCAW) 4
   - WELD A174 Gas Tungsten Arc Welding (GTAW) 4
   - WELD A261 Ultrasonic Testing 4
   - WELD A262 General Nondestructive Testing 3
   - WELD A263 Radiographic Testing Safety 2
   - WELD A264 Radiographic Testing 3
   - WELD A281 Welding Inspection and Code Review 4
   - WELD A287 Welding Metallurgy Applications 5

FACULTY
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Eli van Ringelenstein, Anchorage, Instructor, AFEV@uaa.alaska.edu
SCHOOL OF ENGINEERING

Engineering embraces the wide range of cultural and technical subjects related to the planning, design and manufacture, or construction of objects necessary for civilization. An engineer is an innovator, a builder and a problem solver. Engineers turn scientific knowledge into useful goods and services and are responsible to society for their engineering design decisions. They are interested in creating and working with people often as team members in positions of leadership. Engineers are concerned about people and ways to provide society with improved living standards.

The School of Engineering offers areas of study at the undergraduate level:

- A four-year program leading to a Bachelor of Science in Civil Engineering;
- A four-year program leading to a Bachelor of Science in Computer Systems Engineering, Electrical Engineering, or Mechanical Engineering.
- A minor degree in General Engineering, Civil Engineering, Computer Systems Engineering, Electrical Engineering, or Mechanical Engineering.

CIVIL ENGINEERING

The UAA School of Engineering offers a Bachelor of Science in Civil Engineering to prepare students for the profession in which knowledge of mathematical and physical sciences gained by study, experience and practice is applied with judgement to develop ways to utilize materials and forces of nature for the progressive well-being of humanity in creating, improving, and protecting the environment, in providing facilities for community living, industry and transportation, and in providing structures for the use of humanity.

ENGINEERING

The UAA School of Engineering offers a Bachelor of Science in Engineering (BSE) degree with specializations in Computer Systems Engineering, Electrical Engineering, or Mechanical Engineering. Graduates with a BSE degree have a broad range of engineering skills that is often necessary when serving the infrastructure needs of remote rural areas typical of many Alaskan communities. The program emphasizes fundamental engineering principles as a basis for interdisciplinary design, teamwork, and for lifelong learning. Graduates are in a position to take advantage of a wide variety of professional opportunities and are well prepared for an engineering career in a technologically changing world.

GEOMATICS

Geomatics embraces the traditional disciplines of land surveying, mapping, geodesy, photogrammetry, and hydrography, together with the newer disciplines of remote sensing, digital photogrammetry, and spatial or geographic information systems (GIS). Geomaticians help design, map and manage the natural and the man-made resources of the earth. Their skills and efforts are important in project development and environmental protection. They gather, analyze, and manipulate data, map results and help design new developments. The disciplines used in geomatics are based on advancing technologies and use an integrated approach to the acquisition, analysis, storage, distribution, management, and application of spatially referenced data.

MINOR DEGREES IN ENGINEERING

The School of Engineering offers minor degrees to meet two sets of student needs. The first is a minor degree in General Engineering which is for students that are majoring in a non-engineering baccalaureate degree. The second is an Engineering Specialty minor program which is for students majoring in an engineering baccalaureate degree and, therefore, have completed much of the coursework in the Bachelor of Science in Engineering (BSE) or Civil Engineering (CE) program. Engineering Specialty minor degrees are in civil engineering, computer systems engineering, electrical engineering, or mechanical engineering.

CIVIL ENGINEERING

Engineering Building (ENGR), Room 201, (907) 786-1900 www.engr.uaa.alaska.edu

Civil engineering is a professional discipline recognized by licensure in each of the 50 states and many other countries. Civil engineering is a broad branch of engineering dedicated to providing civilization with essential infrastructure and services including bridges, buildings, ports, water resource development, waste disposal, dams, water power, irrigation and drainage works, roads, airports, railways, construction and management services; surveying; and city management and development planning.

Civil Engineering students are introduced to principles of mathematics, chemistry, and physics during their first two years of study. The third year of study is largely devoted to courses in applied extensions of the basic sciences to form the foundation for more advanced engineering analysis and design. Students draw upon previous learning in their senior year to focus their studies on sophisticated analyses and creative designs. Throughout the four-year engineering program students take courses in communication, humanities, social sciences, and fine arts to improve their communication skills and to become more aware of their roles and responsibilities in modern society. The UAA Civil Engineering program emphasizes northern region design considerations and provides specialized training appropriate for an engineering career in Alaska and other cold regions of the world.

BACHELOR OF SCIENCE, CIVIL ENGINEERING

The Department of Civil Engineering offers an undergraduate curriculum leading to a Bachelor of Science degree in Civil Engineering. The first two years of the program have application to most other branches of engineering.

ACCREDITATION

The Bachelor of Science degree program in Civil Engineering at UAA is accredited by the ABET, Inc., which is the only accreditor of engineering programs and related fields of study in the US.

PROGRAM OBJECTIVES AND EXPECTED OUTCOMES

The curriculum of the UAA civil engineering program is designed to produce graduates that:

1. Have a basic knowledge of the principles and skills relating to the civil engineering sub-disciplines of water resources, geotechnical, structural, transportation, and environmental engineering;
2. Have an understanding of the principles related to project delivery;
3. Have sufficient technical competence to obtain employment as an entry-level engineer and to be able to progress professionally within the discipline, and are prepared for advanced study;
4. Have a fundamental understanding of the issues related to civil engineering practice in cold regions;
5. Are able to communicate their ideas;
6. Are able to work within a team environment; and
7. Are prepared for and understand the need for continued professional development throughout their careers.

In keeping with the objectives, it is expected that graduates of the UAA Civil Engineering program will have:

1. An ability to apply knowledge of mathematics through differential equations, probability and statistics, calculus-based physics, and general chemistry;
HONORS IN CIVIL ENGINEERING

Undergraduate Civil Engineering students may be recognized for exceptional performance by earning Departmental Honors in Civil Engineering. In order to receive honors in Civil Engineering, a student must meet each of the following requirements:

1. Complete all requirements for a BS degree in Civil Engineering. A minimum of 30 credits applicable to the civil engineering degree must be completed at UAA.
2. Be an active member for at least one year of both a national and an on-campus student chapter of a professional engineering society that addresses issues relevant to the civil engineering profession.
3. Have a GPA of 3.30 or higher in courses applicable to the Bachelor of Science in Civil Engineering degree.
4. Gain approval for a departmental honors design or research project prior to applying for graduation. Present an oral presentation and written report of project results eight weeks prior to scheduled graduation. The project proposal and final written report must be approved by the student’s academic advisor and the chair of civil engineering.
5. Pass the Fundamentals of Engineering Examination in or prior to the fall semester of the senior year.
6. Document a minimum of eight weeks work experience in an engineering or engineering-related position.

ADMISSION REQUIREMENTS

Admission to the Civil Engineering program is to one of two levels: Pre-Engineering or Civil Engineering. Students admitted to either of the two levels are considered to be degree seeking engineering students. Pre-Engineering students are classified within the university system as pre-majors. Civil Engineering students are classified within the university system as full majors.

Pre-Engineering

Applicants for admission who have completed only the general Baccalaureate Degree Program Admission Requirements in Chapter 7, Academic Standards and Regulations, are admitted as pre-majors to the Civil Engineering program at the Pre-Engineering level.

Civil Engineering

Applicants for admission who, in addition to the general Baccalaureate Degree Program Admission Requirements, have completed the following list of high school courses (or their university equivalents) with grades of C or better will be admitted as full majors to the civil engineering program at the Engineering Fundamentals level:

- Algebra: 2 years
- Chemistry: 1 year
- English: 3 years
- Physics: 1 year
- Trigonometry: 1/2 year

ADVANCEMENT

Pre-Engineering to Civil Engineering

Pre-Engineering students must work with their assigned advisor to develop a course plan to make up the high school course requirements for advancement to the Civil Engineering full major. Once the Pre-Engineering coursework outlined in the student’s course plan is completed, students must meet with their advisor to apply for advancement to Engineering full-major status.

ADVISING

All undergraduate students are strongly encouraged to meet with their faculty advisor each semester for the purpose of reviewing their academic progress and planning future courses. All civil engineering students are required to meet with their faculty advisors to be advanced within the program and to apply for graduation. It is particularly important for students to meet with their faculty advisor whenever academic difficulties arise.

ACADEMIC PROGRESS

Any given CE or ES course may only be taken when all prerequisites for the course are met with a grade of C or higher. A student who is unable to earn a grade of C or better in a CE or ES prerequisite course may attempt to earn a satisfactory grade one additional time, on a space-available basis. Failure to earn a grade of C or better on the second attempt results in removal from the civil engineering program.

A student who has a semester GPA in engineering courses below 2.00 will be placed on academic warning by the School of Engineering. A student on academic warning that receives a semester GPA in engineering courses of at least 2.00 will be removed from academic warning status by the School. Otherwise, he or she will be removed from the civil engineering program and will not be permitted to enroll in CE and ES courses.

GRADUATION REQUIREMENTS

In order to receive the Bachelor of Science degree in Civil Engineering, students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees (GER) listed at the beginning of this chapter with the additional requirement that one of the following criteria are met within the courses taken to meet the social sciences, humanities, and fine arts GER requirements:

1. Six credits are from courses that are at the 200-level or above.
2. Three credits are from courses that are at the 200-level or above and 6 credits are from a sequence of courses at the 100-level. For example, HIST 101 and HIST 102 is considered to be a 6-credit course sequence.
3. Twelve credits are from two course sequences of 6 credits each at the 100 level.

C. CIVIL ENGINEERING REQUIREMENTS

Satisfactorily complete these courses with a GPA of 2.00. Courses with an asterisk (*) must be completed with a grade of C or better (61 credits):

- CE A334: Properties of Materials 3
- CE A344: Water Resources Engineering 3
- CE A402: Transportation Engineering 3
- CE A403: Arctic Engineering 3
- CE A422: Foundation Engineering 3
- CE A431: Structural Analysis 4
- CE A432: Steel Design (3) 3
- or
3. Six credits of technical elective courses are required that may be chosen from the following list:

CE A433  Reinforced Concrete Design (3)
CE A435*  Soil Mechanics 3
CE A438  Design of Civil Engineering Systems 3
CE A441  Introduction to Environmental Engineering 3
CHEM A105*  General Chemistry I 3
CHEM A105L*  General Chemistry I Lab 1
CHEM A106*  General Chemistry II 3
CHEM A106L*  General Chemistry II Lab 1
COMM A111, A235, A237, or A241* 3
ENGL A111*  Methods of Written Communications 3
ENGL A212  Technical Writing 3
ENGR A151*  Engineering Practices I 3
ENGR A161*  Engineering Practices II 3
ES A103  Engineering Graphics 3
ES A209*  Engineering Statics 3
ES A210*  Engineering Dynamics 3
ES A302*  Engineering Data Analysis 3
ES A309  Elements of Electrical Engineering 3
ES A331*  Mechanics of Materials 3
ES A341*  Fluid Mechanics 4
ES A346  Basic Thermodynamics 3
ESM A450  Economic Analysis and Operations 3
GEO A111  Physical Geology (4)
GEO A155  Engineering Geology (4)
MATH A200*  Calculus I 4
MATH A201*  Calculus II 4
MATH A202*  Calculus III 4
MATH A302*  Ordinary Differential Equations 3
PHYS A211*  General Physics I 3
PHYS A211L*  General Physics I Lab 1
PHYS A212*  General Physics II 3
PHYS A212L*  General Physics II Lab 1

2. A natural science elective (minimum 3 credits) must be taken in addition to the 7-credit natural science General Education Requirement and may be selected from the following list:

Biol A115/L  Fundamentals of Biology I (4)
Biol A271/L  Principles of Ecology (4)
CHEM A450  Environmental Chemistry (3)
GEO A111  Physical Geology (4)
GEO/L  A117  Fundamentals of Oceanography (3)
PHYS A303  Modern Physics (3)
PHYS A314  Electromagnetics (3)
PHYS A320  Simulation of Physical Systems (3)
PHYS A456  Nonlinear Dynamics and Chaos (3)

Note: GEOL A111 is the recommended course.

3. Six credits of technical elective courses are required that may be chosen from the following list of courses. These electives are intended to improve students' knowledge and skills relating to site characterization, problem identification, criteria development, and project design in the civil engineering sub-disciplines of water resources, geotechnical, structural, transportation, and environmental engineering. Graduate courses may not be applied to both a baccalaureate and master's degree.

Water Resources Engineering:
CE A662  Surface Water Dynamics (3)
CE A663  Ground Water Dynamics (3)
CE A674  Waves, Tides, and Ocean Process (3)
CE A677  Coastal Measurements and Analysis (3)
CE A682  Ice Engineering (3)
CE A683  Arctic Hydrology & Hydraulic Engineering (3)
CE A684  Arctic Utility Distribution (3)

Geotechnical Engineering:
CE A676  Coastal Processes (3)
CE A681  Frozen Ground Engineering (3)

Structural Engineering:
CE A432  Steel Design (3)
CE A433  Reinforced Concrete Design** (3)

CE A434  Timber Design (3)
CE A610  Engineering Seismology (3)
CE A611  Geotechnical Earthquake Engineering (3)
CE A612  Advanced Foundation Design (3)
CE A631  Structural Finite Elements (3)
CE A633  Structural Dynamics (3)
CE A634  Structural Earthquake Engineering (3)
CE A636  Multi-Story Buildings Structural Design (3)
CE A637  Earthquake Resistant Structural Design (3)
CE A639  Loads on Structures (3)

** Note: Either CE A432 or CE A433 may be chosen as a technical elective, if not applied to satisfy the Civil Engineering Professional requirements described above.

Transportation Engineering:
CE A423  Traffic Engineering (3)
CE A424  Pavement Design (3)
CE A425  Highway Engineering (3)
CE A675  Design of Ports and Harbors (3)
GEO A456  Geomatics and Civil Design (3)

Environmental Engineering:
AEST A601  Aquatic Processes Chemistry (3)
AEST A602  Water Quality Management (3)
AEST A603  Solid Waste Management (3)
AEST A604  Environmental Law, Regulations and Permitting (3)
AEST A605  National Environmental Protection Act (3)
AEST A606  Clean Water Act (3)
AEST A608  Air Pollution (3)
AEST A613  Remediation (3)
CE A442  Environmental System Design (3)
CE A600  Fundamentals of Environmental Science and Engineering (3)
CE A605  Chemical and Physical Water and Wastewater Treatment Processes (3)
CE A606  Biological Treatment Processes (3)

4. A total of 132 credits is required for the degree, of which 42 credits must be upper division (300-, 400-, or 600-level).

5. All Civil Engineering students are strongly encouraged to take the Fundamentals of Engineering Examination in their senior year as an initial step toward professional registration. Civil Engineering students are also encouraged to consider minors in Mathematics or Physics and graduation with departmental honors.

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ELECTRICAL ENGINEERING

Engineering Building (ENGR), Room 201, (907) 786-1900 www.engr.uaa.alaska.edu

Electrical engineering encompasses the areas of computer applications and design, electrical power transmission and distribution, telecommunications, and electronics. The electrical engineer designs and oversees the construction, installation, and maintenance of electrical...
systems providing light, heat, and power. Engineers design the communications of telephone, radio, and television as well as the transistor and integrated circuits used in these systems. People trained in computer engineering automate businesses, factories, pipelines, and refineries; and design control systems and computers which guide trains, planes, and space vehicles. Even the test devices and tools of investigation—in medicine, in physics, in geology and in other sciences—are today largely electronic.

Because electrical engineering is based on mathematics, chemistry, and physics, students are introduced to the basic principles in these areas during their first two years of study. They are also exposed to a variety of introductory courses in engineering science and to courses in communication, the humanities, social sciences, and/or fine arts.

**TWO-YEAR PROGRAM ELECTRICAL ENGINEERING**

The School of Engineering offers a program of studies that allow the completion of the first two years of a four-year program leading to the Bachelor of Science degree in Electrical Engineering. The program is coordinated with the University of Alaska Fairbanks (UAF) College of Science, Engineering and Mathematics. It allows students to transfer into the Electrical Engineering program at UAF as third year students with no loss of credit.

**ADMISSION REQUIREMENTS**

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations. In addition, students entering the undergraduate engineering program must have completed the following high school courses with grades of C or better:

- Algebra 2 years
- Chemistry 1 year
- English 3 years
- Physics 1 year
- Trigonometry 1/2 year

It is recommended that students graduating from high school without satisfactorily completing the courses noted above enroll in the necessary courses to make up deficiencies during the summer session. Only those students admitted to the undergraduate engineering program may take courses offered by the School of Engineering at the 200-level or above. Students not admitted to the program may petition the School of Engineering to be admitted to individual courses.

**ADVISING**

All undergraduate students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

**ACADEMIC PROGRESS**

All prerequisites for engineering courses must be completed with a grade of C or higher.

A student who is unable to earn a satisfactory grade in an engineering course during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space-available basis.

A student who has a semester GPA in engineering courses below 2.00 will be placed on academic warning by the school of Engineering. If a student on academic warning status receives a semester GPA for engineering courses of at least 2.00, that student will be removed from academic warning status by the School. Otherwise, they will be disqualified from further study in the School of Engineering and will not be permitted to attend engineering courses.

**PROGRAM REQUIREMENTS**

In order to complete the first two years of a four-year program leading to the degree of Bachelor of Science in Electrical Engineering at UAF, students must complete the following courses:

- **CHEM A105** General Chemistry I 3
- **CHEM A105L** General Chemistry I Lab 1
- **CHEM A106** General Chemistry II 3
- **CHEM A106L** General Chemistry II Lab 1
- **COMM A111** Fund. of Oral Communication (3) or
- **COMM A235** Small Group Communication (3) or
- **COMM A237** Interpersonal Communication (3) or
- **COMM A241** Public Speaking (3)
- **EE A102** Introduction to Electrical Engineering 3
- **EE A203** Fund. of Electrical Engineering I 4
- **EE A204** Fund. of Electrical Engineering II 4
- **ENGL A111** Methods of Written Communication 3
- **ENGL A211** Academic Writing About Literature (3) 3 or
- **ENGL A213** Writing in the Social and Natural Sci. (3)
- **ES A111** Engineering Science 3
- **ES A201** Computer Techniques 3
- **ES A209** Engineering Statics 3
- **ES A210** Engineering Dynamics 3
- **MATH A200** Calculus I 4
- **MATH A201** Calculus II 4
- **MATH A202** Calculus III 4
- **MATH A302** Ordinary Differential Equations 3
- **PHYS A211** General Physics I 3
- **PHYS A211L** General Physics I Lab 1
- **PHYS A212** General Physics II 3
- **PHYS A212L** General Physics II Lab 1
- Plus 6 credits of General Education Requirement courses in the areas of humanities, social sciences, and/or fine arts 6

*Note: The required courses do not include ES A103 (Engineering Graphics with AutoCAD). However, this course is considered to be valuable to students and they are encouraged to take the course if their schedules permit.*

**FACULTY**

- Grant Baker, Professor/Chair, AFGC@uaa.alaska.edu
- Jeff Miller, Assistant Professor, AFJAMS@uaa.alaska.edu
- Joe Mixsell, Associate Professor, AFJCM1@uaa.alaska.edu
- Jens Munk, Associate Professor, AFJMJ@uaa.alaska.edu

**ENGINEERING**

Engineering Building, (ENGR), Room 201, (907) 786-1900
www.engr.uaa.alaska.edu/programs/bse

**BACHELOR OF SCIENCE, ENGINEERING**

The Bachelor of Science in Engineering (BSE) program is a design oriented curriculum that incorporates topics that span the foundations of engineering disciplines. BSE students select courses for a specialization track that best suits their needs. Thus, the BSE curriculum can custom fit a student’s education with the needs of the community and industry. The three tracks of specialization are Computer Systems Engineering, Electrical Engineering, or Mechanical Engineering.
Students with either pre-major or major status are considered enrolled accepted into the BSE program with Engineering pre-major status. If an applicant to the School of Engineering BSE program does not satisfy one or more of the above requirements, the student may be approved by the advisor and department head. If an applicant to the School of Engineering BSE program does not satisfy one or more of the above requirements, the student may be approved by the advisor and department head.

**PROGRAM OBJECTIVES AND OUTCOMES**

Objectives for BSE graduates include: 1) application of engineering design and analysis principles; 2) incorporation of non-technical constraints and opportunities (e.g., aesthetic, social, ethical, etc.) in their analyses and designs; 3) undertaking of entry level positions in industry; 4) undertaking of advanced studies in a graduate emphasis program; 5) understanding the interdisciplinary nature of engineering works as it relates to energy, materials, and environment; 6) application of technical and lifelong learning skills to effectively address present and future infrastructure needs of society; and 7) abiding by the ethical responsibilities of engineers.

Outcomes for BSE graduates include the ability to: 1) apply knowledge of mathematics through differential equations, proportionality and statistics, calculus based physics, and general chemistry; 2) design and conduct experiments; 3) analyze and interpret data; 4) design a system, component, or process to meet desired needs; 5) function on multidisciplinary teams; 6) identify, formulate, and solve engineering problems; 7) understand professional and ethical responsibility; 8) communicate effectively; 9) understand the impact of engineering solutions in a global and societal context; 10) recognize the need for, and an ability, to engage in lifelong learning; 11) acknowledge contemporary issues in professional practice; and 12) apply the techniques, skills, and modern engineering tools necessary for engineering practice.

**ADMISSION REQUIREMENTS**

Complete the Baccalaureate Degree Programs Admission Requirements described in Chapter 7. In addition, in order to be approved for Engineering major status, students entering the undergraduate engineering program should have completed the following high school courses with grades of C or better:

- Algebra: 2 years
- English: 3 years
- Chemistry: 1 year
- Physics: 1 year
- Trigonometry: 1/2 year

If an applicant to the School of Engineering BSE program does not satisfy one or more of the above requirements, the student may be accepted into the BSE program with Engineering pre-major status. Students with either pre-major or major status are considered enrolled in the BSE program.

**ADVANCEMENT FROM PRE-MAJOR TO MAJOR STATUS**

Pre-major BSE students must work with their assigned advisor to develop a course plan to make up the high school course requirements for advancement to major status in the BSE program. Once the coursework outlined in the student’s course plan for advancement is completed, the student must meet with their advisor to apply for advancement to major status. Advancement to major status is subject to approval by the advisor and department head.

**CURRICULUM**

The total required credits for the BSE degree is 132 credits for Computer Systems or Electrical Engineering emphasis, and 131 credits for the Mechanical Engineering emphasis. There are four main categories of required credits.

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum 76</td>
<td>40 or 41</td>
</tr>
<tr>
<td>Engineering Emphasis Track Courses</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Math Elective</td>
<td>12</td>
</tr>
<tr>
<td>Total Credits</td>
<td>131 or 132</td>
</tr>
</tbody>
</table>

During the first two years (freshman and sophomore) of the BSE degree program, the student completes a set of core courses of 76 credits (61 Major credits and 15 General Education Requirements). These courses cover basic sciences, mathematics, writing and communications (speech), and other general education requirement (GER) courses. This provides the student with a broad and solid background in the topics necessary to build a specialization in a field of engineering.

The engineering emphasis track courses are taken mostly in the third and fourth (junior and senior) years. Each track has a series of required courses totaling either 40 credits (Mechanical Engineering track) or 41 credits (Computer Systems and Electrical Engineering). In addition, the student selects an additional 12 credits of advanced engineering or science electives, and a 3 credit advanced mathematics elective.

Engineering design is introduced early in the curriculum and is emphasized throughout the program. In addition to the seminar series, a three course introductory Engineering Practices series is a required part of the curriculum. It is an outstanding customized coordination of courses that specifically teaches engineering students what they most need to know early in the curriculum. These courses help students become more successful in all of their subsequent courses and to be more effective as practicing engineers. Topics include applied mathematics, computer applications, experimental data gathering and analysis, collaborative teamwork, and report preparation and presentation. Also, a senior capstone design course is required.

Since the BSE program allows for the selection of more electives than the traditional BS engineering programs, students can custom design their curriculum to specialize in the areas of engineering most applicable for their plans. So, students can prepare themselves to specifically meet the needs of specific companies, and state and federal agencies.

Professional registration is emphasized throughout the program. Students attend three professional seminar courses that expose them to multiple experts from education and industry speaking about their field of expertise. All students are encouraged to take the Fundamental of Engineering examination before graduation.

**ADVISING**

All undergraduate students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

**MATHEMATICS MINOR**

Upon completion of the BSE degree, the requirements for obtaining a minor in Mathematics are also satisfied with any of the three emphasis tracks. Students are encouraged to apply for the mathematics minor with the BSE degree when applying for graduation.
### Academic Progress

All prerequisites for engineering courses must be completed with a grade of C or higher. A student that has a cumulative semester GPA in engineering courses below 2.00 will be placed on academic warning by the School of Engineering. If a student on academic warning status receives a semester GPA for engineering courses of at least 2.00, that student will be removed from academic warning status by the School of Engineering. Otherwise, the student will be dropped from the BSE program and must reapply in order to continue in the BSE program. Re-admittance requires a letter from the student requesting re-admittance with an explanation of the reasons why that is subject to approval by the department head.

### Graduation Requirements

#### A. General University Requirements

Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

#### B. General Education Requirements

Complete the General Education Requirements (GER) for Baccalaureate Degrees listed at the beginning of this chapter. All GER requirements (a minimum of 37 total credits in 8 different categories) are built into the required courses for the BSE degree. There are 15 GER credits in three different categories that the student may select:

- Fine Arts 3
- Humanities 6
- Social Sciences 6

#### C. Major Requirements

1. Complete the following core courses (58 Credits):
   - CHEM A105 General Chemistry I 3
   - CHEM A105L General Chemistry I Lab 1
   - COMM A111 Fundamentals of Oral Communications 3
   - ENGL A111 Methods of Written Communication 3
   - ENGL A212 Technical Writing 3
   - ENGR A151 Engineering Practices I 3
   - ENGR A161 Engineering Practices II 3
   - ENGR A192 Engineering Seminar I 1
   - ENGR A251 Engineering Practices III 3
   - ENGR A292 Engineering Seminar II 1
   - ENGR A392 Engineering Seminar III 1
   - ES A208 Engineering Mechanics 4
   - ES A302 Engineering Data Analysis 3
   - ESM A450 Economic Analysis & Operations 3
   - MATH A200 Calculus I 4
   - MATH A201 Calculus II 4
   - MATH A202 Calculus III 4
   - MATH A302 Ordinary Differential Equations 3
   - PHYS A211 General Physics I 3
   - PHYS A211L General Physics I Lab 1
   - PHYS A212 General Physics II 3
   - PHYS A212L General Physics II Lab 1

2. Choose one of the following specializations:

#### Computer Systems Engineering (44 credits)

Complete the following required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS A201</td>
<td>Programming Concepts I</td>
<td>3</td>
</tr>
<tr>
<td>CS A202</td>
<td>Programming Concepts II</td>
<td>3</td>
</tr>
<tr>
<td>CS A221</td>
<td>Computer Organization &amp; Assembly Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS A320</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS A330</td>
<td>Algorithms and Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSE A348</td>
<td>Design of Computer Engineering Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSE A445</td>
<td>Computer Design &amp; Interfacing</td>
<td>4S</td>
</tr>
<tr>
<td>EE A203</td>
<td>Fundamentals of Electrical Engineering I</td>
<td>4</td>
</tr>
<tr>
<td>EE A204</td>
<td>Fundamentals of Electrical Engineering II</td>
<td>4</td>
</tr>
<tr>
<td>CS/EE A241</td>
<td>Computer Hardware Concepts</td>
<td>4</td>
</tr>
<tr>
<td>EE A314</td>
<td>Electromagnetics</td>
<td>3</td>
</tr>
<tr>
<td>EE A314L</td>
<td>Electromagnetics Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>EE A351</td>
<td>Signals &amp; Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE A465</td>
<td>Telecommunications</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Electrical Engineering (44 credits)

Complete the following required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS A201</td>
<td>Programming Concepts I</td>
<td>3</td>
</tr>
<tr>
<td>CS A202</td>
<td>Programming Concepts II</td>
<td>3</td>
</tr>
<tr>
<td>CS A221</td>
<td>Computer Organization &amp; Assembly Programming</td>
<td>3</td>
</tr>
<tr>
<td>EE A203</td>
<td>Fundamentals of Electrical Engineering I</td>
<td>4</td>
</tr>
<tr>
<td>EE A204</td>
<td>Fundamentals of Electrical Engineering II</td>
<td>4</td>
</tr>
<tr>
<td>CS/EE A241</td>
<td>Computer Hardware Concepts</td>
<td>4</td>
</tr>
<tr>
<td>EE/PHYS A314</td>
<td>Electromagnetics</td>
<td>3</td>
</tr>
<tr>
<td>EE/PHYS A314L</td>
<td>Electromagnetics Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>EE/PHYS A324</td>
<td>Electromagnetics</td>
<td>3</td>
</tr>
<tr>
<td>EE/PHYS A324L</td>
<td>Electromagnetics Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>EE A351</td>
<td>Signals &amp; Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE A353</td>
<td>Circuit Theory</td>
<td>3</td>
</tr>
<tr>
<td>EE A438</td>
<td>Design of Electrical Engineering Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE A441</td>
<td>Integrated Circuit Design</td>
<td>3</td>
</tr>
<tr>
<td>EE A465</td>
<td>Telecommunications</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Mechanical Engineering (43 credits)

Complete the following required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM A106</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A106L</td>
<td>General Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ES A309</td>
<td>Elements of Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ES A331</td>
<td>Mechanics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>ES A341</td>
<td>Fluid Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>ES A346</td>
<td>Basic Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME A302</td>
<td>Mechanical Design I</td>
<td>3</td>
</tr>
<tr>
<td>EE/ME A308</td>
<td>Instrumentation and Measurement</td>
<td>3</td>
</tr>
<tr>
<td>ME A313</td>
<td>Mechanical Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME A334</td>
<td>Elements of Material Science</td>
<td>3</td>
</tr>
<tr>
<td>ME A403</td>
<td>Mechanical Design II</td>
<td>3</td>
</tr>
<tr>
<td>ME A414</td>
<td>Thermal System Design</td>
<td>3</td>
</tr>
<tr>
<td>ME A438</td>
<td>Design of Mechanical Engineering Systems</td>
<td>3</td>
</tr>
<tr>
<td>ME A441</td>
<td>Heat &amp; Mass Transfer</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Advanced Electives

BSE students are required to take 12 credits of advanced engineering/science electives from an approved list of electives for the particular emphasis area. Also, a 3 credit advanced mathematics elective is required that is selected from a single list common for all emphasis areas. Many elective courses require prerequisite courses that are also elective courses. Thus, in selecting elective courses students are strongly advised to work with their advisor to develop a cohesive set of elective courses. Choice of engineering electives is subject to approval by the student's advisor and the department head.

#### Advanced Mathematics Electives (3 credits)

BSE students are required to take one course from the following list of advanced mathematical elective courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH A314</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH A321</td>
<td>Analysis of Several Variables</td>
<td>3</td>
</tr>
<tr>
<td>MATH A324</td>
<td>Advanced Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH A371</td>
<td>Stochastic Processes</td>
<td>3</td>
</tr>
<tr>
<td>MATH A407</td>
<td>Mathematical Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH A410</td>
<td>Introduction to Complex Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH A422</td>
<td>Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH A426</td>
<td>Numerical Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Advanced Engineering & Science Electives (12 credits)

BSE students are required to take 12 credits from one of the following lists of approved advanced engineering and science elective courses.

**A. Computer Systems Engineering Emphasis Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS A304</td>
<td>Object-Oriented Analysis &amp; Modeling</td>
<td>3</td>
</tr>
<tr>
<td>CS A331</td>
<td>Programming Language Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CS A342</td>
<td>Networks</td>
<td>3</td>
</tr>
<tr>
<td>CS A351</td>
<td>Automata, Algorithms and Complexity</td>
<td>3</td>
</tr>
</tbody>
</table>
A total of 131 (Mechanical) or 132 credits (Computer

B. ELECTRICAL ENGINEERING EMPHASIS ELECTIVES

C. MECHANICAL ENGINEERING EMPHASIS ELECTIVES

4. A total of 131 (Mechanical) or 132 credits (Computer Systems or Electrical) is required for the degree, of which 42 credits must be upper division.

ACCREDITATION

All necessary steps will be taken for successful accreditation by the Engineering Accreditation Commission of ABET, Inc.

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Joe Mixsell, Associate Professor, afjm1@uaa.alaska.edu
Jens Munk, Associate Professor, afjm@uaa.alaska.edu
Anthony Paris, Assistant Professor, AFAPJ@uaa.alaska.edu
The Department of Geomatics accommodates a wide variety of student objectives from entry level to professional preparation and encourages the nontraditional student to return for training in current practices and principles.

Students seeking professional licensing as registered land surveyors and those who are interested in specializing in surveying or geographic information systems (GIS) should enroll in the Bachelor of Science degree program. For the most effective planning, bachelor’s degree candidates should declare their intent by the second semester of their Geomatics studies.

Accreditation
The Bachelor of Science degree program in Geomatics at UAA is accredited by the Applied Science Committee (ASAC) of ABET, Inc.

Advising
All undergraduate students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

Students are encouraged to consult the faculty in the Department of Geomatics for assistance in designing their course of study to ensure that all prerequisites have been met and that university and major degree requirements are understood and followed.

Prerequisites
All prerequisites for Geomatics courses must be completed with a grade of C or higher.

Preparation
The University offers courses to help students without this preparation to meet the skill level required in the Geomatics program. Insufficient preparation will increase the number of semesters required to complete either degree.

Students seeking the Certificate in Geographic Information Systems, the Associate of Applied Science or Bachelor of Science degree in Geomatics should prepare for entrance into the program by completing the following high school courses:

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>Algebra II</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Trigonometry</td>
</tr>
<tr>
<td>Science</td>
<td>Physics</td>
</tr>
<tr>
<td>English Composition</td>
<td>Skill level as demonstrated by ACT, SAT or approved placement test to qualify for enrollment in ENGL A111</td>
</tr>
</tbody>
</table>

Undergraduate Certificate, Geographic Information Systems

Admission Requirements
Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, Academic Standards and Regulations.

Course Requirements
Certain courses require prerequisites or faculty permission. Contact (907) 786-1972 for further information.

Major Requirements
In order to receive a Certificate in GIS, students must achieve a grade of C or higher in all courses applied to the certificate.

1. Complete the following required courses:
   - GEO A137 Principles of Mapping 3
   - GEO A167 Remote Sensing and Image Analysis 4
   - GIS A268 Elements of Geographic Information Systems (GIS) 4
   - GIS A366 Spatial Information Analysis and Modeling 3
   - GIS A367 GIS and Remote Sensing 3
   - GIS A458 Design and Management of Spatial Data 3
   - GIS A460 GIS Senior Project 3

2. Complete 9 credits from the following elective courses:
   - GEO A490 Selected Advanced Topics in Geomatics (3)
   - GIS A295 Internship in Geographic Information Systems I (3) or GIS A495 Internship in Geographic Information Systems II (3)
   - GIS A369 Land Information Systems (3)
   - GIS A370 GIS and Remote Sensing for Natural Resources (3)
   - GIS A375 GIS and Public Health (3)
   - GIS A433 GIS and the Marine Environment (3)
   - GIS A468 Integration of Geomatic Technologies (3)
   - GIS A470 GIS for Facility Management and Transportation Systems (3)
   - GIS A490 Selected Advanced Topics in GIS (3)

3. A maximum of 3 credits of Internship (GIS A295 or GIS A495) and 3 credits of Advanced Topics in Geomatics (GEO A490) or Advanced Topics in GIS (GIS A490) can be counted toward the Certificate in GIS. Faculty approval of the GEO A490 or GIS A490 topic is necessary for application of the course to the Certificate program.

4. A total of 32 credits is required for the Certificate in GIS.

Associate of Applied Science, Geomatics

Admission Requirements
Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, Academic Standards and Regulations.

General University Requirements
Complete the Associate of Applied Science General Degree Requirements located at the beginning of this chapter. Some of the major requirements will also fulfill Associate of Applied Science degree general requirements. Students should coordinate choices carefully with their academic advisor in the Department of Geomatics.

Academic Progress
Students must complete all major requirement courses with a grade of C or higher. A student who is unable to earn a satisfactory grade in the major requirement courses during their initial enrollment may attempt to earn a satisfactory grade one additional time, on a space available basis. Failure to earn a grade of C or better on the second attempt results in removal from the Geomatics program.

Major Requirements
1. Complete 4 credits in physics:
   - PHYS A123 Basic Physics I (3)
   - PHYS A123L Basic Physics I Laboratory (1) or
   - PHYS A211 General Physics I (3)
   - PHYS A211L General Physics I Laboratory (1)

2. Complete the following required courses:
   - ENGL A212 Technical Writing 3
   - ES A201 Computer Techniques 3
   - MATH A200 Calculus I 4

3. A maximum of 3 credits of Internship (GIS A295 or GIS A495) and 3 credits of Advanced Topics in Geomatics (GEO A490) or Advanced Topics in GIS (GIS A490) can be counted toward the Certificate in GIS. Faculty approval of the GEO A490 or GIS A490 topic is necessary for application of the course to the Certificate program.

4. A total of 32 credits is required for the Certificate in GIS.
GEO A137 Principles of Mapping 3
GEO A146 Surveying Computations 3
GEO A155 Fundamentals of Surveying 3
GEO A157 Analytical and Digital Cartography 3
GEO A166 Advanced Surveying 4
GEO A167 Remote Sensing and Image Analysis 4
GEO A248 Digital Terrain Cartography 3
GEO A256 Municipal and Civil Geomatics 4
GEO A257 Elements of Photogrammetry 3
GEO A267 Boundary Law I 4
GEO A268 Elements of Geographic Information Systems (GIS) 4
GEO A157 Analytical and Digital Cartography 3
GEO A166 Advanced Surveying 4
GEO A167 Remote Sensing and Image Analysis 4
GEO A248 Digital Terrain Cartography 3
GEO A256 Municipal and Civil Geomatics 4
GEO A257 Elements of Photogrammetry 3
GEO A267 Boundary Law I 4
GEO A268 Elements of Geographic Information Systems (GIS) 4
GEO A268 Elements of Geographic Information Systems (GIS) 4
GEO A366 Spatial Information Analysis and Modeling 3

3. Electives to total of 60 credits.

BACHELOR OF SCIENCE, GEOMATICS

ADMISSION REQUIREMENTS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations.

GRADUATION REQUIREMENTS

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for All Baccalaureate Degrees at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees at the beginning of this chapter.

ACADEMIC PROGRESS

Students must complete all courses under major requirements with a grade of C or higher. A student who is unable to earn a satisfactory grade in the major requirement courses during their initial enrollment may attempt to earn a satisfactory grade one additional time, on a space available basis.

Failure to earn a grade of C or better on the second attempt results in removal from the Geomatics program.

C. MAJOR REQUIREMENTS

1. Complete 8 credits in physics from one of the following sequences: 8
   PHYS A123 Basic Physics I (3)
   PHYS A123L Basic Physics I Laboratory (1)
   PHYS A124 Basic Physics II (3)
   PHYS A124L Basic Physics II Laboratory (1)
   PHYS A211 General Physics I (3)
   PHYS A211L General Physics I Laboratory (1)
   PHYS A212 General Physics II (3)
   PHYS A212L General Physics II Laboratory (1)

   These credits must be in addition to the 7 Natural Sciences credits taken to complete the General Education Requirement.

2. Complete the following:
   ENGL A212 Technical Writing 3
   ES A201 Computer Techniques 3
   MATH A200 Calculus I 4
   MATH A201 Calculus II 4
   MATH A202 Calculus III 4

3. Complete one of the following: 3
   MATH A302 Ordinary Differential Equations (3)
   MATH A314 Linear Algebra (3)
   STAT A307 Probability (3)

4. Complete all of the following:
   GEO A137 Principles of Mapping 3
   GEO A146 Surveying Computations 3
   GEO A155 Fundamentals of Surveying 3
   GEO A157 Analytical and Digital Cartography 3
   GEO A166 Advanced Surveying 4
   GEO A167 Remote Sensing and Image Analysis 4
   GEO A248 Digital Terrain Cartography 3
   GEO A256 Municipal and Civil Geomatics 4
   GEO A257 Elements of Photogrammetry 3
   GEO A267 Boundary Law I 4
   GEO A355 Land Development and Design 3
   GEO A359 Geodesy and Map Projections 3
   GEO A365 Geomatic Adjustment and Analysis 4
   GEO A457 Boundary Law II 4
   GEO A460 Geomatics Design Project 3
   GEO A466 Geopositioning 4
   GIS A268 Elements of Geographic Information Systems (GIS) 4
   GIS A366 Spatial Information Analysis and Modeling 3

5. Complete at least 15 credits in one of the emphasis areas.

Surveying Emphasis
   a. Complete the following:
      GEO A358 Programming for Digital Cartography 3
      GEO A433 Hydrographic Surveying 3
   b. Complete 9 credits from the following: 9
      GEO A456 Geomatics and Civil Design (3)
      GEO A459 Geodetic Geomatics (3)
      GEO A467 Analytical and Digital Photogrammetry (3)
      GEO A490 Selected Advanced Topics in Geomatics (1-6)
      GIS A369 Land Information Systems (3)

Geographic Information Systems (GIS) Emphasis
   a. Complete the following:
      GIS A458 Design and Management of Spatial Data 3
   b. Complete 12 credits from the following: 12
      GIS A367 GIS and Remote Sensing (3)
      GIS A369 Land Information Systems (3)
      GIS A370 GIS and Remote Sensing for Natural Resources (3)
      GIS A375 GIS and Public Health (3)
      GIS A433 GIS and the Marine Environment (3)
      GIS A468 Integration of Geomatic Technologies (3)
      GIS A470 GIS for Facility Management and Transportation Systems (3)
      GIS A490 Selected Advanced Topics in GIS (1-6)

6. A total of 131 credits is required for the degree of which 42 must be upper division.

FACULTY

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MECHANICAL ENGINEERING

Engineering Building (ENGR), Room 201, (907) 786-1900
www.engr.uaa.alaska.edu/

Mechanical engineers conceive, plan, design and direct the manufacturing, distribution and operation of a wide variety of devices, machines and systems for energy conversion, environmental control, materials processing, transportation, materials handling and other purposes. Mechanical engineers are engaged in creative design, applied research, development and management.

Because mechanical engineering is based on mathematics, chemistry, and physics, students are introduced to the basic principles in these areas during their first two years of study. They are also exposed to a
variety of introductory courses in engineering science and to courses in communication, the humanities, social sciences and/or fine arts.

**TWO-YEAR PROGRAM MECHANICAL ENGINEERING**

The School of Engineering offers a program of studies that allow the completion of the first two years of a four-year program leading to the Bachelor of Science degree in Mechanical Engineering. The program is coordinated with the University of Alaska Fairbanks (UAF) College of Science, Engineering and Mathematics. It allows students to transfer into the Mechanical Engineering program at UAF as third-year students with no loss of credit.

**ADMISSION REQUIREMENTS**

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, Academic Standards and Regulations. In addition, students entering the undergraduate engineering program must have completed the following high school courses with grades of C or better:

- **Algebra**: 2 years
- **English**: 3 years
- **Chemistry**: 1 year
- **Physics**: 1 year
- **Trigonometry**: 1/2 year

It is recommended that students graduating from high school without satisfactorily completing the courses noted above enroll in the necessary courses to make up deficiencies during the summer session.

Only those students admitted to the undergraduate engineering program may take courses offered by the School of Engineering at the 200 level or above. Students not admitted to the program may petition the School of Engineering to be admitted to individual courses.

**ADVISING**

All undergraduate students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

**ACADEMIC PROGRESS**

All prerequisites for engineering courses must be completed with a grade of C or higher.

A student who is unable to earn a satisfactory grade in an engineering course during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space-available basis.

A student who has a semester grade point average (GPA) in engineering courses below 2.00 will be placed on academic warning by the School of Engineering. If a student on academic warning status receives a semester GPA for engineering courses of at least 2.00, that student will be removed from academic warning status by the school. Otherwise, they will be disqualified from further study in the School of Engineering and will not be permitted to attend engineering courses.

**PROGRAM REQUIREMENTS**

In order to complete the first two years of a four-year program leading to the degree of Bachelor of Science in Mechanical Engineering at UAF, students must complete the following courses:

- **CHEM A105**: General Chemistry I 3
- **CHEM A105L**: General Chemistry I Lab 1
- **CHEM A106**: General Chemistry II 3
- **CHEM A106L**: General Chemistry II Lab 1
- **COMM A111**: Fundamentals Of Oral Communication (3) or
- **COMM A235**: Small Group Communication (3)
- **COMM A237**: Interpersonal Communication (3)
- **COMM A241**: Public Speaking (3)
- **ENGL A111**: Methods of Written Communication 3
- **ENGL A211**: Academic Writing About Literature (3) or
- **ENGL A213**: Writing in the Social and Natural Sciences (3)
- **ES A111**: Engineering Science 3
- **ES A201**: Computer Techniques 3
- **ES A209**: Engineering Statics 3
- **ES A210**: Engineering Dynamics 3
- **ES A331**: Mechanics of Materials 4
- **ES A346**: Basic Thermodynamics 3
- **MATH A200**: Calculus I 4
- **MATH A201**: Calculus II 4
- **MATH A202**: Calculus III 4
- **MATH A302**: Ordinary Differential Equations 3
- **PHYS A211**: General Physics I 3
- **PHYS A211L**: General Physics I Lab 1
- **PHYS A212**: General Physics II 3
- **PHYS A212L**: General Physics II Lab 1

Plus 9 credits of General Education Requirement courses in the areas of Humanities, Social Sciences and/or Fine Arts. 9

Note: The required courses do not include ES A103 (Engineering Graphics with AutoCAD). However, this course is considered to be valuable to student and they are encouraged to take the course if their schedules permit.

**FACULTY**

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**MINOR PROGRAMS IN THE SCHOOL OF ENGINEERING**

The School of Engineering offers minor programs to meet two sets of student needs. The first is a minor program in General Engineering which is for students that are majoring in a non-engineering baccalaureate degree. This program offers foundation coursework in core engineering topics.

The second is an Engineering Specialty minor program which is for students majoring in an engineering baccalaureate degree and, therefore, have completed much of the coursework in the Bachelor of Science in Engineering (BSE) or Civil Engineering (CE) program. Students within the engineering program may choose to pursue an Engineering Specialty minor in civil engineering, computer systems engineering, electrical engineering, or mechanical engineering.

Students enrolling in either minor program must satisfy all prerequisite requirements for the courses required for the chosen minor. Non-engineering majors, such as students in the sciences or mathematics, will likely be better positioned to meet the prerequisite requirements in the General Engineering minor program. Students majoring in engineering disciplines will likely be better positioned to meet the prerequisite requirements for courses in the Engineering Specialty minor programs.

**COURSE REQUIREMENTS FOR MINOR PROGRAMS**

A minor program of study must consist of a minimum of 18 credit hours. At least 6 credits must be upper division. Students must earn a cumulative GPA of at least 2.00 (C) in the minor. A minor may only be issued simultaneously with a baccalaureate degree. See Chapter 10 of the UAA Catalog for general information about minor degree requirements.

The course requirements for each of the engineering minor degrees are listed below. In cases where students have unique backgrounds or
interests, course selection may be adapted accordingly through consultation with the engineering faculty advisors.

A. PROGRAM
The following courses are required:

- ENGR A151  Engineering Practices I  3
- ENGR A161  Engineering Practices II  3
- ES A208  Engineering Mechanics  4

In addition, at least three courses must be selected from the following list:

- ES A309  Elements of Electrical Engineering (3)
- ES A331  Mechanics of Materials (3)
- ES A341  Fluids Mechanics (4)
- ES A346  Thermodynamics (3)
- ESM A450  Engineering Economics (3)
- ME/EE A308  Instrumentation & Measurement (3)
- ME A334  Elements of Material Science (3)

B. ENGINEERING SPECIALTY MINOR PROGRAMS

MINOR, CIVIL ENGINEERING
A minimum of 18 credits must be selected from:

- CE A334  Properties of Materials (3)
- CE A344  Water Resources Engineering (3)
- CE A402  Transportation Engineering (3)
- CE A422  Foundation Engineering (3)
- CE A425  Highway Engineering (3)
- CE A431  Structural Analysis (4)
- CE A432  Steel Design (3)
- CE A433  Reinforced Concrete Design (3)
- CE A434  Timber Design (3)
- CE A435  Soil Mechanics (3)
- CE A441  Introduction to Environmental Engineering (3)
- CE A442  Environmental Systems Design (3)

MINOR, COMPUTER SYSTEMS ENGINEERING
A minimum of 18 credits must be selected from:

- CS A320  Operating Systems (3)
- CS A342  Networks (3)
- CS A405  Artificial Intelligence (3)
- CS A413  Computer and Data Security (3)
- CSE A445  Computer Design and Interfacing (4)
- CSE A451  Digital Signal Processing (3)
- CSE A465  Network Security (3)

MINOR, ELECTRICAL ENGINEERING
A minimum of 18 credits must be selected from:

- CS/EE A241  Computer Hardware Concepts (4)
- EE A203  Fundamentals of Electrical Engineering I (4)
- EE A204  Fundamentals of Electrical Engineering II (4)
- EE/ME A308  Instrumentation & Measurement (3)
- EE A314  Electromagnetics (3)
- EE A314/L  Electromagnetics Laboratory I (1)
- EE A324  Electromagnetics II (3)
- EE A324/L  Electromagnetics Laboratory II (1)
- EE A353  Circuit Theory (3)
- EE A407  Power Distribution (3)
- EE A441  Integrated Circuit Design (3)
- EE A465  Telecommunications (3)
- EE/ME A471  Automatic Control (3)

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Note #1: MATH A200, MATH A201, MATH A202, MATH A302, PHYS A211, PHYS A212; CHEM A105, and CHEM A106 are required prerequisites for most of the minor programs listed. Students should plan and review the requirements for their specific minor program to determine exactly what prerequisites will be required.

Note #2: An “*” indicates a recommended set of courses for the minor.

Note #3: BSE or CE majors may pursue a BSE Engineering Specialty minor but may not pursue the BSE General Engineering minor.
UNIVERSITY HONORS COLLEGE

Academic Affairs, Edward & Cathryn Rasmuson Hall (RH), Room 119, (907) 786-1086
http://honors.uaa.alaska.edu

The mission of the University Honors College is to be a catalyst for scholarly excellence in undergraduate education. The College advances, coordinates, and administers active learning and undergraduate research opportunities for students across the campus. Through its multi-disciplinary academic and student support programs, the College serves as a locus for inquiry, discovery, leadership and engagement.

The college houses the Office of Undergraduate Research and Scholarship, and three university honors programs: the University Honors Core Program, the Natural and Complex Systems Program, and the Forty-Ninth State Fellows Program. Students enrolled in these programs are also enrolled in the disciplinary school or college in which they complete their degree programs. University Honors students may pursue any major or minor they wish at the university, and foundation University Honors courses will satisfy General Education Requirements in humanities and social science.

Students who complete the requirements of their disciplinary school or college, and program requirements of the University Honors College in good standing will graduate as Honors graduates. Students who complete these requirements with a GPA of 3.50 or above will earn the designation of University Honors Scholar on their transcripts and diplomas.

University Honors offers smaller classes with excellent faculty, guided individual and team-based research, personalized academic advising and mentoring, special leadership and internship opportunities, community involvement, and enhanced scholarship prospects. Honors courses will approach the course subject matter with more intensity and rigor than is demanded of typical courses. Students will also participate in a range of honors activities together, designed to enhance intellectual and personal opportunities. Intensive advising by college faculty and staff is an important element of University Honors, and Honors students are required to meet regularly with advisors.

ACADEMIC PROGRAMS

There are various options that students can select within the University Honors College: the Honors Core Program, the Natural and Complex Systems Program, and the Forty-Ninth State Fellows Program. The Honors Core Program requirements, taken by all Honors students, include courses in humanities, social science and community service. All Honors courses have an emphasis on critical thinking and analytical reading, taking on challenging activities through interdisciplinary projects, and preparing students for participating in independent research in their disciplines.

The Natural and Complex Systems (NCS) Program includes additional courses that focus on scientific, research-based projects that integrate student work across the Natural, Physical, Engineering, Mathematical, and Computer Sciences. This option is open to honors students in all disciplines but is targeted particularly toward students in science-oriented degrees. Honors students may take courses in the NCS Program if they meet the course prerequisites.

The Forty-Ninth State Fellows Program includes additional curriculum in democratic institutions and leadership. Focusing on politics, history, and Alaska, it consists of selected courses, weekly tutorials, and extracurricular activities. Spaces are limited in this intensive program and students typically apply prior to their freshman year to begin the program as they start their studies at UAA.

A limited number of students are admitted to the Honors Core Program, the Natural and Complex Systems Program, and the Forty-Ninth State Fellows Program each year. All baccalaureate degree-seeking students who are motivated to pursue honors level work are encouraged to apply.

In addition to the University Honors College, many departments at UAA offer departmental honors options. Students may complete both university and departmental honors requirements with dual designations upon graduation, and in some cases departmental honors courses may be substituted for one or more University Honors College requirements. In addition, students pursuing departmental honors and non-honors students may enroll in some University Honors College courses with permission of the University Honors College and on a space available basis.

ADMISSION TO THE UNIVERSITY HONORS COLLEGE

1. Admission to the University Honors College is limited to baccalaureate degree-seeking students. Admission is separate from and in addition to general UAA admission requirements.

2. Students must submit a completed University Honors College application, including supporting documents, to the College Office (RH 119). Supporting documents include (1) high school transcripts and SAT or ACT scores for incoming freshmen, (2) university transcripts and GPA for transfer students, (3) an essay on personal goals, and (4) a completed reference form from two previous teachers (either high school or college). Application packets may be obtained from the University Honors College office.

3. In general, students applying to the University Honors College from high school or transferring into the program with previous college-level work must have at least a 3.00 GPA, and show strong evidence of ability to reach and maintain a 3.50 GPA level at UAA within a reasonable time. However, the initial GPA entrance requirement should be interpreted as a general guideline, and not as an absolute criterion; all students who believe that they can succeed and benefit in an honors program are encouraged to apply.

4. Admission to the University Honors College will be determined by the Honors College Admission Committee. Admission is based on an overall evaluation of the student's probability of success in the college, and not on any single criterion or formula. The committee may ask the applicant for additional information and/or suggest an interview. Applicants will be ranked, and admitted on a space-available basis. In some cases the committee may initially grant conditional admission, which will be changed to formal admission if the student demonstrates ability to do honors work.

REQUIREMENTS TO GRADUATE AS A “UNIVERSITY HONORS SCHOLAR”

1. Students must meet all General University Requirements, General Education Requirements, School/College requirements, and major requirements as printed in the UAA catalog.

2. Students must complete the following University Honors Core Curriculum requirements (16 credits) with a grade of C or higher (* indicates courses that satisfy GER requirements):

   Honors Foundation Courses (Honors Core):
   
   HNRS A192* Honors Seminar: Enduring Books 3
   HNRS A292* Honors Seminar in Social Science 3
   HNRS A310 Community Service: Theory and Practice 3

   Honors Senior Project/Thesis Requirements (Honors Core):
   
   HNRS A392 Honors Thesis Seminar 1
   and one of the following options to total 6 credits
   
   A. HNRS A490* Senior Honors Seminar (3 credits over two semesters)
   or
   B. A course proposed by the student, and approved by the Honors College dean (3 credits minimum; may be an existing course or independent study) plus senior thesis or project (3 credits minimum; either departmental thesis/project, or HNRS A499 Honors Thesis)
   or
   C. An upper division course listed in the catalog as a specific departmental honors requirement (3 credits minimum)

   and
As part of the advising/mentoring process, Honors students’ progress will be evaluated every semester. Students whose performance indicates potential difficulties in meeting the Honors graduation requirements will be counseled on how to correct these difficulties, but if performance improvements do not result, the student may be removed from the college.

NATURAL AND COMPLEX SYSTEMS (NCS) PROGRAM

The Natural and Complex Systems Program focuses on scientific, research-based projects that integrate student work across the Natural, Physical, Engineering, Mathematical and Computer Sciences. Students admitted to the Natural and Complex Systems Program receive the designation “University Honors Scholar: Natural and Complex Systems” on their transcripts upon successful completion of the program requirements.

ADMISSION TO THE NATURAL AND COMPLEX SYSTEMS PROGRAM

The NCS program is open to students in all disciplines who have been admitted to the University Honors College. Honors students may take courses in the NCS Program if they meet the course prerequisites. Students wanting to enroll in this program should contact the University Honors College office for permission to register.

REQUIREMENTS TO GRADUATE AS A “UNIVERSITY HONORS SCHOLAR: NATURAL AND COMPLEX SYSTEMS”

1. Students must meet all General University Requirements, General Education Requirements, School/College requirements, and major requirements as printed in the UAA catalog.
2. Students must complete the following University Honors Core requirements and the Natural and Complex Systems Program requirements with a grade of C or higher (22 credits; * indicates courses that satisfy GER requirements):
   - Honors Foundation Courses (Honors Core)
     - HNRS A192* Honors Seminar: Enduring Books 3
     - HNRS A292* Honors Seminar in Social Science 3
     - HNRS A310 Community Service: Theory and Practice 3
   - NCS Program Courses
     - CPLX/ BIOL A200* Introduction to Complexity 3
     - HNRS A309 Interdisciplinary Team-Based Research Methods 3
   - Honors Senior Project/Thesis Requirements (Honors Core)
     - HNRS A392 Honors Thesis Seminar 1
     - HNRS A490* Senior Honors Seminar 6 (special section designated for NCS Program)
3. Students must have earned a cumulative grade point average of 3.50 or higher, as defined under Graduation with Honors in Chapter 7 of this catalog.
4. As part of the advising/mentoring process, Honors students’ progress will be evaluated every semester. Students whose performance indicates potential difficulties in meeting the Honors graduation requirements will be counseled on how to correct these difficulties, but if performance improvements do not result, the student may be removed from the college.

FORTY-NINTH STATE FELLOWS PROGRAM

The Forty-Ninth State Fellows Program offers a limited number of students the opportunity to participate in an intensive, intellectually challenging four-year undergraduate program to develop new Alaskan leaders. Forty-Ninth State Fellows study the roots of liberty in Western civilization, the founding and development of American political institutions, and the challenges of self-government in Alaska, to become knowledgeable about American and Alaskan history, politics, and cultural diversity, and familiar with the application of leadership skills and ideas.

In addition to their common curriculum, Forty-Ninth State Fellows enjoy many activities together, including opportunities for summer internships, membership in civic organizations, lectures and colloquia, weekly tutorials, and special events. Intensive advising by program faculty and staff is an important element of the program, and fellows are required to meet regularly with advisors.

Forty-Ninth State Fellows may pursue any major they wish at the university. They take selected courses together in economics, history, and political science, as well as the required courses for the University Honors Core. Many of these courses satisfy General Education Requirements (GER) at UAA and/or requirements for those pursuing degrees in the College of Arts and Sciences. Students admitted to study as Forty-Ninth State Fellows receive the designation “Forty-Ninth State University Honors Scholar” on their transcripts upon successful completion of the option requirements.

ADMISSION TO THE FORTY-NINTH STATE FELLOWS PROGRAM

1. Admission to the Forty-Ninth State Fellows Program is limited each year to a small group of baccalaureate degree-seeking students. At the time of application, students are considered for admission to both the University Honors College and the Forty-Ninth State Fellows Program. Students should meet the general criteria for admission to University Honors (Admission to University Honors College #3).
2. Students must submit a completed Forty-Ninth State Fellows Program application, including supporting documents, to the University Honors College office or website.
   - Application forms may be obtained from the University Honors College office or website.
   - Students may apply outside of high school who can speak to their skills and potential.
3. Admission to the Forty-Ninth State Fellows Program will be determined by the Forty-Ninth State Admission Committee. The Committee may ask the applicant for additional information and/or request an interview. Applicants will be ranked and admitted on a space-available basis.

REQUIREMENTS TO GRADUATE AS A “FORTY-NINTH STATE UNIVERSITY HONORS SCHOLAR”

1. Students must meet all General University Requirements, General Education Requirements, School/College requirements, and major requirements as printed in the UAA catalog.
2. Students also must complete all requirements to graduate in the Forty-Ninth State Fellows Program. For additional information, see University Honors College requirements and completion of an Honors Senior Thesis.
3. Students must complete the Forty-Ninth State Fellows curriculum requirements with a grade of C or higher.
First-year Forty-Ninth State Fellows Program

Requirements:

HIST A101† Western Civilization I 3
HIST A102† Western Civilization II 3
HNRS A191 Freshman Honors Tutorial (fall) 1
HNRS A191 Freshman Honors Tutorial (spring) 1

Second-year Forty-Ninth State Fellows Program

Requirements:

ECON A201† Principles of Macroeconomics 3
HIST A131† History of United States I 3
HIST A132† History of United States II 3
HNRS A291 Sophomore Honors Tutorial (fall) 1
HNRS A291 Sophomore Honors Tutorial (spring) 1
PS A330 The American Political Tradition 3

Third-year Forty-Ninth State Fellows Program

Requirements:

HIST A341† History of Alaska 3
HNRS A391 Junior Honors Tutorial 1
PS A332† History of Political Philosophy I: Classical 3
PS A333† History of Political Philosophy II: Modern 3

Fourth-year Forty-Ninth State Fellows Program

Requirements:

PS A345 Alaska Government and Politics 3

† Indicates courses that can satisfy GERs and/or CAS requirements.

Forty-Ninth State Fellows ordinarily take all of the Forty-Ninth State requirements together as a cohort. Since Honors tutorials are paired with designated course sections, and specific courses are required, fellows must secure advice and permission from the Forty-Ninth State advisors before registering for classes each term. In some cases, classes that meet General Education Requirements may be designated for Forty-Ninth State Fellows or for all University Honors students; these sections are highly recommended for Forty-Ninth State Fellows. In case of time conflicts between courses required for Forty-Ninth State Fellows and for other degree requirements, the program may allow Fellows to substitute sections or to take courses outside the usual sequence.

4. As part of the advising and mentoring process, Forty-Ninth State Fellows’ progress will be evaluated every semester. Fellows whose performance indicates potential difficulties in meeting the requirements for the Forty-Ninth State Fellows Program or for the University Honors College will be counseled on how to correct these difficulties, but if performance improvements do not result, fellows may be removed from the program.

FACULTY

University Honors draws its faculty from across the schools and colleges.

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Post-Baccalaureate Certificate Programs
POST-BACCALAUREATE CERTIFICATES STUDY

Post-baccalaureate certificate programs present a cohesive sequence of related courses designed to provide continuing education past the baccalaureate level. Upon completion of a certificate, students will have acquired an area of specialization or an interdisciplinary perspective, or will have completed requirements for professional certifications awarded by agencies outside the university. Post-baccalaureate certificates are designed with a majority of undergraduate course work.

ADMISSIONS
(907) 786-1480
www.uaa.alaska.edu/admissions

All students intending to register for one or more courses must apply for admission. Applications for admission are available online from the Office of Admissions.

ADMISSION REQUIREMENTS FOR POST-BACCALAUREATE CERTIFICATES

To qualify for admission to post-baccalaureate certificate programs, a student must have earned a baccalaureate degree from a regionally accredited institution in the United States or a foreign equivalent. Students who expect to receive their baccalaureate degrees within two semesters may also apply for admission; see Incomplete Admission later in this section. Applicants must meet the GPA requirements of the specific certificate program to which they are applying.

All certificate students must submit official transcripts showing completion and conferral of all baccalaureate degrees and any transcripts reflecting any courses relevant to the certificate sought. Transcripts are to be requested by the student and must be submitted in an officially sealed envelope. (Exception: Students do not need to request transcripts from any University of Alaska campus.) Some baccalaureate programs have additional or more selective admission requirements. See individual program requirements later in this chapter for details.

Applicants with transcripts from institutions outside the United States or Canada must submit official transcripts and English translations as well as an official statement of educational equivalency from a recommended international credentials evaluation service. A list of evaluation services may be obtained from the Office of Admissions. Fees depend upon the agency performing the evaluation. The evaluation service will require a separate transcript and copy of the English translation.

Applicants whose native language is not English or whose baccalaureate degree was conferred by an institution where English was not the language of instruction must also submit scores from the Test of English as a Foreign Language (TOEFL). TOEFL scores may be waived if the applicant has been a long-term resident of the United States or of another English-speaking country and demonstrates fluency in reading, writing, and speaking in English.

Applications, official transcripts, and required test scores (if any) must be submitted to the Office of Admissions. All of these materials become the property of UAA and are only released or copied for use within the University of Alaska system. Once all required transcripts and test scores have been received, the Office of Admissions will forward each student's admission packet to the dean, department chair, or designee for consideration.

Each certificate program has individual admission standards and document requirements. Additional information such as writing samples, goal statements, letters of recommendation, research proposals, and/or interviews may be required by specific programs. When required, these materials must be submitted directly to the department chair or designee.

Deadlines for submission of materials vary by program. No more than 9 credits may be completed in the student's certificate program before program admission. See individual program listings for information. Please note, for programs with rolling (ongoing) admissions, in order to ensure consideration for all financial aid opportunities, it is strongly recommended that eligible students submit:

- For spring admission, all required application forms no later than November 1, and all required application materials by December 1;
- For summer admission, all required application forms no later than May 1, and all required application materials by July 1;
- For fall admission, all required application forms no later than July 1, and all required application materials by August 1.

INTERNATIONAL POST-BACCALAUREATE CERTIFICATE STUDENTS

International Services
(907) 786-1558

International students who will attend UAA as F-1 visa students and who need a Form I-20 Certificate of Eligibility for Nonimmigrant F-1 Student status must meet university and degree program admission requirements. In addition to being admitted to a post-baccalaureate certificate program, international students must submit the following:

1. An official TOEFL (Test of English as a Foreign Language) score of at least 550 for the paper-based test or 213 for the computer-based test.
2. A statement of financial support for the anticipated period of study and evidence of availability of funds such as a bank statement.
3. An English translation of all required documents.
4. Students who earned their baccalaureate degree outside the United States or Canada must submit an official statement from a recommended international credentials evaluation service stating that their degree is the equivalent of a U.S. bachelor's degree. A list of evaluation services may be obtained from the Office of Admissions. Fees depend upon the agency performing the evaluation. The evaluation service will require a separate transcript and copy of the English translation.

International students in F-1 visa status must be formally admitted, full-time, degree-seeking students. Health insurance is also mandatory. Contact the International Student Advisor in the Office of Admissions for details.
APPLICATION AND ADMISSION STATUS FOR
POST-BACCALAUREATE CERTIFICATE-SEEKING
STUDENTS: TERMS AND DEFINITIONS

APPLICATION STATUS

Incomplete Application
An incomplete application is one that is not accompanied by all required documents; generally, an application is considered incomplete until all required official transcripts and test scores have been received.

Pending Application
A pending application has met university requirements and is awaiting departmental recommendation for admission.

Postponed Application
Students may postpone their applications to a future semester by notifying the Office of Admissions prior to the end of the semester for which they originally applied.

Withdrawn Before Admission
Students must complete or postpone their admission by the end of the semester for which they have applied. At the end of each semester, all applications still incomplete or not postponed will be withdrawn. Students whose applications have been withdrawn must reapply for admission if they later choose to attend UAA.

ADMISSION STATUS

Complete Admission
All required documents have been received and all admission standards met.

Incomplete Admission
Students who expect to receive their baccalaureate degree from a regionally accredited institution within two semesters (three if including summer) may apply for admission. Formal acceptance becomes final only after the baccalaureate degree is completed and conferred, and all other admission requirements are met.

Provisional Admission
University admission requirements have been met, but the students still need to complete one or more department-specified provisions.

Postponed Admission
Students may postpone their admission to a future semester by notifying the Office of Admissions prior to the end of the semester for which they originally applied.

Withdrawn After Admission
Admission will be withdrawn when students do not attend classes during or postpone their admission by the end of their admission semester. Students whose admissions have been withdrawn must apply for admission if they later choose to attend UAA.

RELATED POST-BACCALAUREATE
CERTIFICATE POLICIES

TRANSFER CREDITS
Up to one-third of the credits required for a post-baccalaureate certificate may be transferred into UAA and applied to that certificate from a regionally accredited institution if they were not previously used to obtain any other degree or certificate. Acceptance of transfer credits toward program requirements is at the discretion of the individual program.

CHANGE OF CERTIFICATE
Students who wish to change certificate programs must formally apply for admission to the new certificate program through the Office of Admissions and pay the appropriate fee. This applies both to changes between schools or colleges and to different certificates within the same school or college. Students will be expected to meet all admission and program requirements of the new major or emphasis area.

CONCURRENT CERTIFICATES
Students may pursue concurrent post-baccalaureate certificates as long as they have formally applied and been accepted to each program through the Office of Admissions.

ADDITIONAL CERTIFICATES
Students who have received a post-baccalaureate certificate from a regionally accredited college or university may earn another post-baccalaureate certificate by completing at least 16 resident credits not used for any other degree or certificate. The student must meet all Post-Baccalaureate Certificate University Requirements, School or College Requirements, and Program Requirements; fulfilling all University, College, and Program Requirements may require more than the minimum 16 additional resident credits. If the 16 additional credits and other requirements have been earned for each additional post-baccalaureate certificate, two or more post-baccalaureate certificates may be awarded simultaneously.

FORMAL ACCEPTANCE TO POST-
BACCALAUREATE CERTIFICATE PROGRAMS
Once all required admission documents have been received by the Office of Admissions, the student’s admission packet is forwarded to the dean or designee of the specific program. The acceptance decision is made by the dean or designee, who informs the Office of Admissions of the decision. The Office of Admissions sends the official Certificate of Admission directly to the applicant. Acceptance to a certificate program does not guarantee later admission to other certificate or degree programs.

NON-DEGREE-SEEKING STUDENTS
Non-degree-seeking students who wish to register for courses may be required to obtain the signature of the department chair or faculty member. Registration as a non-degree-seeking student implies no commitment by the university to the student’s later admission to a post-baccalaureate certificate program. Up to one-third of the credits of post-baccalaureate certificate course work may be completed in the student’s program before program admission. Non-degree-seeking students do not qualify for federal or state financial aid benefits nor do they qualify to receive a Form I-20 Certificate of Eligibility for Nonimmigrant (F-1) Student Status. (See Chapter 7, Academic Standards and Regulations, for further information.)
FULL-TIME/PART-TIME STATUS FOR POST-BACCALAUREATE CERTIFICATE-SEEKING STUDENTS

A student who has been admitted to a UAA post-baccalaureate certificate program and is enrolled at UAA for 12 or more credits is classified as full-time. Courses count toward full-time status only if they are applicable to the certificate program. A post-baccalaureate certificate student enrolled at UAA for fewer than 12 credits is classified as part-time.

Audited courses, continuing education units (CEUs), and continuous registration are not included in the computation of the student’s full-time or part-time status.

CATALOG YEAR FOR POST-BACCALAUREATE CERTIFICATE PROGRAMS

Students may elect to graduate under the requirements of the catalog in effect at the time of formal acceptance to a post-baccalaureate certificate program, or the catalog in effect at the time of graduation.

If the requirements for a post-baccalaureate certificate program as specified in the entry-level catalog are not met within seven years of formal acceptance into the program, admission expires and the student must reapply for admission and meet the current admission and graduation requirements in effect at the time of readmission or graduation.

All credits counted toward the degree, including transfer credit, must be earned within the consecutive seven-year period prior to graduation.

GOOD STANDING FOR POST-BACCALAUREATE CERTIFICATE-SEEKING STUDENTS

Post-baccalaureate certificate-seeking students who maintain a 2.50 (C) cumulative GPA in courses on their official Certificate Studies Plan are considered in good standing.

REMOVAL FROM POST-BACCALAUREATE CERTIFICATE-SEEKING STATUS

A student’s academic status may be changed to non-degree-seeking if the requirements to remove provisional admission or if minimum academic standards are not met.

A student who fails to maintain good standing in courses applicable to his/her certificate program, for reasons specified in writing, is not making satisfactory progress toward completing the program requirements and may be removed from certificate-seeking status. Each school or college has procedures to deal with appeals arising from removal from certificate-seeking status.

ACADEMIC APPEALS

Students have the right to appeal academic actions (See Academic Dispute Resolution Procedures in the UAA Fact Finder/Student Handbook for information).

REINSTATEMENT TO POST-BACCALAUREATE CERTIFICATE-SEEKING STATUS

Students who have been removed from post-baccalaureate certificate-seeking status for not making satisfactory progress must reapply for a post-baccalaureate certificate program and pay the appropriate fee.

POST-BACCALAUREATE CERTIFICATE PROGRAMS

CERTIFICATE-SEEKING STATUS

A student seeking status for not making satisfactory progress must reapply for a post-baccalaureate certificate program and pay the appropriate fee.

Students who have been removed from post-baccalaureate certificate-seeking status for not making satisfactory progress toward completing the program requirements which, upon satisfactory completion, entitle the student to receive the post-baccalaureate certificate. The program plan is based upon the catalog requirements for the certificate program to which the student is accepted. The plan becomes official once it is approved by the Dean or designee and is filed with the Office of the Registrar.

The official Certificate Studies Plan formally establishes the specific program requirements which, upon satisfactory completion, entitle the student to receive the post-baccalaureate certificate. The program plan is based upon the catalog requirements for the certificate program to which the student is accepted. The plan becomes official once it is approved by the Dean or designee and is filed with the Office of the Registrar.

Students are expected to complete all requirements listed on their official Certificate Studies Plan, as well as all post-baccalaureate certificate university requirements. Any revision to the plan must be submitted to the Office of the Registrar through the certificate advisor/committee.

DETERMINING PROGRAM REQUIREMENTS

A post-baccalaureate certificate student’s program is based upon the catalog requirements for the relevant certificate program which are in effect at the time the student was accepted to the program.

POST-BACCALAUREATE CERTIFICATE UNIVERSITY REQUIREMENTS

University requirements for all post-baccalaureate certificates are as follows:

1. The student must complete at least 24 approved semester credits not counted toward any awarded degree.
2. The student must complete all requirements established by the program.
3. A GPA of at least 2.50 (C) must be earned in courses identified in the official Certificate Studies Plan.
4. Courses at the 500-level are for professional development and are not applicable toward any certificate, even by petition.
5. At all course levels, a grade of C is minimally acceptable.
6. At least two-thirds of the credits required for the certificate must be taken at the upper division (300-400) or graduate (600) level.

RESPONSIBILITIES OF THE POST-BACCALAUREATE CERTIFICATE ADVISOR/COMMITTEE

The division of responsibility between the advisor and/or committee is determined at the program level. The graduate advisor and/or committee will do the following:

1. Review the student’s Certificate Studies Plan, ensuring that it includes: the post-baccalaureate certificate university requirements; all courses required for the certificate; and any special program requirements.
2. Identify deficiencies in the student’s admission or academic background and assist student in developing remedies.
3. Approve the official Certificate Studies Plan.
4. Monitor the student’s progress and timely completion of all requirements.
5. Monitor the timely submission of the official Certificate Studies Plan and other documents to the Office of the Registrar.
6. Review and approve any changes to the official Certificate Studies Plan, directing timely submission of the revised plan to the Office of the Registrar.
7. Review and approve any required capstone experience or project according to procedures established by the individual program.
8. Administer and assess a comprehensive examination, if required.

OFFICIAL STUDIES PLAN FOR POST-BACCALAUREATE CERTIFICATES

The official Certificate Studies Plan formally establishes the specific program requirements which, upon satisfactory completion, entitle the student to receive the post-baccalaureate certificate. The program plan is based upon the catalog requirements for the certificate program to which the student is accepted. The plan becomes official once it is approved by the Dean or designee and is filed with the Office of the Registrar.

Students are expected to complete all requirements listed on their official Certificate Studies Plan, as well as all post-baccalaureate certificate university requirements. Any revision to the plan must be submitted to the Office of the Registrar through the certificate advisor/committee.

DURATION OF PROGRAM REQUIREMENTS

A post-baccalaureate certificate student’s program is based upon the catalog requirements for the relevant certificate program which are in effect at the time the student was accepted to the program.

POST-BACCALAUREATE CERTIFICATE UNIVERSITY REQUIREMENTS

University requirements for all post-baccalaureate certificates are as follows:

1. The student must complete at least 24 approved semester credits not counted toward any awarded degree.
2. The student must complete all requirements established by the program.
3. A GPA of at least 2.50 (C) must be earned in courses identified in the official Certificate Studies Plan.
4. Courses at the 500-level are for professional development and are not applicable toward any certificate, even by petition.
5. At all course levels, a grade of C is minimally acceptable.
6. At least two-thirds of the credits required for the certificate must be taken at the upper division (300-400) or graduate (600) level.
7. Up to one-third of the semester credits not used toward any other degree or certificate may be transferred to UAA from a regionally accredited institution and counted toward a post-baccalaureate certificate. Quarter credits are converted to semester credits by multiplying quarter credits by two-thirds. Acceptance of transfer credit toward program requirements is at the discretion of the individual program.

8. Individual program deans or designees may allow credit earned at other universities in the UA system, excluding credit used toward another degree or certificate, to be transferred to UAA, as long as at least 9 credits applicable to the student’s certificate program are earned at UAA after acceptance into the program.

9. Courses taken through credit by examination, or graded credit/no credit (CR/NC) do not count toward certificate requirements. They may, however, be used to satisfy prerequisites or to establish competency in a subject, thus allowing the advisor or committee to waive certain courses in an established program, as long as the total credits in the certificate program remain the same.

10. If the requirements for a post-baccalaureate certificate as specified in the entry-level catalog are not met within seven years of formal acceptance into the program, admission expires and the student must reapply for admission and meet the admission and graduation requirements in effect at the time of readmission or graduation.

11. All credits counted toward the post-baccalaureate certificate, including transfer credits, must be earned within the consecutive seven-year period prior to graduation.

APPLICATION FOR GRADUATION
Post-baccalaureate certificate students must submit an Application for Graduation, signed by the academic advisor and accompanied by the required fee, to the Office of the Registrar. Application for Graduation deadlines are March 1 for summer graduation, May 1 for fall graduation, and September 15 for spring graduation. Applications received after the deadline will be processed for the following semester. Students who apply for graduation but do not complete degree requirements by the end of the semester must re-apply for graduation. The application fee must be paid with each Application for Graduation.
All students who desire a degree, certification or endorsement must apply for admission to the University of Alaska Anchorage and to the College of Education. Students are formally admitted to an appropriate program on the basis of multiple criteria, including their ability to make a positive contribution to educational professions. Candidates who seek Alaska State licensure must successfully complete the College of Education’s “approved program,” as well as any additional requirements that may be initiated by the Alaska Department of Education and Early Development. Only courses with a grade of C or higher will be applied to meet certification or endorsement requirements. Some programs require a minimum grade of B. In addition, candidates must demonstrate professional behaviors and dispositions consistent with the College of Education’s Conceptual Framework as well as abide by the UAA Student Code of Conduct and the Code of Ethics and Professional Teaching Standards adopted by the Alaska Professional Teaching Practices Commission. These documents are available on the College of Education website.

Cooperating School/Agency
Practica, internships, and other field placements are made only in cooperation with participating school districts and agencies. The school districts and agencies that work with the College of Education reserve the right to request additional information and/or preparation from candidates, in accordance with their established policies/practices. Cooperating districts and agencies also determine the number of available spaces and placements for candidates. Placements may become competitive if the number of applicants exceeds the number of spaces. Districts and agencies also reserve the right to refuse or terminate placements when candidates do not meet an acceptable standard of performance. Thus, while the university makes every effort to find appropriate field placements for candidates, admittance to a degree/certificate/endorsement program does not guarantee acceptance by cooperating school districts or agencies. Unacceptable academic performance, an unprofessional attitude, unsatisfactory field reports, violation of professional ethics, or other factors may result in removal from the field placement.

Transfer
Candidates who have taken all or part of an approved program at another university must take at least 9 credits of approved education courses at the University of Alaska prior to being admitted to an advanced practicum or internship.

Quality professional learning enriches the knowledge and skills of educators and improves the educational experiences of all students. Therefore, the Office of Professional and Continuing Education (PACE) with UAA academic units, schools, professional societies, and other organizations to support learning opportunities such as 500-level courses and academies. The flexible structure of PACE allows for rapid response to the dynamic learning needs of educators and related-services professionals around the state.

Early Childhood

Professional Studies Building (PSB), Room 220, (907) 786-4481
http://coe.uaa.alaska.edu/earlychildhood

Post-Baccalaureate Certificate, Early Childhood Pre-K-Third Grade (with Teacher Certification)
Those students who already have a baccalaureate degree may obtain an Early Childhood Pre-K - 3rd Grade Post-Baccalaureate Certificate by completing the following requirements.

Program Descriptions and Outcomes
The Post-Baccalaureate Certificate in Early Childhood Pre-K-Third Grade prepares professionals who already have baccalaureate degrees to work with young children from birth through eight years in preschool primary school settings. Successful completion of program requirements leads to...
an institutional recommendations for initial teacher certification with an endorsement in Pre-K-3rd Grade. Courses at the 400-level and above applied to the certificate may also be applied to MEd programs with advisor approval.

Students who complete the post-baccalaureate certificate will demonstrate advanced integrated knowledge and skills in preparation for careers in teaching primary grades (K-3) as well as in preschool educational programs.

Student outcomes for the program are based on the Standards for Alaska’s Teachers located at: www.edc.state.ak.us/standards. Outcomes are also based on the professional preparation standards of the National Association for the Education of Young Children (NAEYC) found at http://www.naeyc.org/teachers/. Outcomes for the post-baccalaureate program include the following:

1. Create a healthy, respectful, supportive, and challenging learning environment based on knowledge of child development.
2. Create respectful, reciprocal relationships that support and empower families, and involve all families in their children’s development and learning.
3. Use systematic observations, documentation, and other effective assessment strategies in a responsible way; in partnership with families and other professionals, to positively influence children’s development and learning.
4. Design effective approaches to teaching and learning, implement and evaluate experiences that promote positive development and learning for all children.
5. Incorporate knowledge of content areas to create appropriate experiences for young children.
6. Use ethical guidelines and other professional standards related to early childhood practice.
7. Demonstrate knowledgeable, reflective, and critical perspectives on professional practice, making informed decisions that integrate knowledge from a variety of sources.

ADMISSION REQUIREMENTS

ADMISSION TO THE UNIVERSITY OF ALASKA ANCHORAGE: EARLY CHILDHOOD PRE-K-3RD GRADE POST-BACCALAUREATE CERTIFICATE

See information on post-baccalaureate certificate programs at the beginning of this chapter. Complete the UAA Undergraduate Application for Admission, available on the UAA website at: www.uaa.alaska.edu/admissions.

ADMISSION TO THE DEPARTMENT OF TEACHING AND LEARNING, COLLEGE OF EDUCATION: EARLY CHILDHOOD PRE-K-3RD GRADE POST-BACCALAUREATE CERTIFICATE

In order to be admitted to the College of Education as an Early Childhood Pre-K-3rd Grade Post-Baccalaureate Certificate Program candidate, applicants must meet the following requirements:

1. Complete a Department of Teaching and Learning application for admission to the Early Childhood Pre-K-3rd Grade Post-Baccalaureate Certificate Program by one of the following dates: March 1, August 1, or November 1. (Please be aware that the admission deadlines for UAA may vary from those of the Department of Teaching and Learning. For financial aid purposes, applicants must adhere to the deadlines established for the UAA Undergraduate Application for Admission.)
2. Have a cumulative grade point average of 2.75 for the baccalaureate degree.
3. Successfully complete the Praxis I and the Praxis II examinations. Contact the College of Education for current passing scores.

Note: Qualified applicants are accepted on a space-available basis. Admission to the Department of Teaching and Learning does not guarantee admission to the internship.

ADMISSION TO INTERNSHIP

The Admission Committee has the responsibility of determining a candidate’s readiness to enroll in and continue progress in methods and the internship. The candidate must realize that standards set forth below constitute minimum preparation, and it may be the judgment of the committee that the candidate needs further work to develop content, methodology, or classroom experience.

1. Meet all the requirements for and be admitted to the Department of Teaching and Learning as an Early Childhood Pre-K-3rd Grade Post-Baccalaureate Certificate Program candidate.
2. Submit an application form for admission to methods and internship. Contact the Office of Clinical Services and Certification for appropriate deadlines.
3. Submit one letter of recommendation from someone who can speak to the applicant’s potential as a future early childhood teacher.
4. Demonstrate general content knowledge competency through successful completion of a baccalaureate degree and a passing score on the Praxis II. Contact the College of Education for details.
5. Provide evidence of successful experiences working with children.
6. Interview.
7. Initiate fingerprinting and criminal background check.
8. Provide evidence of current physical examination. This service is available free at the UAA Student Health Center for current UAA students.
9. Maintain health insurance throughout internship. Candidates may purchase this insurance through UAA.

Note: Qualified applicants are accepted on a space-available basis. Admission to the Department of Teaching and Learning does not guarantee admission to the internship.

ACADEMIC PROGRESS

All Early Childhood Pre-K-3rd Grade Post-Baccalaureate Certificate courses must be completed with a grade of C or higher in order to obtain an institutional recommendation for teacher certification.

GRADUATION REQUIREMENTS

Candidates must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS FOR POST-BACCALAUREATE CERTIFICATES

Complete the General University Requirements for Post-Baccalaureate Certificates listed at the beginning of this chapter.

B. BACKGROUND CHECK REQUIREMENTS

See Field Placements located at the beginning of the College of Education section of this chapter.

C. MAJOR REQUIREMENTS

1. Complete the following foundation area coursework (27 credits):
   Field experience in early childhood programs may be required as part of the courses.
   EDEC A242 Family and Community Partnerships 3
   EDEC A303 Young Children in Inclusive Settings 3
   EDEC A407 Observation and Documentation in Early Childhood (4) 4
   or
   EDEC A607 Observation and Documentation: Inquiry in Action (4)
   EDEC A408 Children’s Literature: Early Childhood Years (3) 3
   or
   EDEC A608 Analysis of Children’s Literature: Early Childhood Years (3)
   EDFN A300 Philosophical and Social Context of American Education (3) 3
   or


**ADMISSION REQUIREMENTS**

**ADMISSION TO THE UNIVERSITY OF ALASKA ANCHORAGE:**

**ELEMENTARY EDUCATION POST-BACCALAUREATE CERTIFICATE**

See information on Post-Baccalaureate Certificate programs at the beginning of this chapter. Complete the UAA Undergraduate Application for Admission, available on the UAA website at: [www.uaa.alaska.edu/admissions](http://www.uaa.alaska.edu/admissions).

**ADMISSION TO THE DEPARTMENT OF TEACHING AND LEARNING, COLLEGE OF EDUCATION: ELEMENTARY EDUCATION POST-BACCALAUREATE CERTIFICATE**

Admission to the Department of Teaching and Learning is a prerequisite for all education course work with the exceptions of EDFN A101 Introduction to Education, EDFN A300 Philosophical and Social Context of American Education, and EDFN A304 Comparative Education. In order to be admitted to the Department of Teaching and Learning as an Elementary Education Post-Baccalaureate Certificate candidate, applicants must meet the following requirements.

1. Complete a Department of Teaching and Learning, College of Education, application for admission to the Elementary Education Post-Baccalaureate Certificate Program by one of the following dates: March 1, August 1, or November 1. (Please be aware that the admission deadlines for UAA may vary from those of the Department of Teaching and Learning. For financial aid purposes, applicants must adhere to the deadlines established for the UAA Undergraduate Application for Admission.)
2. Have a cumulative grade point average of 3.00 for the baccalaureate degree.
3. Successfully complete the Praxis I examination and Praxis II: Elementary Content Knowledge examination. With the exceptions of EDFN A101 Introduction to Education, EDFN A300 Philosophical and Social Context of American Education, and EDFN A304 Comparative Education, students may not enroll in education courses without passing these examinations at the level established by the College of Education. Contact the College of Education for current passing scores.

Note: Admission to the Department of Teaching and Learning is competitive. Qualified applicants are accepted on a space-available basis.

**ADMISSION TO INTERNSHIP**

The Admission Committee has the responsibility of determining a candidate’s readiness to enroll in and continue progress in methods and the internship. The candidate must realize that standards set forth below constitute minimum preparation, and it may be the judgment of the committee that the candidate needs further work to develop content, methodology, or classroom experience.

1. Meet all the requirements for and be admitted to the Department of Teaching and Learning as an Elementary Education Post-Baccalaureate Certificate candidate.
2. Submit an application form for admission to methods and internship by February 15.
3. Submit one letter of recommendation from someone who can speak to the student’s potential as a future elementary teacher.
4. Demonstrate general content knowledge competency through successful completion of a baccalaureate degree and a passing score on Praxis II: Elementary Content Knowledge. Contact the College of Education for details.
5. Provide evidence of successful experiences working with children.
6. Interview.
7. Initiate fingerprinting and criminal background check.
8. Provide evidence of current physical examination. This service is available free at the UAA Student Health Center for current UAA students.

**INSTITUTIONAL RECOMMENDATION - PRE-K-3RD GRADE TEACHER CERTIFICATION**

Following are the requirements for an institutional recommendation.

1. All course requirements completed with a grade of C or higher.
2. Cumulative GPA of 2.75 in the Pre-K-3rd Grade Post-Baccalaureate Certificate courses.
3. Passing scores on the Praxis I and II examinations.
4. Internships satisfactorily completed.

**ELEMENTARY EDUCATION**

[Professional Studies Building (PSB), Room 224, (907) 786-4481](http://coe.uaa.alaska.edu/elementary)

**POST-BACCALAUREATE CERTIFICATE, ELEMENTARY EDUCATION**

(with Teacher Certification)

Those students who already have a baccalaureate degree may obtain an Elementary Education Post-Baccalaureate Certificate by completing the following requirements.

**STUDENT OUTCOMES**

Student outcomes for the program are based on the Standards for Alaska’s Teachers located at: [www.edl.state.ak.us/standards](http://www.edl.state.ak.us/standards) and the Association for Childhood Education International (ACEI) standards located at [www.acei.org](http://www.acei.org).
9. Maintain health insurance throughout internship. Students may purchase this insurance through UAA.

Note: Qualified applicants are accepted on a space-available basis. Admission to the Department of Teaching and Learning does not guarantee admission to the internship.

ACADEMIC PROGRESS

All Elementary Education Post-Baccalaureate Certificate courses must be completed with a grade of C or higher in order to obtain an institutional recommendation for elementary teacher certification.

GRADUATION REQUIREMENTS

Candidates must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS FOR POST-BACCALAUREATE CERTIFICATES

Complete the General University Requirements for Post-Baccalaureate Certificates listed at the beginning of this chapter.

B. BACKGROUND CHECK REQUIREMENTS

See Field Placements located at the beginning of the College of Education section of this chapter.

C. MAJOR REQUIREMENTS

It is recommended that candidates complete EDFN A101 Introduction to Education prior to enrolling in a 300-level education course.

1. Complete the following core courses. (21 credits)

EDFN A300 Philosophical and Social Context of American Education (3) or EDFN A304 Comparative Education (3)
EDFN A301 Foundations of Literacy and Language Development 3
EDFN A302 Foundations of Educational Technology 2
EDFN A303 Foundations of Teaching and Learning 3
EDSE A212 Human Development and Learning (3) or
PSY A245 Child Development (3)
EDSE A212L Human Development and Learning Lab (1) or
PSY A245L Child Development Laboratory (1)
EDSE A482 Inclusive Classrooms for All Children 3
MATH A205 Communicating Mathematical Ideas 3

2. Complete the following method courses. Concurrent enrollment in an internship may be required. See Admission to Internship. (19 credits)

EDEL A495A Internship I 3
EDEL A495B Internship II 6
EDEL A495A Internship I 3
EDEL A495B Internship II 6

3. Complete the following internships. (9 credits)

EDEL A495A Internship I 3
EDEL A495B Internship II 6

4. Satisfaction of all major requirements, totaling 49 credits, must be demonstrated through course work completed either before or after the award of the baccalaureate degree. However, a minimum of 29 approved credits, including the courses EDFN A495A and EDFN A495B must be completed after the award of the baccalaureate degree.

Alaska Certification Note: If the candidate is seeking certification in the State of Alaska, the candidate must complete a State-approved Alaska studies course (EDFN A478 Issued in Alaska Native Education, K-12 or HIST A341 Alaska History or ANTH A200 Natives of Alaska is recommended).

INSTITUTIONAL RECOMMENDATION, ELEMENTARY TEACHER CERTIFICATION (K - 6)

Following are the requirements for an institutional recommendation.

1. All course requirements completed with a grade of C or higher.
2. Cumulative GPA of 3.00 in the Elementary Education Post-Baccalaureate Certificate courses.
3. Passing scores on the Praxis I and II examinations.
4. Internships satisfactorily completed.

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Graduate Study
Interdisciplinary Studies Degree
Graduate Certificate
Medical School (WWAMI Program)
Graduate Degree Program Descriptions
GRADUATE STUDY

Graduate education is an integral part of the University of Alaska Anchorage and is coordinated through the Graduate School. The dean of the Graduate School has responsibility for leadership and oversight of graduate programs.

The university offers graduate certificates and master’s degrees. Students may also pursue graduate studies at UAA that apply toward doctoral degrees offered by other institutions. Some or all course work and research may be completed at UAA while the doctoral degree is granted by another university.

Students who have completed UAA graduate programs possess the knowledge and skill necessary to succeed in furthering their education, and to excel in their chosen professions. Whether the degree is required for advancement, personal and professional growth, or for other goals, students may expect the challenges and rewards of high quality graduate education.

Upon successful completion of their graduate programs, students will have demonstrated mastery of their disciplines and will have participated in independent scholarship. Appropriate exit requirements allow students to express the knowledge they have acquired in formats designed for their respective programs.

To ensure the most beneficial educational experience, students’ academic preparation and likelihood of success in their programs are carefully assessed and validated. Admission requirements provide an opportunity for students to document their credentials and demonstrate readiness for graduate studies. If an entrance examination is required, the nature of that examination is determined by the appropriate discipline. As they progress in their studies, students can expect discipline-specific advising from mentors in their programs.

Graduate students are subject to relevant policies contained in the complete UAA catalog, as well as individual program requirements.

ADMISSIONS

(907) 786-1480
www.uaa.alaska.edu/admissions

All students intending to register for one or more courses must apply for admission. Applications for admission are available online via www.uaa.alaska.edu/admissions or from the Enrollment Management One-Stop.

ADMISSION REQUIREMENTS FOR MASTER’S DEGREES

To qualify for admission to graduate programs, a student must have earned a baccalaureate degree from a regionally accredited institution in the United States, or a foreign equivalent. Students who expect to receive their baccalaureate degrees within two semesters may also apply for graduate admission; see Incomplete Admission later in this section. Admission is granted to applicants who have received their baccalaureate degree and whose credentials indicate an ability to pursue graduate work. Applicants must either have a cumulative grade point average of 3.00 (B average on a 4.00 scale) or meet the grade point average (GPA) requirements of the specific graduate program to which they are applying.

All graduate students must submit official transcripts showing completion and conferral of all baccalaureate degrees and any transcripts reflecting graduate-level courses. Transcripts are to be requested by the student and must be submitted in an officially sealed envelope. (Exception: Students do not need to request transcripts from any University of Alaska campus.) Individual graduate programs may also require additional transcripts and/or specific entrance examinations such as the Graduate Record Examination (GRE) or the Miller Analogies Test (MAT). See individual program requirements later in this chapter for details.

Applications with transcripts from institutions outside the United States or Canada must submit official transcripts and English translations, as well as an official statement of educational equivalency from a recommended international credentials evaluation service. A list of evaluation services may be obtained from the Office of Admissions. Fees depend upon the agency performing the evaluation. The evaluation service will require a separate transcript and copy of the English translation.

Applications whose native language is not English, or whose baccalaureate degree was conferred by an institution where English was not the language of instruction, must also submit scores from the Test of English as a Foreign Language (TOEFL). TOEFL scores may be waived if the applicant has been a long-term resident of the United States or of another English-speaking country and demonstrates fluency in reading, writing, listening, and speaking in English.

Applications, official transcripts, and required test scores (if any) must be submitted to the Office of Admissions. All of these materials become the property of UAA and are only released or copied for use within the University of Alaska system. Once all required transcripts and test scores have been received, the Office of Admissions will forward each student’s admission packet to the dean, department chair, or designee for consideration.

Each graduate program has individual admission standards and document requirements. Additional information such as writing samples, goal statements, letters of recommendation, research proposals, and/or interviews may be required by specific programs. When required, these materials must be submitted directly to the department chair or designee.

Deadlines for submission of materials vary by program. Please note that, for programs with rolling (ongoing) admissions, in order to ensure consideration for all financial aid opportunities, it is strongly recommended that eligible students submit:

- For fall admission: all required application forms no later than July 1, and all required application materials by August 1;
- For spring admission: all required application forms no later than November 1, and all required application materials by December 1.

No more than 9 credits may be completed in the student’s graduate program before program admission. See individual program listings for further details.

INTERNATIONAL GRADUATE STUDENTS

International Services
(907) 786-1558

International students who will attend UAA as F-1 visa students and who need a Form I-20 Certificate of Eligibility for Nonimmigrant F-1 Student status must meet university and degree program admission
requirements. In addition to being admitted to a graduate program, international students must submit the following:

1. An official TOEFL (Test of English as a Foreign Language) score of at least 550 for the paper-based test or 213 for the computer-based test.
2. A statement of financial support for the anticipated period of study and evidence of availability of funds such as a bank statement.
3. An English translation of all required documents.
4. Students who earned their baccalaureate degree outside the United States or Canada must submit an official statement from a recommended international credentials evaluation service stating that their degree is the equivalent of a U.S. bachelor’s degree. A list of evaluation services may be obtained from the Office of Admissions. Fees depend upon the agency performing the evaluation. The evaluation service will require a separate transcript and copy of the English translation.

International students in F-1 visa status must be formally admitted, full-time, degree-seeking students. Health insurance is also mandatory. Contact the international student advisor in the Office of Admissions for details.

**APPLICATION AND ADMISSION STATUS FOR MASTER’S DEGREE-SEEKING STUDENTS:**

**TERMS AND DEFINITIONS**

**APPLICATION STATUS**

**Incomplete Application**
An incomplete application is one that is not accompanied by all required documents; generally, an application is considered incomplete until all required official transcripts and test scores have been received.

**Pending Application**
A pending application has met university requirements and is awaiting departmental recommendation for admission.

**Postponed Application**
Students may postpone their applications to a future semester by notifying the Office of Admissions prior to the end of the semester for which they originally applied.

**Withdrawn Before Admission**
Students must complete or postpone their admission by the end of the semester for which they have applied. At the end of each semester, all applications still incomplete or not postponed will be withdrawn. Students whose applications have been withdrawn must reapply for admission if they later choose to attend UAA.

**ADMISSION STATUS**

**Complete Admission**
All required documents have been received and all admission standards met.

**Incomplete Admission**
Students who expect to receive their baccalaureate degree from a regionally accredited institution within two semesters (three if including summer) may apply for graduate admission. Formal acceptance becomes final only after the baccalaureate degree is completed and conferred, and all other admission requirements are met. All admission requirements must be satisfied prior to advancement to candidacy.

**Provisional Admission**
Students who show potential for success in graduate studies but do not meet all the admission requirements for a program may be provisionally admitted. Provisions are established and monitored by the dean or designee, and faculty of the program. If the provisions are not met within specified deadlines, the student may be removed from graduate degree-seeking status. All terms of provisional admission must be satisfied prior to advancement to candidacy.

**Postponed Admission**
Students may postpone their admission to a future semester by notifying the Office of Admissions prior to the end of the semester for which they originally applied.

**Withdrawn After Admission**
Admission will be withdrawn when students do not attend classes during, or have not postponed their admission by, the end of their admission semester. Students whose admissions have been withdrawn must apply for re-admission if they later choose to attend UAA.

**RELATED MASTER’S DEGREE POLICIES**

**TRANSFER CREDITS**

Up to 9 semester credits or the equivalent earned at a regionally accredited institution and not previously used to obtain any other degree may be transferred to UAA and accepted toward a master’s degree. Acceptance of transfer credits toward program requirements is at the discretion of the individual program.

Course work used to obtain a graduate certificate at another institution, if accepted for inclusion in the Graduate Studies Plan, may be used to satisfy requirements for a master’s degree.

**CHANGE OF MAJOR OR EMPHASIS AREA**

Students who wish to change majors or emphasis areas within the same degree and school or college should submit a Graduate Change of Major or Emphasis Area form to the Graduate School. Students will be expected to meet all admission and program requirements of their new major or emphasis area, and must submit a revised official Graduate Studies Plan to the Graduate School through their advisor/committee.

**CHANGE OF DEGREE**

Graduate students who wish to change degree programs must formally apply for admission to the new program through the Office of Admissions and pay the appropriate fee. This applies both to changes between schools/colleges and to different degrees within the same school or college (such as a change from the MFA in Creative Writing to the MA in English). Students will be expected to meet all admission and program requirements of the new major or emphasis area.

**CONCURRENT DEGREES**

Students may pursue concurrent degrees as long as they have formally applied and been accepted to each program through the Office of Admissions.

Students may be admitted to or complete graduate certificate requirements as they pursue a master’s degree. Coursework used to obtain a graduate certificate, if accepted for inclusion in the Graduate Studies Plan, may be used to satisfy requirements for a master’s degree.

**ADDITIONAL MASTER’S DEGREES**

Students who have received a master’s degree or doctoral degree from a regionally accredited college or university may earn a UAA
master’s degree by completing a minimum 21 resident credits not used for any other previous degree. The student must meet all the University Requirements for Master’s Degrees, School or College Requirements, and Program Requirements. Fulfilling all university, college, and program requirements may require more than the minimum 21 credits beyond the previous graduate degree. If the 21 additional credits and other requirements have been earned for each additional degree, two or more degrees may be awarded simultaneously.

**FORMAL ACCEPTANCE TO MASTER’S DEGREE PROGRAMS**

Once all required admission documents have been received by the Office of Admissions, the student’s admission packet is forwarded to the dean or designee of the specific program. The acceptance decision is made by the dean or designee, who informs the Office of Admissions of the decision. The Office of Admissions sends the official Certificate of Admission directly to the applicant. Acceptance does not establish candidacy in a graduate program (see Advancement to Candidacy).

**NON-DEGREE-SEEKING STUDENTS**

Non-degree-seeking students who wish to register for graduate courses must have the department chair’s or faculty member’s signature. Registration as a non-degree-seeking student implies no commitment by the university to the student’s later admission to a degree program. Up to 9 semester credits of graduate-level course work may be completed in the student’s graduate program before program admission. Non-degree-seeking students do not qualify for federal or state financial aid benefits nor do they qualify to receive a Form I-20 Certificate of Eligibility for Nonimmigrant (F-1) Student Status. (See Chapter 7, Academic Standards and Regulations, for further information.)

**FULL-TIME/PART-TIME STATUS FOR MASTER’S DEGREE PROGRAMS**

A student who has been admitted to a UAA graduate program and is enrolled at UAA for 9 or more 600-level credits is classified as full-time. Courses at the 400-level will count toward full-time status only if they are applicable to the graduate degree program. A graduate student enrolled at UAA for fewer than 9 credits is classified as part-time.

Audited courses, continuing education units (CEUs), and continuous registration are not included in the computation of the student’s full-time or part-time status.

**GRADUATE ASSISTANTSHIPS**

Information on graduate assistantships can be found in Chapter 4, Tuition, Fees, and Financial Aid.

**CATALOG YEAR FOR MASTER’S DEGREE PROGRAMS**

Students may elect to graduate under the requirements of the catalog in effect at the time of formal acceptance to a master’s degree program, or the catalog in effect at the time of graduation. If the requirements for a master’s degree as specified in the entry-level catalog are not met within seven years of formal acceptance into the program, admission expires and the student must reapply for admission and meet the current admission and graduation requirements in effect at the time of readmission or graduation.

All credits counted toward the degree, including transfer credit, must be earned within the consecutive seven-year period prior to graduation.

**CONTINUOUS REGISTRATION**

Continuous registration is expected every semester as appropriate for the program, from admission through graduation, until all requirements for the degree are completed.

To make continuous progress in their graduate program, students have the following options:

- Registering for at least one graduate-level credit applicable to their graduate degree, or
- Paying the continuous registration fee to remain active in the graduate program although not registered in any courses.
- Adhering to the continuous registration policy established by the specific college, school, or department. See your program advisor for details.

Students are also expected to register or pay the continuous registration fee for the summer if they use university facilities or consult with faculty during the summer. Please contact the individual graduate program for departmental policy/requirements concerning continuous registration. The continuous registration fee may be paid during each semester’s late registration period or in the Cashier’s Office up until the end of late registration. Students not making continuous progress or not on an approved leave of absence (see Leave of Absence policy) may be removed from master’s degree-seeking status.

**LEAVE OF ABSENCE**

While graduate students are expected to make continuous progress toward completion of their graduate programs, there are instances where continuous registration is not possible. Students who need to temporarily suspend their studies must apply for a leave of absence through their advisor and committee chair. If the leave is approved, the student is placed on inactive status. Inactive status does not negate the policy which requires that all credits counted toward the degree, including transfer credits, be earned within a consecutive seven-year period prior to graduation. Students who fail to make continuous progress (see Continuous Registration) or to obtain an approved leave of absence may be removed from master’s degree-seeking status.

**GOOD STANDING FOR MASTER’S DEGREE-SEEKING STUDENTS**

Any graduate student who maintains a 3.00 (B) GPA in all coursework that meets the student’s graduate program requirements and who is not on probation is considered to be in good standing. For students admitted to candidacy, coursework consists of those courses identified on the official graduate studies plan.

**PROBATION**

A graduate student whose GPA falls below 3.00 (B) in courses applicable to his/her graduate program, or a graduate student who for reasons specified in writing, is not making continuous satisfactory progress toward completing the program requirements, will be placed on probation. If the requirements to remove probation are not satisfied within one semester, the student will be removed from master’s degree-seeking status. Each school or college has developed written procedures to deal with appeals arising from removal from master’s degree-seeking status.

**REMOVAL FROM MASTER’S DEGREE-SEEKING STATUS**

A graduate student’s academic status may be changed to non-degree-seeking if the requirements to remove provisional admission or probation are not satisfied, or if minimum academic standards are not met. In some cases, students may be removed from master’s degree-seeking status without having first been placed on probation (see Non-Degree-Seeking Students).
ACADEMIC APPEALS
Students have the right to appeal academic actions (See Academic Dispute Resolution Procedures in the current UAA Fact Finder/Student Handbook for information).

REINSTATEMENT TO MASTER’S DEGREE-SEEKING STATUS
Graduate students who have been removed from master’s degree-seeking status for failing to meet academic standards may apply for reinstatement to a graduate program after one calendar year from the semester in which they were removed from master’s degree-seeking status. When re-applying to graduate studies, it is the student’s responsibility to demonstrate ability to succeed in the graduate program.

Graduate students who have been removed from master’s degree-seeking status for not making continuous progress (see Continuous Registration) must re-apply for graduate study and pay the appropriate fee.

Reinstated graduate students must re-apply for candidacy and may be required to meet the program requirements which are in effect at the time of reinstatement.

GRADUATE ADVISOR
The dean or designee, in conjunction with the appropriate department chair of the school or college offering the graduate program, appoints a graduate advisor for each student accepted to a graduate program. The graduate advisor and the departmental chair will be from the same program.

GRADUATE STUDIES COMMITTEE
For graduate programs with a thesis, independent scholarship, or research project, the advisor and the student select a graduate studies committee as part of the process to complete the requirements of the graduate degree. The committee typically consists of three UAA faculty, including the chair, who shall normally be a full-time faculty member. One faculty committee member may be from a discipline outside the student’s school or college or UAA. Committee members who are not UAA faculty, but have the appropriate professional credentials, may be included with the approval of the dean of the Graduate School, college dean, committee chair, and the student. The committee members must agree to serve and the committee must be approved by the dean of the Graduate School and the college dean.

RESPONSIBILITIES OF GRADUATE ADVISOR/COMMITTEE
The division of responsibility between the advisor and/or committee is determined at the program level. The graduate advisor and/or committee will do the following:

1. Review and approve the graduate student’s official Graduate Studies Plan, ensuring that it includes: University Requirements for Master’s Degrees; all courses required for the degree; research culminating in a thesis, independent scholarship or project, if required; a written or oral comprehensive examination, independent scholarship evaluation, or thesis or project defense; any special program requirements; and arrangements to remove any deficiencies in the student’s academic background.
2. Monitor the student’s progress and timely completion of all requirements in the official Graduate Studies Plan (see Continuous Registration).
3. Monitor the timely submission of the official Graduate Studies Plan and other documents to the Graduate School.
4. Review and approve any changes to the official Graduate Studies Plan. The Graduate School will forward the original and final documents to the Office of the Registrar.
5. Review and approve the thesis, independent scholarship, or research project, including initial proposals, according to procedures established by the individual graduate program.
6. Review, and approve requests for temporary leaves of absence, which, if approved, will result in the student being placed on inactive status.
7. Administer and assess the comprehensive examination, administer independent scholarship evaluation, or thesis or project defense.

OFFICIAL GRADUATE STUDIES PLAN
The official Graduate Studies Plan formally establishes the specific program requirements which will, upon satisfactory completion, entitle the student to receive the master’s degree. The plan is based upon the catalog requirements for the graduate degree program to which the student has been accepted. The plan becomes official once it is approved by the dean of the Graduate School or designee and is filed with the Office of the Registrar. Students are expected to complete all requirements listed on their official Graduate Studies Plan, as well as all University Requirements for Master’s Degrees. Any revision to the plan will need to be submitted to the Graduate School through the graduate advisor/committee.

UNIVERSITY REQUIREMENTS FOR MASTER’S DEGREES
To complete a master’s degree, a student must complete the University Requirements for Master’s Degrees, school or college requirements, and program requirements. A graduate student’s program is based upon the catalog requirements for the relevant graduate degree which are in effect at the time the student is accepted. University requirements for all graduate degrees are as follows:

1. A student must be admitted to the degree program and establish an approved Graduate Studies Plan.
2. No more than 9 credits may be completed in the student’s graduate program before program admission. See individual program listings for further details.
3. The student must complete at least 30 approved semester credits beyond the baccalaureate degree. Typically, at least 24 credits in each graduate degree must consist of courses other than thesis, independent scholarship (independent study), and/or a research project. On approval by the dean of the Graduate School and college dean, an official Graduate Study Plan may stipulate other course credit requirements.
4. Up to 9 semester credits not used toward any other degree (graduate or undergraduate) may be transferred to UAA from an accredited institution and counted toward a master’s degree. Acceptance of transfer credit toward program requirements is at the discretion of the individual program faculty.
5. Individual program deans or designees may allow credit earned at other universities within the UA system, excluding thesis credit and credits used toward another degree, to be transferred to UAA, as long as at least 9 credits applicable to the student’s program are earned at UAA after acceptance into the program.
6. Only 400- and 600-level courses approved by the graduate student’s graduate advisor, dean or designee, and graduate studies committee, may be counted toward graduate program requirements.
7. A cumulative GPA of at least 3.00 must be earned in courses identified in the official Graduate Study Plan.
8. Courses at the 500-level are for professional development and are not applicable toward any degree.
9. In 600-level courses, a grade of C is minimally acceptable, provided the student maintains a cumulative GPA of 3.00 (B) in all courses applicable to the graduate program. At least 21 credits must be taken at the graduate-level (600) for any master’s degree, including thesis, independent scholarship, or research credits. For performance comparison only, in 600-level courses a grade of P (pass) is equivalent to a B or higher, but does not enter into the GPA calculation.
10. Courses taken as credit by examination, or graded credit/no credit (CR/NC) do not count toward graduate program requirements. They may, however, be used to satisfy prerequisites or to establish
GRADUATE PROGRAMS

competency in a subject, thus allowing the advisor/committee to waive certain courses in an established program, as long as the total credits in the program remain the same.

11. If the requirements for a master’s degree as specified in the entry-year catalog are not met within seven years of formal acceptance into the program, admission expires and the student must reapply for admission and meet the admission and graduation requirements in effect at the time of readmission or graduation.

12. All credits counted toward the degree, including transfer credits, must be earned within the consecutive seven-year period prior to graduation.

13. Students are expected to be continuously registered throughout their graduate program (see Continuous Registration).

14. The student must complete all requirements established by the program and must pass a written or oral comprehensive examination, an evaluation of independent scholarship, project or thesis defense, or similar evaluation as established by the program. The evaluation, examination, or defense must be approved by all graduate committee members as passing the requirement.

15. When an oral comprehensive examination, project or thesis defense, or evaluation of independent scholarship is required, the student may select an outside reviewer approved by the dean of the Graduate School and college dean to participate and to ensure that the evaluation, examination, or defense is fair and appropriate. Typically, the outside reviewer is a faculty member from another department in the university, or other qualified individual in the area in which the student is seeking a degree.

16. Thesis format must meet the requirements as established by the Graduate School.

APPLICATION FOR GRADUATION

Graduate students must submit an Application for Graduation, signed by the academic advisor and accompanied by the required fee, to the Office of the Registrar. Application for Graduation deadlines are March 1 for summer graduation, May 1 for fall graduation, and September 15 for spring graduation.

Applications received after the deadline will be processed for the following semester. Students who apply for graduation but do not complete degree requirements by the end of the semester must re-apply for graduation. The application fee must be paid with each Application for Graduation.

This policy is currently under review. Please see the UAA Office of the Registrar website at www.uaa.alaska.edu/records/ for current information regarding graduation and the posting of degrees.

INTERDISCIPLINARY STUDIES DEGREE

A student who has received a baccalaureate degree from a regionally accredited institution and whose credentials indicate the ability to pursue graduate work may develop an interdisciplinary studies degree program (MA or MS). The student must apply and meet all requirements for graduate admission, and specify an interdisciplinary studies major. The proposed program must differ significantly from and may not substitute for an existing UAA graduate degree program. The student may select no more than one half of the program credits from one existing graduate degree program, and courses must come from two or more disciplines (i.e., subjects). In addition to the University requirements for Master’s Degrees listed above, students must comply with the following procedures:

1. The student submits a UAA Graduate Application for Admission (Interdisciplinary Studies Major) with the appropriate fee to the Office of Admissions.

2. The student invites a faculty member to chair their graduate studies committee and to serve as the student’s graduate advisor. The chair shall normally be a full-time faculty member. The chair must agree to serve and must be approved by the appropriate dean(s) or designee(s).

3. The student proposes a graduate studies committee of at least three faculty members from the appropriate academic disciplines. The committee members and chair must represent all concentration areas of 9 credits or more. The committee members must agree to serve and be approved by the appropriate dean(s) or designee(s).

4. The student develops a proposed interdisciplinary Graduate Studies Plan Specifying the degree (MA or MS) and title or concentration. In developing this proposal, the student should review all graduate degree policies and procedures. To receive an interdisciplinary studies master’s degree from UAA, the student must incorporate into their proposal all University Requirements for Master’s Degrees, and any school or college requirements applicable. In addition, a minimum of 21 credits must be drawn from existing 600-level courses.

5. The student presents the proposal to the committee and chair for preliminary review and approval. If the committee and chair support the proposal, it will be forwarded to the appropriate dean(s) or designee(s). If the proposal and committee structure are approved, the proposal is then submitted to the Graduate School.

6. The proposal and committee structure, when approved by the dean of the Graduate School, becomes the student’s official Graduate Studies Plan. A copy of the Graduate Studies Plan will be kept in the Graduate School.

7. The Graduate Studies Plan and complete admission packet will then be forwarded to the specific graduate programs for an acceptance decision. Acceptance is determined by the dean and/or faculty of the affected graduate programs, who then inform the Office of Admissions of their decision.

8. Once accepted to graduate study, the students work with their advisors and committees to ensure that satisfactory progress is made toward completing degree requirements. Students are expected to be continuously registered throughout their graduate program (see Continuous Registration).

9. The student must complete all requirements established in the official interdisciplinary Graduate Studies Plan, and must pass a written or oral comprehensive examination, an evaluation of independent scholarship, project or thesis defense, or similar evaluation as established by the program. The evaluation, examination, or defense must be approved by all graduate committee members as passing the requirement, by the chair of the department representing the committee chair, and by the dean of the Graduate School.

10. When an oral comprehensive examination, project or thesis defense, or evaluation of independent scholarship is required, the student may select an outside reviewer approved by the dean of the Graduate School to participate and assure that the evaluation, examination, or defense is fair and appropriate. Typically, the outside reviewer is a faculty member from another department in the university, or other qualified individual in the area in which the student is seeking a degree.

GRADUATE CERTIFICATES

A graduate-level certificate program is a coherent sequence of related graduate courses. These programs are designed to provide graduate education past the baccalaureate level and/or to enhance the education of students who have already completed a master’s degree. Students will complete a linked series of courses, which may include a capstone experience or project that focuses their intellectual experience. Upon completion of a certificate, students will have acquired an area of specialization or an interdisciplinary perspective. Further, success in a graduate-level certificate program should prepare students to better accomplish the goals of their discipline.

ADMISSIONS

(907) 786-1480

www.uaa.alaska.edu/admissions

All students intending to register for one or more courses must apply for admission. Applications for admission are available from the Enrollment Management One-Stop or online via www.uaa.alaska.edu/admissions.
ADMISSION REQUIREMENTS FOR GRADUATE CERTIFICATES

To qualify for admission to graduate certificate programs, a student must have earned a baccalaureate or master’s degree from a regionally accredited institution in the United States or a foreign equivalent.

Students who expect to receive their baccalaureate or master’s degree within two semesters may also apply for graduate admission; see Incomplete Admission later in this section. Admission is granted to applicants who have received their baccalaureate or master’s degree and whose credentials indicate their ability to pursue graduate work. In general, applicants must either have a cumulative GPA of 3.00 (B average on a 4.00 scale) or meet the GPA requirements of the specific graduate certificate program to which they are applying.

All graduate students must submit official transcripts showing completion and conferral of all baccalaureate and/or graduate degrees and any transcripts reflecting graduate-level courses. Transcripts are to be requested by the student and must be submitted in an officially sealed envelope. (Exception: Students do not need to request transcripts from any University of Alaska campus.) Individual programs may also require additional transcripts and/or specific entrance examinations such as the GRE or the Miller Analogies Test. See individual program requirements later in this chapter for details.

Applicants with transcripts from institutions outside the United States or Canada must submit official transcripts and English translations as well as an official statement of educational equivalency from a recommended international credentials evaluation service. A list of evaluation services may be obtained from the Office of Admissions. Fees depend upon the agency performing the evaluation. The evaluation service will require a separate transcript and copy of the English translation.

Applicants whose native language is not English or whose baccalaureate degree was conferred by an institution where English was not the language of instruction must also submit scores from the Test of English as a Foreign Language (TOEFL). TOEFL scores may be waived if the applicant has a long-term resident of the United States or of another English-speaking country and demonstrates fluency in reading, writing, and speaking in English.

Applications, official transcripts, and required test scores (if any) must be submitted to the Office of Admissions. All of these materials become the property of UAA and are only released or copied for use within the University of Alaska system. Once all required transcripts and test scores have been received, the Office of Admissions will forward each student’s admission packet to the dean, department chair, or designee for consideration.

Each graduate certificate program has individual admission standards and document requirements. All of these materials become the property of UAA and are only released or copied for use within the University of Alaska system. Additional information such as writing samples, goal statements, letters of recommendation, research proposals, and/or interviews may be required by specific programs. When required, these materials must be submitted directly to the department chair or designee.

Deadlines for submission of materials vary by program. No more than one-third of the credits may be completed in the student’s certificate program before application for admission. See individual program listings for information.

INTERNATIONAL GRADUATE CERTIFICATE STUDENTS

International Services
(907) 786-1558

International students who will attend UAA as F-1 visa students and who need a Form I-20 Certificate of Eligibility for Nonimmigrant F-1

Student status must meet university and degree program admission requirements. In addition to being admitted to a graduate program, international students must submit the following:

1. An official TOEFL (Test of English as a Foreign Language) score of at least 550 for the paper-based test or 213 for the computer-based test.
2. A statement of financial support for the anticipated period of study and evidence of availability of funds such as a bank statement.
3. An English translation of all required documents.
4. Students who earned their baccalaureate degree outside the United States or Canada must submit an official statement from a recommended international credentials evaluation service stating that their degree is the equivalent of a U.S. bachelor’s degree. A list of evaluation services may be obtained from the Office of Admissions. Fees depend upon the agency performing the evaluation. The evaluation service will require a separate transcript and copy of the English translation.

International students in F-1 visa status must be formally admitted, full-time, degree-seeking students. Health insurance is also mandatory. Contact the international student advisor in the Office of Admissions for details.

APPLICATION AND ADMISSION STATUS FOR GRADUATE CERTIFICATE-SEEKING STUDENTS: TERMS AND DEFINITIONS

APPLICATION STATUS

Incomplete Application
An incomplete application is one that is not accompanied by all required documents; generally, an application is considered incomplete until all required official transcripts and test scores have been received.

Pending Application
A pending application has met university requirements and is awaiting departmental recommendation for admission.

Postponed Application
Students may postpone their applications to a future semester by notifying the Office of Admissions prior to the end of the semester for which they originally applied.

Withdrawn Before Admission
Students must complete or postpone their admission by the end of the semester for which they have applied. At the end of each semester, all applications still incomplete or not postponed will be withdrawn. Students whose applications have been withdrawn must re-apply for admission if they later choose to attend UAA.

ADMISSION STATUS

Complete Admission
All required documents have been received and all admission standards met.

Incomplete Admission
Students who expect to receive their baccalaureate or master’s degree from a regionally accredited institution within two semesters (three if including summer) may apply for graduate admission. Formal acceptance becomes final only after the baccalaureate or master’s degree is completed and conferred, and all other admission requirements are met. All admission requirements must be satisfied prior to advancement to candidacy.
Related Graduate Certificate Policies

Graduate Certificate Transfer Credits
Up to one-third of the credits (semester) or the equivalent earned at a regionally accredited institution and not previously used to obtain any undergraduate degree or certificate may be transferred to UAA and accepted toward a graduate certificate. Acceptance of transfer credits toward program requirements is at the discretion of the individual program.

Change of Graduate Certificates
Graduate students who wish to change certificate programs within a college or program must complete a Change of Graduate Degree or Emphasis Area form and pay the appropriate fee. This applies both to changes between schools or colleges and to different certificates within the same school or college. Students will be expected to meet all admission and program requirements of their new major or emphasis area.

Concurrent Graduate Certificates
Students may pursue concurrent graduate certificates as long as they have formally applied and been accepted to each program through the Office of Admissions.

Additional Graduate Certificates
Students who have received a graduate certificate or master’s degree from UAA or another regionally accredited college or university may earn a UAA graduate certificate by completing at least one-third of the certificate credit requirements in residence at UAA and after admission to the certificate program. Credits previously used for any undergraduate certificate or degree may not be used to satisfy graduate certificate program requirements. Multiple graduate certificates may be awarded only if they differ by at least one-third of their credit requirements.

Formal Acceptance to Graduate Certificate Programs
Once all required admission documents have been received by the Office of Admissions, the student’s admission packet is forwarded to the dean or designee of the specific program. The acceptance decision is made by the dean or designee, who informs the Office of Admissions of the decision. The Office of Admissions sends the official Certificate of Admission directly to the applicant. Acceptance to a graduate certificate program does not guarantee later admission to other graduate certificates or degrees.

Non Degree-Seeking Students
Non-degree-seeking students who wish to register for graduate courses must have the department chair’s or faculty member’s signature. Registration as a non-degree-seeking student implies no commitment by the university to the student’s later admission to a graduate certificate program. Up to one third of the credits of graduate certificate course work may be completed in the student’s graduate certificate program before program admission. Non-degree-seeking students do not qualify for federal or state financial aid benefits nor do they qualify to receive a Form I-20 Certificate of Eligibility for Nonimmigrant (F-1) Student Status.

Full-Time/Part-Time Status for Graduate Certificate-Seeking Students
A student who has been admitted to a UAA graduate certificate program and is enrolled at UAA for 9 or more 600-level credits is classified as full-time. Courses at the 400-level will count toward full-time status only if they are applicable to the graduate certificate program. A graduate certificate student enrolled at UAA for fewer than 9 credits is classified as part-time.

Audited courses, continuing education units (CEUs), and professional development courses (500 level) are not included in the computation of the student’s full-time or part-time status.

Catalog Year for Graduate Certificate Programs
Students may elect to graduate under the requirements of the catalog in effect at the time of formal acceptance to a graduate certificate program, or the catalog in effect at the time of graduation.

If the requirements for a graduate certificate program as specified in the entry-level catalog are not met within seven years of formal acceptance into the program, admission expires and the student must reapply for admission and meet the admission and graduation requirements in effect at the time of readmission or graduation.

All credits counted toward the certificate, including transfer credit, must be earned within the consecutive seven-year period prior to graduation.

Good Standing for Graduate Certificate-Seeking Students
A graduate certificate-seeking student who maintains a 3.00 (B) cumulative GPA in courses on their official Graduate Certificate Studies Plan is considered in good standing.

Removal from Graduate Certificate-Seeking Status
A graduate certificate student’s academic status may be changed to non-degree-seeking if the requirements to remove provisional admission are not satisfied, or if minimum academic standards are not met.

A graduate certificate student whose cumulative GPA falls below 3.00 (B) in courses applicable to his/her graduate certificate program, or a graduate certificate student who, for reasons specified in writing, is not making satisfactory progress toward completing the program requirements may be removed from graduate certificate-seeking status. Each school or college has developed procedures to deal with appeals arising from removal from graduate certificate-seeking status.
**ACADEMIC APPEALS**

Students have the right to appeal academic actions (See Academic Dispute Resolution Procedure in the UAA Fact Finder/Student Handbook for information).

**REINSTATEMENT TO GRADUATE CERTIFICATE-SEEKING STATUS**

Graduate students who have been removed from graduate certificate-seeking status for not making satisfactory progress must reapply for a graduate certificate program and pay the appropriate fee.

**GRADUATE CERTIFICATE ADVISOR**

The dean or designee of the appropriate school or college offering the graduate certificate program appoints an advisor for each student accepted to the program.

**RESPONSIBILITIES OF THE GRADUATE CERTIFICATE ADVISOR/COMMITTEE**

The division of responsibility between the advisor and/or committee is determined at the program level. The graduate certificate advisor and/or committee will do the following:

1. Review the student's graduate certificate studies plan, ensuring that it includes: the Graduate Certificate University Requirements; all courses required for the certificate; any special program requirements; and a capstone experience or project, if required.
2. Arrange to remove any deficiencies in the student's admission or academic background.
3. Approve the official Graduate Certificate Studies Plan.
4. Monitor the student's progress and timely completion of all requirements.
5. Monitor the timely submission of the official Graduate Certificate Studies Plan and other documents to the Graduate School.
6. Review and approve any changes to the official Graduate Certificate Studies Plan. The Graduate School will forward the original and final documents to the Office of the Registrar.
7. Review and approve the capstone experience or project according to procedures established by the individual program.
8. Administer and assess a comprehensive examination, if required.

**OFFICIAL GRADUATE CERTIFICATE STUDIES PLAN**

The official Graduate Certificate Studies Plan formally establishes the specific program requirements which will, upon satisfactory completion, entitle the student to receive the graduate certificate. The program plan is based upon the catalog requirements for the graduate certificate program to which the student has been accepted. The plan becomes official once it is approved by the Dean or designee and is filed with the Office of the Registrar. Students are expected to complete all requirements listed on the official Graduate Certificate Studies Plan, as well as all Graduate Certificate University Requirements and college requirements for the program. Any revision to the plan will need to be submitted to the Office of the Registrar through the graduate certificate advisor/committee.

**DETERMINING PROGRAM REQUIREMENTS**

A graduate certificate student's program is based upon the catalog requirements for the relevant graduate certificate program which are in effect at the time the student was accepted to the program.

**GRADUATE CERTIFICATE UNIVERSITY REQUIREMENTS**

University requirements for all graduate certificates are as follows:

1. A student must be admitted to the certificate program and establish an approved Graduate Studies Plan. Students must fulfill all General University Requirements, college requirements and certificate program requirements.
2. The student must complete at least 12 approved semester credits not counted toward the baccalaureate degree.
3. The student must complete all requirements established by the program.
4. A cumulative GPA of at least 3.00 (B) must be earned in courses identified on the official Graduate Certificate Studies Plan.
5. Only 400- and 600-level courses approved by the student's graduate certificate advisor/committee and the Dean or designee may be counted toward graduate certificate requirements.
6. In 400-level courses, a minimum grade of B is required for the course to count toward the certificate program requirements.
7. Courses at the 500-level are for professional development and are not applicable toward any certificate, even by petition.
8. In 600-level courses, a grade of C is minimally acceptable, provided the student maintains a cumulative GPA of 3.00 (B) in all courses applicable to the graduate certificate program. At least two thirds of the credits required for the certificate must be taken at the graduate level (600). For performance comparison only, in 600-level courses a grade of P (pass) is equivalent to a B or higher, but does not enter into the GPA calculation.
9. Up to one-third of the semester credits used to complete the requirements of a graduate certificate may be transferred to UAA from a regionally accredited institution. Acceptance of transfer credit toward program requirements is at the discretion of the individual program.
10. Individual program deans or designees may allow credit earned at other universities in the UA system, to be transferred to UAA, as long as at least 6 credits applicable to the student's certificate program are earned at UAA after acceptance into the program.
11. Courses taken by correspondence, credit by examination, or graded credit/no credit (CR/NC) do not count toward graduate certificate requirements. They may, however, be used to satisfy prerequisites or to establish competency in a subject, thus allowing the advisor or committee to waive certain courses in an established program, as long as the total credits in the graduate certificate program remain the same.
12. If the requirements for a graduate certificate as specified in the entry-level catalog are not met within seven years of formal acceptance into the program, admission expires and the student must reapply for admission and meet the admission and graduation requirements in effect at the time of readmission or graduation.
13. All credits counted toward the graduate certificate, including transfer credits, must be earned within the consecutive seven-year period prior to graduation.
14. Coursework used to obtain a graduate certificate or graduate degree, if accepted for inclusion in the Graduate Certificate Studies Plan and approved by the dean of the Graduate School and college dean, may be used to satisfy requirements for a graduate certificate.
15. At least one third of the credits used to satisfy graduate certificate requirements must be UAA resident credit completed after acceptance into the program. See the exception for UA system credits in (10) above.

**APPLICATION FOR GRADUATION**

Graduate certificate students must submit an Application for Graduation, signed by the academic advisor and accompanied by the required fee, to the Office of the Registrar. Application for Graduation deadlines are March 1 for summer graduation, May 1 for fall graduation, and September 15 for spring. Applications received after the
COLLEGE OF ARTS AND SCIENCES

ANTHROPOLOGY
Beatrice McDonald Hall (BMH), Room 214, (907) 786-6840
http://anthro.uaa.alaska.edu

The Master of Arts degree in Anthropology, with emphases in General or Applied Anthropology, is designed to provide a rigorous background in contemporary theory and practice in anthropology, particularly through the use of seminars, internships, and independent research. The MA degree requires a research-based thesis. Within the MA program, the Applied Anthropology emphasis offers specialized tracks designed to train students in applied aspects of anthropology that may be employment related. The Applied Cultural Anthropology track identifies and assists in resolving current social issues in their cultural dimensions. The Applied Biological Anthropology track encompasses forensic anthropology, medical anthropology, and other practical applications of physical anthropology. The Cultural Resource Management track involves the inventory, assessment, and conservation of archaeological and historical sites and remains, and places of traditional cultural importance, as a part of a larger management framework.

MASTER OF ARTS, ANTHROPOLOGY

ADMISSION REQUIREMENTS
See Admission Requirements for Master’s Degrees at the beginning of this chapter. Deadline for application: February 15 for fall semester admission. Students seeking admission into the Anthropology MA degree program must meet the following requirements (1-3) and must submit the following documents (4-9): 1. Although graduating college or university seniors are invited to apply, no student may be formally admitted to graduate study until the baccalaureate degree has been awarded from an accredited college or university. 2. It is strongly recommended that the student has completed a minimum of 18 credits of undergraduate coursework in Anthropology with a GPA of 3.00. An undergraduate major in anthropology is preferred. 3. Students must have at least a 3.00 overall undergraduate GPA. 4. Completed UAA graduate admissions application form. 5. Official transcripts of college-level work from each institution attended. 6. Graduate Record Examination results (General Test Scores), taken within five years prior to the application date. 7. Three letters of recommendation from professors or other professionals particularly qualified to attest to the applicant’s qualifications for graduate study. 8. A letter of intent, including a brief statement of the applicant’s research and career goals and reasons for pursuing graduate study in Anthropology at UAA. 9. (Optional) An example of a substantial paper or research proposal indicative of the applicant’s potential for graduate study.

Applicants may also be requested to complete a personal interview.

Acceptance is determined by the Anthropology Graduate Admissions Committee and is based on:
1. The prospective student's overall credentials; and
2. The availability of appropriate faculty for student research interests.

Failure to meet any of the above criteria may result in conditional admission to the MA program. Conditional admission may be conferred on students if important deficiencies are identified in their undergraduate training. Conditionally admitted students are notified of those deficiencies.
and required to rectify them at UAA, normally within a period of one year, before admission to regular status in the program is conferred. In some cases, deficiencies can be made up at another academic institution. Conditional students cannot receive graduate teaching assistantships, research assistantships, or departmental travel/research grants.

Prospective graduate students are strongly advised to contact all potential faculty for research/advisor arrangements at an early stage of their admission process. An attempt is made to assign an initial advisor to students based on interests and other academic criteria.

**ACADEMIC PROGRESS**

To maintain continuous progress toward the MA degree, a student in the graduate program is expected to complete each semester a minimum of 9 credits of coursework applicable to the program, with grades of A or B, for full-time students, or 3 credits per semester for part-time students. Failure to comply may result in the student being removed from the program. The same is true of students who fail to rectify conditions of their admission. In addition, students must advance to candidacy within five years, unless on an approved leave of absence. Such leaves of absence may not total more than four semesters.

**CANDIDACY REQUIREMENTS**

See the beginning of this chapter for Advancement to Candidacy requirements. A student may apply for advancement to candidacy by doing the following:

1. Select a graduate studies committee by the end of the first semester of graduate study.
2. Submit an Official Graduate Studies Plan, as described in the UAA catalog, after no more than three semesters of full-time graduate study.
3. Complete at least 24 semester-credits of non-thesis course work applicable to the MA program.
4. Demonstrate research or statistical competence needed to complete the degree program, as approved by a student’s graduate studies committee. Usually, UAA courses such as STAT A252 or A253 or the equivalent, or computer skills such as photogrammetry, SEM image analysis, or GIS analysis will meet this requirement.
5. In addition, a student may be required to demonstrate mastery of a foreign language, if deemed necessary by the graduate studies committee.
6. Pass a written comprehensive examination in anthropology. Normally, this examination is taken before the end of the second year of study, but in any case must be taken by the completion of 30 semester-credits. This examination may be taken twice, but failure to pass the examination a second time will result in removal from the program.
7. Prepare a thesis prospectus for approval by the graduate studies committee.

**GRADUATION REQUIREMENTS**

See University Requirements for Master’s Degrees at the beginning of this chapter.

**PROGRAM REQUIREMENTS**

1. The following courses must be taken with a grade of A or B.
2. At least 21 credits must be taken at the graduate (600) level.
3. No more than 6 credits of Internship/Practicum or Independent Study may be applied to the degree, unless a student is taking more than one track in the Applied Anthropology emphasis, in which case 3 additional credits are available.
4. Courses outside the field of Anthropology may be taken as electives if approved by the student’s advisor.
5. The student must submit a written MA thesis to the graduate studies committee, conforming to UAA specifications.
6. The student must pass an oral defense of the thesis, open to the university community and the general public.
7. The student must submit an Application for Graduation.

8. One of the following study emphases must be chosen:

**General Anthropology Emphasis**

1. Complete the following:
   - ANTH A602 Proseminar in Cultural Anthropology* 3
   - ANTH A605 Proseminar in Biological Anthropology* 3
   - ANTH A611 Proseminar in Archaeology* 3
   - ANTH A699 Thesis Research 1-6
   - 600 level elective courses 6
   - 400 or 600 level elective courses 9-14
2. A total of 30 credits are required for the degree.

**Applied Anthropology Emphasis**

1. Complete the following:
   - ANTH A602 Proseminar in Cultural Anthropology* 3
   - ANTH A605 Proseminar in Biological Anthropology* 3
   - ANTH A611 Proseminar in Archaeology* 3
   - ANTH A699 Thesis Research 1-6
   - 600 level elective courses 6
   - 400 or 600 level elective courses 9-14

* All Proseminar courses must be taken in residence at UAA. These courses may not be taken by Directed Study or by correspondence. Students may not take any Proseminar until formally admitted to the MA Program.

2. Complete one of the following tracks:

**Applied Cultural Anthropology Track**

Complete the following courses (9 credits):
- ANTH A615 Advanced Applied Anthropology 3
- ANTH A630 Advanced Research Methods in Cultural Anthropology* 3
- ANTH A695 Anthropology Practicum 3

*If this course was taken as an undergraduate upper division course (ANTH A415 or the equivalent), another course may be substituted with the approval of the student’s Graduate Studies Committee.

**Applied Biological Anthropology Track**

Complete 9 credits from the following:
- ANTH A645 Advanced Evolution of Humans and Disease (3)
- ANTH A655 Advanced Medical Anthropology (3)
- ANTH A657 Nutritional Anthropology (3)
- ANTH A685 Advanced Human Osteology (3)
- ANTH A686 Advanced Applied Human Osteology (3)
- ANTH A695 Anthropology Practicum (3)

**Cultural Resource Management Track**

a. Complete the following:
   - ANTH A675 Cultural Resource Management 3
b. Complete 6 credits from the following:
   - ANTH A631 Field Methods in Archaeology (1-8)*
   - ANTH A680 Advanced Analytical Techniques in Archaeology (3)
   - ANTH A676 Ethical Issues in Archaeology (3)
   - ANTH A681 Advanced Museum Studies in Anthropology (3)
   - ANTH A695 Anthropology Practicum (3)

*No more than 3 credits may be applied to this emphasis.

3. Complete 400-level or 600-level elective courses 6-11

4. A total of 30 credits are required for the degree.

**FACULTY**

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The graduate program in Biological Sciences offers a research program of study leading to the Master of Science degree. The MS degree requires a thesis that is the result of research performed under the supervision of a UAA faculty member.

We recommend that prospective students review the program guidelines and expectations, which are detailed in the department’s graduate handbook at www.uaa.alaska.edu/biology/graduate/graduate-studies/prospective.cfm. General guidelines for prospective students can also be found on UAA’s Graduate School webpage: www.uaa.alaska.edu/academics/graduatestudies/prospective.cfm

**MASTER OF SCIENCE, BIOLOGICAL SCIENCES**

**ADMISSION REQUIREMENTS**

Students seeking admission into the Biological Sciences MS degree program should meet the following requirements (1-3). Applicants must submit items 3 through 6 to the university, and items 7 and 8 directly to the department. Applicants should also submit unofficial copies of items 3 through 6 to the Department of Biological Sciences. Details on this process are available at www.uaa.alaska.edu/biology/graduate/paperwork.cfm.

1. Students must have a bachelor’s degree in biology, chemistry, or equivalent science to be determined by the graduate advisory committee (GAC). Although graduating college or university seniors are invited to apply, no student may be formally admitted to graduate study until the baccalaureate degree has been awarded from an accredited college or university.

2. Applicants must take both the general and subject (either biology, biochemistry, or chemistry) Graduate Record Examination (GRE) and have the scores sent directly to the university from the testing agency.

3. Applicants must have at least a 3.00 GPA, or at least a 70th percentile in two out of the six GRE scores (verbal, quantitative, analytical, or three subtests of the subject GRE). Successful applicants ordinarily have no grade lower than a C in undergraduate science courses.

4. Applicants must complete and submit the UAA graduate application form, which is available at http://edit.uaa.alaska.edu/admissions/admis_grad.cfm.

5. Applicants must submit official transcript(s) reflecting graduate-level credits and credits pertaining to the baccalaureate degree from each institution attended. Applicants with transcript(s) from institution(s) outside the United States or Canada must provide an official statement of equivalency from a recommended credentials evaluation service and, if necessary, an English translation of the transcript.

6. Foreign students must submit scores from the Test of English as a Foreign Language (TOEFL) if English is not the applicant's native language or was not the language of instruction for the applicants baccalaureate degree. TOEFL scores may be waived if the applicant has been a long-term resident of the United States or of another English-speaking country. At a minimum, students must meet the TOEFL score guidelines set by UAA for undergraduate admission. See the UAA website for scoring guidelines.

7. A brief (typically one page) statement of the applicant’s research and career goals and three letters of recommendation from persons who are qualified to evaluate the applicant’s ability to successfully perform graduate-level coursework and research should be submitted directly to the department.

8. A letter of support from a UAA faculty member expressing willingness to accept the applicant into his/her research group and a statement of available funding or funding opportunities for research support for the student.

**GRADUATION REQUIREMENTS**

See University Requirements for Master’s Degrees at the beginning of this chapter.

**PROGRAM REQUIREMENTS**

1. Students working toward an MS degree in Biological Sciences must fulfill the following minimum requirements:
   a. A minimum of 30 credits is required, of which at least 21 credits must be at the 600 level.
   b. Complete the following courses:
      - 600-level Science Credits minimum 9
        - [does not include BIOL A692, BIOL A693, BIOL A696, BIOL A698, BIOL A699 credits]
      - BIOL A692 Graduate Seminar (1) 2 to 6
      - BIOL A698 Directed Research (1-6)* up to 12
      - BIOL A699 Thesis (1-6)*

      *Note: Be aware that the university sets limits on the maximum number of these credits that can be counted towards the degree; see earlier in this chapter.

2. Upper-division (400-level) credits may be applied to the degree only with approval of the student's graduate study committee (GSC) via inclusion on the Graduate Studies Plan. In order to receive credit for coursework, students must receive a minimum grade of B in all 400-level courses, and a minimum grade of C in all 600-level courses, provided that the cumulative GPA does not drop below 3.00.

3. Within the first semester of study, each student must select a graduate study committee consisting of a minimum of three members (no more than five is recommended). Two of the three members must be full-time, tenure-track faculty in the Department of Biological Sciences. The committee chair will be the student’s research advisor if a full-time UAA faculty member. If the primary research advisor is an affiliate faculty member, the chair will be shared with a full-time UAA faculty member, and both will be designated as co-chairs. To be a co-chair, a non-UAA faculty member must have official affiliate status within the department.

4. A student’s GSC must meet each semester to review a student's progress. A progress report form must be signed by the GSC each semester and submitted to the chair of the GAC and filed with the departmental secretary. The departmental report of graduate student progress can be found online. In addition, an annual report on student progress must be filed with the Graduate School no later than May 15 of each year. Failure to file semester and annual progress reports will be taken as an indication of inadequate progress, and is grounds for probation and subsequent dismissal from the program.

5. Each student must submit an official Graduate Study Plan (GSP) form by the end of the first semester of graduate work. The official GSP formally establishes the specific program requirements that will, upon satisfactory completion, entitle the student to receive the graduate degree or certificate. This form must be approved by the student’s GSC and also be signed by the chair of the GAC, the department chair and the dean of the College of Graduate School.

6. All graduate students must remain in good standing throughout their degree. In order to remain in good standing in the program, students must:

Admission deadlines: All materials are due by March 15 for fall admission, and by November 15 for spring admission.
DOCTORAL PROGRAM, BIOLOGICAL SCIENCES

The department also offers PhD degrees in collaboration with the University of Alaska Fairbanks. Because application guidelines and requirements differ among the departments at UAF with which we collaborate, we recommend that you contact the faculty member at UAA with whom you would like to work, and discuss how to proceed.

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GRADUATE PROGRAMS, COLLEGE OF ARTS AND SCIENCES

CLINICAL PSYCHOLOGY

Social Sciences Building (SSB), Room 264, (907) 786-1795
http://psych.uxa.alaska.edu

The Master of Science in Clinical Psychology is designed to be responsive to the needs of a variety of Alaska mental health service settings and to meet prerequisites for licensing requirements at the master's level in psychology for the state of Alaska. The MS degree allows graduates to pursue either the Licensed Professional Counselor (LPC) or the Licensed Psychological Associate (LPA) license.

The goal of the program is to provide students with a well-rounded education that includes an evidence-based background in the best practices applicable to community mental health settings. The curriculum addresses local behavioral health needs in a context that is culturally sensitive and community focused. An important program goal is the recruitment and retention of nontraditional students.

MASTER OF SCIENCE, CLINICAL PSYCHOLOGY

ADMISSION REQUIREMENTS

Forms and instructions are available at: http://www.uaa.alaska.edu/psych/masters/admissions.cfm

1. Application deadline: April 1 for fall admission. This is the only opportunity for program admission each year.
2. Compliance with Admission Requirements for Master's Degrees as given in the University of Alaska Anchorage catalog.
3. Undergraduate training in general psychology; statistics or research; learning and cognition or strategies of behavior change; clinical psychology; and psychological testing. Examples of UAA courses that meet these requirements are PSY A111, PSY A260 or PSY A420; PSY A355 or PSY A445; PSY A425; PSY A473. Alternative courses and/or experiences will also be considered. Students without an undergraduate degree in psychology must have all prerequisites.
4. Submission of a letter of intent describing the applicant's interest and purpose in pursuing the MS degree in Clinical Psychology. The letter should address the reasons why the degree is being sought at this point in the applicant's professional development. See instructions on the website.
5. Submission of three professional letters of reference that address the applicant's suitability for the program.
6. Submission of Student Disclosure Form. See website.
7. Submission of a resume or vita that documents the applicant's vocational and professional experiences, academic achievements, research accomplishments, special projects, recognitions, and other information relevant to the applicant's qualifications for the program.
8. Submit copy of complete application packet to the Psychology program office.

Departmental approval for admission to graduate study is contingent on the applicant's qualifications, interests, and available space.

GRADUATION REQUIREMENTS

Students must meet all applicable university requirements for master's degrees given earlier in this chapter and achieve a grade of B or better in all coursework applied to the degree. It is required that students comply with the American Counseling Association (ACA) and the American Psychological Association (APA) ethical guidelines throughout program completion. Violation can result in immediate dismissal from the program.

PROGRAM REQUIREMENTS

1. Complete the following required courses:
   PSY A604 Biological and Pharmacological Bases of Behavior

**GRADUATE PROGRAMS, COLLEGE OF ARTS AND SCIENCES**

**Chapter 12  Page 260 University of Alaska Anchorage 2009-2010 Catalog**

Students apply to the joint PhD program in Clinical-Community Psychology at both UAA and UAF. All applicants submit identical application materials to both institutions; materials are collected and evaluated by the joint UAA/UAF PhD admissions committee which makes admissions recommendations to the dean of the UAF Graduate School. Applicants may specify a preference for either campus as a location for their studies. For more information about the application process, visit the program website.

**ADMISSION REQUIREMENTS**

1. Application deadline: Received by February 1 for the following fall admission. This is the only opportunity for program admission each year.
2. Compliance with the requirements for admission to graduate studies as detailed in the UAF catalog.
3. Minimum of a bachelor's degree (BS or BA or BEd); major in psychology or related field preferred. All requirements for bachelor's degree must be completed by June 30 prior to matriculation.
4. Minimum undergraduate grade point average of 3.00.
5. Minimum 3.00 grade point average in major and in all psychology courses.
6. Coursework in the areas of abnormal psychology, statistics, research methods and one of the following: personality, clinical psychology, social psychology or community psychology. All prerequisite coursework must be completed by June 30 prior to matriculation.
7. Letter of intent describing the applicant's interest and purpose in studying clinical-community psychology, the reasons why a PhD in Clinical-Community Psychology through the joint UAA/UAF program is sought at this point in the applicant's professional development, and demonstrating an understanding of relevant professional ethics.
8. Professional vita, including documentation regarding academic, research, and professional experiences; special projects and activities; and recognitions or honors.
9. Three professional letters of reference (preferably curriculum or research advisors, major course instructors with whom the student had contact in more than one course, and/or supervisors).
10. Disclosure statement, located at http://psyphd.alaska.edu/appprocedures.htm, must accompany the application to the program. Lifetime criminal background check must be submitted by students invited to a personal interview at least two weeks prior to the interview.

**GRADUATION REQUIREMENTS**

1. Complete the general university requirements for graduate programs as outlined in the UAF catalog.
2. Complete the program and additional requirements listed below.

**PROGRAM REQUIREMENTS**

Students must complete 26 required courses (for a total of 70 credits), 18 credits of dissertation, 18 credits of predoctoral internship, and 9 credits of electives. Students must accumulate a minimum of 115 credits to graduate and must have completed all required course work. Students entering the program with a master's degree in Psychology or related field must complete at least two years of full-time coursework, 18 credits of dissertation, and one year of predoctoral internship, all as approved by the student's advisory committee.

Students admitted to the PhD program have the option to obtain the UAA MS degree in Clinical Psychology.

1. Cultural experience: During their time in the PhD program, students must participate in a cultural experience as defined by program faculty. The actual experience will vary from year to year and may be adapted to individual student needs.
2. Complete the following required courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY A601</td>
<td>Clinical/Community/Cross-Cultural Integration Seminar (3 years, 1 credit per year)</td>
<td>3</td>
</tr>
<tr>
<td>PSY A602</td>
<td>Native Ways of Knowing</td>
<td>3</td>
</tr>
<tr>
<td>PSY A603</td>
<td>Alaskan and Rural Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY A604</td>
<td>Biological and Pharmacological Bases of Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSY A605</td>
<td>History and Systems</td>
<td>1</td>
</tr>
<tr>
<td>PSY A607</td>
<td>Cognition, Affect, and Culture</td>
<td>3</td>
</tr>
<tr>
<td>PSY A608</td>
<td>Ethics and Professional Practice</td>
<td>3</td>
</tr>
<tr>
<td>PSY A612</td>
<td>Human Development in a Cultural Context</td>
<td>3</td>
</tr>
</tbody>
</table>

**APPLICATION**

The PhD program in Clinical-Community Psychology with Rural, Indigenous Emphasis is a program jointly delivered and administered by the Departments of Psychology at the University of Alaska Fairbanks and the University of Alaska Anchorage. Although the degree is awarded by UAF, the only doctoral-degree-granting institution in the UA system, students can complete the entire degree program in residence at UAA. All program courses are co-taught across campuses via video conference and all program components are delivered by faculty at both campuses. The student experience is equivalent regardless of students' city of residence (Fairbanks or Anchorage). The program focuses on clinical, community, and cross-cultural psychology with an emphasis on indigenous and rural issues. As a UAA-UAF partnership, the program integrates the strengths and resources of both campuses to advance academic excellence, promote innovative and practical research, and provide solid graduate training in clinical-community psychology.

The program ensures that graduates have obtained the full range of clinical training mandated for doctoral-level clinical psychologists and will be adequately prepared for licensure as psychologists. Accreditation for the program will be sought from the American Psychological Association as soon as eligibility has been reached.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY A616</td>
<td>Program Evaluation and Community Consultation I</td>
<td>3</td>
</tr>
<tr>
<td>PSY A617</td>
<td>Program Evaluation and Community Consultation II</td>
<td>3</td>
</tr>
<tr>
<td>PSY A622</td>
<td>Multicultural Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>PSY A623</td>
<td>Intervention I</td>
<td>3</td>
</tr>
<tr>
<td>PSY A629</td>
<td>Intervention II</td>
<td>3</td>
</tr>
<tr>
<td>PSY A632</td>
<td>Community Psychology Across Cultures</td>
<td>3</td>
</tr>
<tr>
<td>PSY A633</td>
<td>Tests and Measurement in Multicultural Context</td>
<td>3</td>
</tr>
<tr>
<td>PSY A639</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>PSY A652</td>
<td>Practicum Placement - Clinical I</td>
<td>3</td>
</tr>
<tr>
<td>PSY A653</td>
<td>Practicum Placement - Clinical II</td>
<td>3</td>
</tr>
<tr>
<td>PSY A657</td>
<td>Quantitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PSY A658</td>
<td>Qualitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PSY A672</td>
<td>Practicum Placement - Community I</td>
<td>3</td>
</tr>
<tr>
<td>PSY A673</td>
<td>Practicum Placement - Community II</td>
<td>3</td>
</tr>
<tr>
<td>PSY A679</td>
<td>Multicultural Psychological Assessment I</td>
<td>3</td>
</tr>
<tr>
<td>PSY A681</td>
<td>Substances of Abuse in Alaska</td>
<td>1</td>
</tr>
<tr>
<td>PSY A682</td>
<td>Clinical Interventions for Substance Abuse</td>
<td>1</td>
</tr>
<tr>
<td>PSY A683</td>
<td>Substance Abuse Assessment and Treatment Planning</td>
<td>1</td>
</tr>
<tr>
<td>PSY A686</td>
<td>Predoctoral Internship</td>
<td>18</td>
</tr>
<tr>
<td>PSY A699D</td>
<td>Dissertation</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>3. Electives</td>
<td>9</td>
</tr>
</tbody>
</table>

4. A total of 115 credits is required for the degree.

**ADDITIONAL REQUIREMENTS**

**Clinical-Community Competency**

Students must demonstrate clinical-community competency before being allowed to register for dissertation credits. Clinical competency is demonstrated through preparation of a clinical-community portfolio that will be evaluated by an ad hoc committee consisting of four clinically trained faculty members (two per campus) who teach in the doctoral program. Criteria for the portfolio will be clearly defined and samples will be provided for students.

**Research Competency**

Students must demonstrate research competency before being allowed to register for dissertation credits. Research competency is demonstrated through preparation of a research portfolio that will be evaluated by an ad hoc committee consisting of four research-trained faculty members (two per campus) who teach in the doctoral program. Criteria for the portfolio will be clearly defined and samples will be provided for students.

**Advancement to Candidacy**

Before students are allowed to register for dissertation credits, they will be reviewed for performance by the joint UAA/UAF PhD committee, using existing university standards and forms for advancement to candidacy. Review will be based on faculty experience with students to date, submitted paperwork and student's progress through the program. Feedback from the review will be provided to the student by her or his advisor. Students must have passed either the research or clinical-community competency before being able to request advancement to candidacy.

**Doctoral Dissertation Proposal Defense**

Before commencing data collection for a dissertation project, students must defend their proposal to their dissertation committee. The defense must be based on a written dissertation proposal to be distributed to the dissertation committee after approval by the dissertation chair. The defense will be an oral presentation to the committee by the student and will not be a public meeting. For data-collection based dissertations, the proposal must also be approved by the UAA or UAF Institutional Review Board before data collection can commence.

**Doctoral Dissertation**

A doctoral dissertation must be carried out successfully and approved by a doctoral dissertation committee. The dissertation committee will consist of at least four members. It is recommended that the dissertation chair be on the same campus as the student. There must be at least one committee member from each psychology department at UAF and UAA. Content areas can vary widely, but must be related to clinical, community, or cross-cultural issues and applicable in Alaska settings.

**Advancement to Internship**

Students must apply to the local director of Clinical Training (DCT) before being permitted to apply for a predoctoral internship. DCTs will review the students’ coursework, assure that all prior milestones have been mastered (i.e., clinical-community competency, research competency, doctoral dissertation defense and advancement to candidacy) before approving the student for internship and before writing a letter of support for the student (typically required by all approved internship sites). Lifetime criminal background check must also be completed before students can advance to internship.

**Predoctoral Internship**

A full-time, one-year predoctoral internship is required. This internship should meet the criteria laid out by the American Psychological Association; selection of an Association of Psychology Postdoctoral and Internship Centers (APPIC)-approved internship is encouraged. Placements in Alaska are preferred, but not required.

Strict compliance with APA ethical guidelines is required throughout participation in the degree program. Violations can result in immediate dismissal from the program and failure to graduate. Completion of an annual disclosure statement is also required. Affirmative answers may result in dismissal from the program and failure to graduate. The disclosure statement may be viewed at [http://psuphd.alaska.edu](http://psuphd.alaska.edu).

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**COMPUTER SCIENCE**

Social Sciences Building (SSB), Room 154, (907) 786-1744/786-4824   
[www.math.uaa.alaska.edu](http://www.math.uaa.alaska.edu)

**MASTER OF SCIENCE, COMPUTER SCIENCE**

The UAA Department of Mathematical Sciences offers the opportunity to pursue a master’s degree in computer science while residing in the Anchorage area. The degree is available through a cooperative program with the University of Alaska Fairbanks (UAF) and the degree is awarded by UAF.

The program is designed to accommodate computer science professionals working in the Anchorage area; courses are offered in late afternoon and evening. For more information, contact the Department of Mathematical Sciences at UAA or visit our website at [www.math.uaa.alaska.edu](http://www.math.uaa.alaska.edu).
CREATIVE WRITING AND LITERARY ARTS

The Department of Creative Writing and Literary Arts offers a 45-credit Master of Fine Arts in Creative Writing and Literary Arts through a low-residency program. The MFA is a professional degree that prepares students for various careers, including those involving professional writing, teaching, and editing. The MFA in Creative Writing and Literary Arts combines mentorships with a residency period of approximately 12 days held on campus each summer. The residency session includes all faculty and students in an intensive schedule of workshops, classes, presentations, and readings. Students and mentors will then conduct one-on-one coursework at a distance during fall and spring semesters, supported by web resources. Mentors will include core faculty members and associate faculty who are established teachers and writers. Residency sessions also will feature annual guests from other disciplines, including scientists, artists, musicians, cultural leaders, and scholars. Students will participate in three residency sessions as part of their workshop credits. During a fourth residency, they will present and defend their thesis projects and give a public reading.

The department offers a studio program that balances the study and practice of craft, and the study of form and theory. Students will concentrate their studies in fiction, poetry, or literary nonfiction. During mentorships, students produce original works of literature as well as critical analyses of books chosen in collaboration with the mentor. The program offers — but is not limited to — special emphasis on writing about the relationships between people and place, landscape, nature, science and the arts, no matter where these relationships exist or how they are expressed. In their final year, students will prepare and present a thesis that includes a book-length work of original creative writing, a critical analysis, and an annotated bibliography. Through completion of the coursework and the thesis, students will develop and demonstrate an understanding of the history, traditions, theory, and contemporary issues in their genre and be able to situate their own work within that genre; articulate and demonstrate craft elements in their creative work; and develop and demonstrate the skills necessary for professional employment in literary fields such as writing, teaching, and editing.

Master of Fine Arts, Creative Writing and Literary Arts

Admission Requirements

See Admission Requirements for Master’s Degrees at the beginning of this chapter.

In addition, at the time of application, students must submit the following to the Department of Creative Writing and Literary Arts:

1. Personal essay (see website for topic and detailed instructions)
2. List of references, including email addresses; no need to send reference letters
3. Unofficial transcripts

4. Creative work: your best work
   - Fiction - One story (15 pages or less) or a chapter of a novel accompanied by a brief synopsis.
   - Poetry - Ten pages of poetry, no more than one poem to a page.
   - Literary nonfiction - Fifteen pages or less of an essay, memoir, or other creative work of nonfiction.

Please see the CWLA website for the most current and detailed application instructions.

All materials must be received by the Department of Creative Writing and Literary Arts by January 15 for earliest consideration for admission into the program. Summer admission only.

Admission will depend upon the evaluation of the entire application packet, with emphasis placed on the manuscript sample.

Graduation Requirements

See University Requirements for Master’s Degrees at the beginning of this chapter.

Program Requirements

1. Complete 15 credits in the student’s chosen genre from the following:
   - CWLA A652 Graduate Writer’s Workshop: Poetry 5
   - CWLA A662 Graduate Writer’s Workshop: Fiction 5
   - CWLA A672 Graduate Writer’s Workshop: Literary Nonfiction 5

2. Complete 15 credits of:
   - CWLA A690 Studies in Form and Theory (5) 15
   - This is an umbrella course and may be repeated with changes in subtitle.

3. Complete 5 credits of:
   - CWLA A695 Literary Practicum (1-5) 5

4. Complete 10 credits of:
   - CWLA A699 Thesis (5) 10
   - To produce a book-length creative work, annotated bibliography, and critical essay.

5. Successful defense of the thesis.

6. A total of 45 credits is required for the degree.

FACULTY

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Sherry Simpson, Associate Professor, afss3@uaa.alaska.edu
Ronald Spatz, Professor, afmrn1@uaa.alaska.edu
David Stevenson, Term Professor/Director, AFDDS1@uaa.alaska.edu

ENGLISH

Admission/Humanities Building (ADM), Room 101, (907) 786-4355
http://english.uaa.alaska.edu

Master of Arts, English

The Department of English offers a 36-credit Master of Arts in English emphasizing balanced coursework in literature, rhetoric, composition, and language theory. This degree prepares students both to pursue a more specialized PhD program and to take a variety of jobs in teaching, writing, and editing and business, professional, and technical communications. Apart from three required courses, Contemporary Critical Theory (ENGL A602), Composition Theory and Practice (ENGL A687), and Advanced Research and Professional Practices (ENGL A689), students enjoy significant flexibility in designing their degree. The degree culminates in the master's thesis, a thoroughly
researched and carefully argued article-length work that demonstrates the student’s academic achievement. Competitive teaching assistantships and research assistantships are also available. Contact the English Department for details, deadlines, and applications.

ADMISSION REQUIREMENTS

Admission to the MA in English requires a baccalaureate degree from a regionally accredited institution in the United States (or foreign equivalent) as defined by the Council of Higher Education, with at least a 3.00 undergraduate GPA. See Admission Requirements for Master’s Degrees at the beginning of this chapter for additional prerequisites. Complete application packets are due by July 1 for fall enrollment and November 1 for spring enrollment. TA/RA applications are due to the department by April 1 (for fall semester).

At the time of application, students must submit the following documents to the Master of Arts program, Department of English:

1. A three- to five-page application essay that addresses the student’s background in English, reasons for applying to Master of Arts program, specific area(s) of interest, learning goals, and professional objectives.
2. A recent sample (from within the past five years) of the applicant’s academic or professional writing. (NOTE: If no samples are available, the applicant should address why in the application essay.)
3. Two letters of recommendation from faculty who know the applicant’s academic work (or professional writing, when appropriate).
4. Official test scores for the Graduate Record Examination (GRE) general test. (The English subject test is not required.)
5. Official transcripts for all prior coursework.

Admission to the program is based upon the evaluation of the entire application packet in conjunction with the applicant’s undergraduate GPA.

Under-Prepared Students/Admission for Students without an Undergraduate Degree in English (or Related Discipline)

An applicant who does not have sufficient undergraduate experience in English, at the discretion of the department, may be required to take up to 9 credits of additional coursework at the undergraduate level. These preparatory courses do not count toward the MA degree and must be passed with a grade of B or better.

International Students

According to the UAA Admission Requirements for Master’s Degrees, applicants whose native language is not English must submit official TOEFL (Test of English as a Foreign Language) scores, and the department reserves the right to require TOEFL scores above the university requirement for graduate admission.

Teaching and Research Assistantships

Applicants to the graduate program who are also interested in an assistantship should contact the Department of English for an application packet. Students selected for teaching or research assistantships are required (1) to attend all training, informational, and evaluation sessions and (2) to meet the academic and professional standards set by faculty members. If these requirements are not met, students risk forfeiting their assistantships.

CANDIDACY REQUIREMENTS

See the beginning of this chapter for a description of the Graduate Studies Plan (GSP) and other university requirements. In consultation with his/her graduate committee, the student should submit a Graduate Studies Plan to the graduate English coordinator within the first four weeks of the semester the student plans to complete 15 degree-applicable credits. In addition, the student must complete three departmental requirements before advancing to candidacy:

1. Complete ENGL A602, ENGL A687, and ENGL A689;
2. Complete and have approved a suitable thesis proposal; and
3. Pass the department’s Graduate Qualifying Examination (GQE).

Generally, in a two-year plan of study, ENGL A602 and ENGL A687 should be taken during the first two semesters of the program, and ENGL A689 should be taken no later than the third semester. The GQE, taken when the student has completed no fewer than 15 and no more than 24 credits toward the degree, demonstrates the student’s disciplinary writing skill and preparation to write a successful thesis. The thesis proposal, a requirement of ENGL A689, must be approved by the graduate English coordinator, and students will not be allowed to enroll for ENGL A699 Thesis without completing ENGL A689 and having an approved thesis proposal. The Graduate Studies Plan and other paperwork may be found on the UAA Graduate Studies webpage.

THESIS REQUIREMENTS

The MA thesis is the culmination of the MA program. It is an extended writing project that demonstrates MA students’ ability to think creatively, research thoroughly, write effectively, and argue analytically at the graduate level. Students are expected to have conversations with faculty members about possible thesis topics during their coursework, and the thesis committee and thesis chair should be chosen in conversation with the graduate English coordinator. MA students are also expected to attend two theses defenses before scheduling their own defense. Additional thesis requirements follow:

1. The thesis should focus upon, and fall within, a disciplinary specialty covered by a tenured or tenure-track UAA English Department faculty member. (See the faculty profiles on the English Department webpage for descriptions of faculty members’ fields of expertise.)
2. The thesis should primarily address recognized disciplinary specialties (literary, rhetorical, cinematic, or electronic texts, concepts, and perspectives) and methodologies (literary critical and rhetorical analysis, qualitative or quantitative research). Secondarily, the project may incorporate cultural studies approaches, popular culture topics, or extra-canonical texts, if pertinent.
3. The thesis should articulate a critical approach to the topic according to a clearly defined literary theory, rhetorical approach, or linguistic consideration (a key question, idea, concept, theorist, or school of thought).
4. The thesis may be an extension of coursework, although it does not necessarily have to be, and while seminar papers may be revised for the thesis, under no circumstances is it permissible to turn in the same paper for both a course and the thesis.
5. The thesis must be developed out of the thesis proposal required in ENGL A689 and approved by the graduate English coordinator.
6. The completed thesis should be submitted to the thesis committee at least six weeks prior to the expected graduation date and at least two weeks prior to the thesis defense. See the English Department for specific dates and deadlines. If the thesis is not submitted with adequate lead time, and revisions are required, it is unlikely that the thesis can be completed in time to meet graduation deadlines.
7. Students must be aware that after the thesis defense is completed, and before the degree can be awarded, the thesis must also be:
   • Revised according to the instructions of the thesis defense committee (if any);
   • Submitted, reviewed and approved in the College of Arts and Sciences Dean’s Office;
   • Revised according to the CAS Dean’s Office’s instructions (if any);
   • Submitted, reviewed and approved by the dean of the Graduate School;
   • Revised according to the dean of the Graduate School instructions (if any); and
   • Submitted to the Graduate School for binding and archiving (required), and copyrighting (optional) according to current requirements.

Please see the English Department support staff for a detailed description of the procedures to follow after the thesis defense. The degree can be posted, and a student can officially graduate, only after meeting all additional paperwork and administrative requirements as determined by the Graduate School. The Office of
the Registrar completes the final degree check to ensure that all degree requirements have been met, including the resolution of any incomplete (I) or deferred grades (DF).

**CONTINUOUS REGISTRATION AND LEAVES OF ABSENCE**

Students have seven years to complete all requirements for the MA in English, and continuous registration is expected of all students throughout their courses of study. Students planning not to take coursework or register for thesis credit during any fall or spring semester (or summer, if they plan to use university facilities or consult with faculty during that time) prior to completion of their degree must submit the appropriate continuous registration paperwork and fee to ensure continuous enrollment during the degree-seeking period. Students not continually registered or on an approved leave of absence risk being removed from degree-seeking status. See the Related Master’s Degree Policies at the beginning of this chapter for additional details.

**GRADUATION REQUIREMENTS**

See University Requirements for Master’s Degrees at the beginning of this chapter. Application for Graduation deadlines are March 1 for summer graduation, May 1 for fall graduation, and September 15 for spring graduation. The Application for Graduation must be signed by the student’s graduate advisor and submitted with the application fee by the appropriate deadline. Late or incomplete applications are processed the following term, and students who apply for graduation but do not complete the requirements must reapply with the appropriate fee in a subsequent semester.

**PROGRAM REQUIREMENTS**

In general, MA degrees in English should follow the guidelines below, but the graduation requirements for individual students are based upon each student’s approved Graduate Studies Plan.

1. Complete the following 9 credits of core courses before advancing to candidacy:
   - ENGL A602 Contemporary Critical Theory 3
   - ENGL A687 Composition Theory and Practice 3
   - ENGL A689 Advanced Research and Professional Practices 3

2. Complete 6 credits from the following literary periods:
   - ENGL A607 Studies in American Literature (3)
   - ENGL A615 Studies in Medieval Literature (3)
   - ENGL A620 Studies in Renaissance Literature (3)
   - ENGL A625 Studies in Neoclassical Literature (3)
   - ENGL A630 Studies in the Literature of Romanticism (3)
   - ENGL A640 Studies in the Victorian Period (3)
   - ENGL A642 Studies in the Modernist Period (3)
   - ENGL A643 Studies in Contemporary Literature (3)

3. Complete 6 credits from the following specialized studies:
   - ENGL A636 Studies in Modern Criticism (3)
   - ENGL A651 Studies in Poetry (3)
   - ENGL A661 Studies in Fiction (3)
   - ENGL A671 Studies in Nonfiction Prose (3)
   - ENGL A676 Studies in Texts and Cultures (3)
   - ENGL A681 Studies in Drama (3)

4. Complete 6 credits from the following composition, rhetoric, and language theory courses:
   - ENGL A606 Studies in the Development of the English Language (3)
   - ENGL A680 Studies in the History of Rhetoric (3)
   - ENGL A685 Studies in Rhetorical Strategy (3)
   - ENGL A688 Topics in Professional Writing (3)

5. Complete 6 elective credits from any category above. Elective courses may include, with the approval of the committee chair:
   - Up to 6 credits of 400-level ENGL courses (3-6),
   - ENGL A698 Individual Research (1-6)

6. Complete at least 3 credits of ENGL A699 Thesis 3
   Completion of the MA thesis in English includes an oral thesis defense and thesis approval at the department, Dean, and Associate Vice Provost level.

7. Total minimum credits required for the MA in English 36

Note: Most graduate courses are offered on a two-year schedule, except for ENGL A602 (every spring), and ENGL A687 and ENGL A689 (every fall semester). A tentative course rotation schedule is available from the English Department.

**FACULTY**

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The College of Business and Public Policy offers the Master of Business Administration (MBA) degree in general management. The MBA program is accredited by the Association to Advance Collegiate Schools of Business (AACSB International).

**Program Policies and Administration**

Students must maintain a minimum 3.00 GPA on all coursework in the MBA program, including foundation courses. A grade of C in a graduate course is minimally acceptable if it is offset with an A grade in another course. Students with a GPA below 3.00 will be placed on probation, and may be dropped from the program if the GPA is not brought up to 3.00 within a reasonable time period. Students are also expected to make reasonable progress toward completion of the degree, and may be placed on probation if they do not complete at least one course applicable to the MBA within any 12 month period. All of the advanced MBA course requirements (core plus electives) must be completed within seven calendar years.

The faculty reserves the right, where warranted by an evaluation of a student's progress and apparent knowledge, to require additional coursework or other preparation to ensure that the degree recipient possesses adequate professional skills and capabilities. This includes the ability to reason and communicate effectively, both verbally and quantitatively.

The MBA program is the responsibility of the college's graduate faculty, which acts as a policy-setting body and as an appeals board. The complete MBA program policies, requirements, and procedures may be obtained from the college's MBA Office. Students are expected to be familiar with and adhere to both the MBA program requirements and procedures, and the general UAA requirements for graduate degrees.

Full program information, including application forms and procedures, may be obtained by contacting the:

- MBA Office
- College of Business and Public Policy
- University of Alaska Anchorage
- 3211 Providence Drive
- Anchorage, AK 99508
- U.S.A.
- Telephone: (907) 786-4129
- Facsimile: (907) 786-4119

**Master of Business Administration, General Management**

The MBA in General Management is designed to provide students with the perspectives and skills which will prepare them for increasingly significant managerial leadership roles in their organizations.

The focus of the program is on management practice, but this focus is based on a recognition that sound practice requires a thorough understanding of underlying management principles and techniques. The MBA graduate should be thoroughly grounded in state-of-the-art management theory and practice, aware of the complex global environment in which modern organizations operate, adaptive to change, articulate, and ethical in dealing with others.

The program serves both full- and part-time students, and classes are generally scheduled for evenings and Saturdays. While most students are from the greater Anchorage area, the program also attracts students from the rest of the United States and from foreign countries, particularly from those on the Pacific Rim.

Students may enter the program in either the fall or spring semester. A limited number of courses are also offered during the summer. Current application deadlines, as well as other detailed program information, may be obtained by contacting the College of Business and Public Policy MBA Office.

**Admission Requirements**

Applicants must meet both the Admission Requirements for Master’s Degrees and the College of Business and Public Policy requirements outlined below.

Admission to the MBA program is restricted to students holding a baccalaureate degree from an AACSB or regionally accredited university, or foreign equivalent. In general, two formulas using undergraduate performance as measured by the GPA on a 4.00 scale and the score on the Graduate Management Admission Test (GMAT) will be used to assess an applicant's potential for success in the MBA program:

1. Undergraduate GPA x 200 + GMAT > 1100
   or
2. Upper division GPA x 200 + GMAT > 1100

GMAT waivers may be considered for applicants meeting any of the following criteria:

1. Hold another master's degree from an accredited university.
2. Have a professional designation beyond the baccalaureate (such as CPA, CFA).
3. Have an undergraduate GPA of 3.00 or higher.

Additional indicators for predicting success in individual cases may be provided through documented performance in extracurricular activities, evidence of creativity and leadership, and a record of accomplishment in business or other professional activity.

Applicants whose native language is not English are required to score at least 550 on the TOEFL examination or otherwise demonstrate competency in English. Students may apply to enter the program at the beginning of either the fall or spring semester. There currently is no specific application deadline, but students should apply before the start of their first semester. In some cases students may be admitted conditionally while their paperwork is completed. Students in conditional admission status are restricted in the number of courses that they can take before being fully admitted.

**General Management Program Structure**

The requirements consist of two parts, foundation courses and advanced courses in business or accounting or relevant experience and expertise. In key functional areas of business, additional foundational coursework may be required. These foundation courses are:

- ACCT A601 Accounting Foundations for Executives 3
- BA A601 Business Statistics and Data Analysis 2
- BA A603 Fundamentals of Finance 3
- BA A604 Marketing Management 3
- BA A606 Fundamentals of Production/Operations Management 2
- ECON A602 Introduction to Economics for Managers 3

In some cases, students may have fulfilled the core foundation requirements in part through undergraduate courses, or some students holding undergraduate business or accounting degrees may not have
covered all of the foundation material in their degree program, or some of their foundation work may be dated in comparison to modern business practice. Thus, foundation requirements will be evaluated on an individual student basis to ensure each student is properly prepared for the more advanced MBA courses. Foundation coursework may be waived or added to an individual student’s program based on previous preparation.

In addition, entering students are expected to have basic mathematical, computer, and communication skills. Students deficient in basic skills will be required to improve them through independent study, noncredit courses, undergraduate course work, and/or seminars or workshops.

The main body of the MBA curriculum consists of seven core courses (21 credits) and 15 credits of curricular options for a total of 36 credits of advanced coursework:

**Core Courses** (21 credits):
- ACCT A650 Seminar in Executive Uses of Accounting 3
- BA A632 Organizational Behavior and Human Resource Management 3
- BA A633 Problem Formulation and Decision Analysis 3
- BA A635 Current Marketing Issues Seminar 3
- BA A636 Financial Decision Making 3
- BA A655 Strategic Management Seminar 3
- CIS A692 Management Information Systems Seminar 3

In certain cases, where warranted by previous education or experience, an MBA core course may be waived and an elective substituted.

**Curricular Options** (15 credits):

A. Executive Focus (3 credits): Select at least one course from the following:
- BA A628 Executive Leadership 3
- BA A629 Negotiation & Conflict Management 3
- BA A631 Business Environment Analysis 3
- BA A634 Organizational Design and Development 3

B. Elective Coursework (9 credits)
Students can personally design an area of concentration from courses offered within the College of Business and Public Policy that focus on: Management Theory and Practice; Marketing; Finance; International Business & Global Economics; Management Information Systems; Logistics and Supply Chain Management; or Public Administration. In addition, elective coursework can be selected from graduate courses offered by other colleges and disciplines and/or graduate courses in programs offered at other accredited universities.

C. Capstone course requirement (3 credits)
Provides the opportunity to integrate acquired knowledge of business administration. Select one course from the following depending on preferred nature of experience (practical or academic) and application (applied or theoretical):
- BA A656 Management Project 3
- BA A686 Management Simulation 3
- BA A695 Graduate Internship 3
- BA A698 Individual Research 3

**Thesis Option:**
- BA A699 Thesis 6

Students (especially those who are considering pursuing a PhD degree) may elect to complete a master’s thesis.

**FACULTY**
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- Fred Barbee, Associate Professor, AFRB@cbpp.uaa.alaska.edu
- Ken Boze, Professor, AFKMB@uaa.alaska.edu
- Yong Cao, Associate Professor, CAO@cbpp.uaa.alaska.edu
- Ted Eschenbach, Professor Emeritus, AITGE@uaa.alaska.edu
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- Leyuan You, Assistant Professor, LeyuanY@cbpp.uaa.alaska.edu

**LOGISTICS**
Edward & Cathryn Rasmuson Hall (RH), Room 309, (907) 786-4101
www.cbpp.uaa.alaska.edu/msgscm

**MASTER OF SCIENCE, GLOBAL SUPPLY CHAIN MANAGEMENT**
The MS GSCM degree is earned through advanced coursework and study at the graduate level. The focus is on management of global supply chain systems with an emphasis on managerial leadership, information technology and international business practices. The degree is comprised of five courses, 6 credit hours each, to be completed over five consecutive semesters. Time to completion is approximately 20 months for a total of 30 credit hours.

Classes meet exclusively on weekends. Each course requires four weekend meetings per semester. Between weekends, students are engaged in research and online discussions with the instructor and one another. Students apply their coursework to a host company in order to attain hands-on experience and demonstrate value to their hosts.

Classes are kept to a maximum of 25 students and each student proceeds through the five courses in the same order as part of a cohort group.

The degree is a stand-alone program that is not subsidized by the State, and therefore normal tuition fees do not apply. Please contact the College of Business & Public Policy at (907) 786-4101 for tuition and pre-application information.

**PROGRAM OUTCOMES**
Graduates of the MS GSCM program will be able to assess logistical activities and supply chain relationships in a strategic context within international and cross-cultural business environments. They will be able to demonstrate the role of leadership and team building in fostering and enhancing supply chain integration. Graduates will also be able to apply information technology as a means to manage knowledge; and use financial and cost accounting techniques to effectively measure logistical value within and across companies. Finally, graduates will have developed an appreciation for the complex nature of global supply chain management in an increasingly integrated world that is subject to rapid change.

**ADMISSION REQUIREMENTS**
Applicants must have a minimum of seven years of work experience in some function of logistics or supply chain management and a bachelor’s degree in any discipline. Exceptions to work experience may be made for individuals with a bachelor’s degree in logistics, supply chain management, or a discipline comprised of courses that are closely related to logistics and supply chain management.
In addition, applicants must provide two letters of recommendation, undergraduate degree transcripts, and must complete the Graduate Management Admission Test (GMAT). The minimum acceptable GMAT score is determined by:

\[(\text{Undergraduate GPA} \times 200) + \text{GMAT score} > 1050.\]

Conditional admission may be granted if the GMAT has not been completed, but all other required information has been provided. However, the GMAT must be completed with the minimum acceptable score before the start of the third course in the program.

Applicants whose native language is not English are required to score at least 550 on the TOEFL examination or otherwise demonstrate competency in English.

**ACADEMIC PROGRESS**

A minimum GPA of 3.00 is required in order to successfully complete the program. A grade of C is minimally acceptable and must be offset with a grade of A in one of the other courses. After the third grade of C, the student will be required to withdraw from the program.

The cohort group format is designed to allow students to develop a working relationship with one another, undertake group activities and research, and share professional experiences with one another.

The MS GSCM program is the responsibility of the Logistics Department, which acts as its policy-making body, and as an appeals board. Students are expected to be familiar with and adhere to the MS GSCM program’s requirements and procedures as well as to the general UAA admissions and graduate degree requirements.

Full program information, including application forms and procedures may be obtained by contacting:

- Student Information Office
- College of Business & Public Policy
- University of Alaska Anchorage
- 3211 Providence Drive
- Anchorage, AK 99508
- U.S.A.
- Telephone: (907) 786-4101
- Facsimile: (907) 786-4119

**PROGRAM REQUIREMENTS**

1. Complete the following requirements:
   - LOG A661 Supply Chain Strategic Planning 6
   - LOG A662 Supply Chain Knowledge Management 6
   - LOG A663 International Supply Chain Management and Marketing Strategies 6
   - LOG A664 Supply Chain Management Leadership 6
   - LOG A665 Supply Chain Measurement* 6
   - *A final research project is required as part of the degree requirements.

2. A total of 30 credits is required for the degree.

**FACULTY**

- Elisha (Bear) Baker, IV, Interim Dean, AFERB1@cbpp.uaa.alaska.edu
- W. Oliver Hedgepeth, Associate Professor, AFWOH@cbpp.uaa.alaska.edu
- Philip Price, Associate Professor/Chair, PHILIPP@uaa.alaska.edu
- Darren Prokop, Associate Professor, AFDJP1@cbpp.uaa.alaska.edu

**GRADUATE CERTIFICATE, SUPPLY CHAIN MANAGEMENT**

University of Alaska Anchorage College of Business and Public Policy is partnering with Boise State University to offer the Graduate Certificate in Supply Chain Management. The certificate requires three core courses, Logistics, Supply Chain Management, and Supply Chain Measurement; one specialty course, Radio Frequency Identification, Travel and Transportation, or Lean Operations; and a capstone course for a total of 15 credit hours. Classes are delivered online by expert faculty from one of the partnering institutions. All discussion, assignments, and tests will be handled online. Each university will be allotted seats in each course for a maximum enrollment of 30 students per course. Students will move through the program as a cohort.

The certificate will be offered by each institution at the same cost. Courses from any of the partnering institutions serve as resident credit at UAA. Please contact the College of Business & Public Policy at (907) 786-4101 for tuition and pre-application information.

**PROGRAM OUTCOMES**

A student who successfully completes the Supply Chain Management Graduate Certificate program will apply systems thinking and design principles to effectively and efficiently manage global supply chains, demonstrating:

1. An understanding of pressing organizational challenges and environmental constraints.
2. The integration and management of processes across the supply chain.
3. Leadership and management of the principles of supply chain components.
4. Ability to conduct a cogent analysis of the current state of a supply chain system.
5. An understanding of future trends.
6. Implementation of supply chain management principles.
7. Verbal and written communication skills required in supply chain management.
8. Mastery of team skills required to manage effective supply chains.

**ADMISSION REQUIREMENTS**

Students with a baccalaureate degree who have professional experience in the field of supply chain management and meet all university admission requirements may be admitted to the graduate certificate program.

Students must provide transcripts from all institutions attended, a statement of job interest, a statement of job experience and TOEFL scores (at least 550) for those applicants whose native language is not English.

See the beginning of this chapter for Admission Requirements for Graduate Certificates.

**ACADEMIC PROGRESS**

A minimum GPA of 3.00 is required in order to successfully complete the certificate. A grade of C is minimally acceptable and must be offset with a grade of A in one of the other courses. After the third course grade of C the student will be required to withdraw from the program.

The cohort format is designed to allow students to develop a working relationship with one another, undertake group activities and research and share professional experiences with one another. The Supply Chain Management Graduate Certificate is the responsibility of the Logistics Department, which acts as its policy-making body and as an appeals board. Students are expected to be familiar with and adhere to the certificate requirements and procedures as well as to the general UAA admissions and graduate certificate requirements provided in this chapter.

Full program information, including application forms and procedures, may be obtained by contacting:

- Student Information Office
- College of Business & Public Policy
- University of Alaska Anchorage
- 3211 Providence Drive
- Anchorage, AK 99508
- U.S.A.
- Telephone: (907) 786-4101
- Facsimile: (907) 786-4119
GRADUATE PROGRAMS, COLLEGE OF BUSINESS AND PUBLIC POLICY

PROGRAM REQUIREMENTS

1. Complete the following requirements (15 credits).
   Meet with an advisor to develop a program plan.

   Core Courses (9 credit hours)
   LOG A601 Supply Chain Management Systems  3
   LOG A602 Logistics  3
   LOG A603 Measurement in Supply Chains  3

   Specialty (6 credit hours)
   Choose from:
   LOG A604 Radio Frequency Identification (3)
   LOG A605 Transportation Systems Management (3)
   or
   LOG A607 Radio Frequency Capstone (3)
   LOG A606 Lean Operations (3)
   or
   LOG A608 Travel/Transportation Capstone (3)
   LOG A609 Supply Chain Quality Capstone (3)

2. A total of 15 credits is required for the certificate.

FACULTY

UAA FACULTY

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PARTICIPATING FACULTY FROM PARTNER INSTITUTIONS

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PUBLIC ADMINISTRATION

Edward & Cathryn Rasmussen Hall (RH), Room 309, (907) 786-4101
www.mpa.alaska.edu

The Master of Public Administration (MPA) degree provides students with knowledge and skills needed for professional careers in public service. MPA students learn new analytical techniques and add to their expertise in organizational and program management, policy analysis, and related areas. Emphasis is on public policy, management, and administrative issues. Students specialize in one of the following emphasis areas: Public Management, Policy Analysis, Health Administration, or Criminal Justice.

The Public Management emphasis is designed for those working for, or planning to work for, executive agencies of local, state, and federal government; for private, nonprofit organizations; and in government relations units of private corporations. It provides basic tools of public management, understanding of the structure and processes of public organizations, and the history and context of the field of public administration.

The Policy Analysis emphasis is intended to provide the professional staffs of executive and legislative departments of local, state, and federal governments with the capability to analyze the effects of a broad range of actual or hypothetical government policies. It emphasizes the application of economic analysis and other quantitative and qualitative methods to Alaska and national policy issues.

The Health Administration emphasis prepares students to function as health administrators in state, local, or federal agencies, nonprofit organizations, and private companies that do health-related work. Students develop knowledge and skills necessary for effective public management in the health care area: planning, decision-making, and managing people, money and programs.

The Criminal Justice Emphasis will provide graduates with the theoretical basis for management careers in the field of criminal justice. Students will develop knowledge and skills necessary for effective public management: planning and decision making, managing people, money and programs. These skills will be applicable in a wide spectrum of employment areas in law enforcement and the criminal justice system; and will also prepare graduates seeking to earn a terminal degree in justice administration.

Students who have received the MPA degree may earn a Master of Business Administration (MBA) degree by completing a minimum of 21 resident credits not used for any other previous degree. Specific course requirements are at the discretion of the MBA director and will be reflected in the student’s MBA Program Plan prior to beginning course work toward this second degree.

MASTER OF PUBLIC ADMINISTRATION

ADMISSION REQUIREMENTS

Students enter the MPA program with a bachelor’s degree from a variety of educational backgrounds. Accordingly, the program is designed to meet the needs of students with a wide mix of professional backgrounds and interests.

Students interested in the Master of Public Administration program may accumulate up to 9 credits in the program as a non-degree-seeking student before applying for admission to the program. To apply for admission, applicants must meet both the University of Alaska Anchorage Admission Requirements for Master’s Degrees and the Department of Public Administration requirements outlined below.

1. Students applying for admission to the MPA program must submit a 300-500 word statement on their career goals and how the MPA degree relates to them.
2. Applicants must submit a professional resume or vita.
3. In addition, applicants must meet one of the following criteria:
   a. Have a combined undergraduate GPA plus GRE Analytic score totaling 7.0 or higher. The GRE test is not required for students having already earned a master’s degree from a regionally accredited institution in the United States or a foreign equivalent, provided they have an undergraduate GPA of 3.00.
   b. Have an undergraduate GPA of 3.00 and have taken an introductory course in government (or demonstrate knowledge by taking an approved UAA college-level achievement examination)
   c. Complete two PADM core courses with a grade of B or better and complete all PADM core course prerequisites (BA A273, ECON A201 and A202 or ECON A602, and PS A101) or their equivalents.

Detailed admission standards available on our website: www.mpa.alaska.edu.

ACADEMIC PROGRESS

To maintain satisfactory progress toward the degree, a student in the MPA program is expected to complete a minimum of 6 semester credits each calendar year, commencing with the first term of enrollment. The 6 semester credits may consist of either undergraduate prerequisite courses or graduate program courses. Failure to comply with the 6 credit minimum each calendar year may result in the student being dropped from the program.

GRADUATION REQUIREMENTS

See University Requirements for Master’s Degrees at the beginning of this chapter.
2. Complete one of the following emphasis areas:

**Public Management Emphasis** (15 credits)

- PADM A624 Human Resources Administration
- Plus one 600-level elective
- Choose three courses from the following:
  - NS A626 Principles of Epidemiology (3)
  - NS A658 Public Health Policy (3)
  - NS A681 Analysis of Health Services (3)
  - NS A682 Administrative Services (3)
- Plus three 600-level electives

**Policy Analysis Emphasis** (15 credits)

- JUST A630 Justice Administration Theory and Practice
- JUST A625 Seminar in Criminal Violation
- JUST A630 Justice Administration Theory and Practice
- JUST A670 Administrative Law
- Choose one of the following:
  - JUST A640 Corrections Theory and Research
  - JUST A650 Policing Theory and Research
- Plus one 600-level elective

**Health Administration Emphasis** (15 credits)

- PADM A624 Human Resources Administration
- Plus one 600-level elective
- Choose three courses from the following:
  - NS A626 Principles of Epidemiology (3)
  - NS A658 Public Health Policy (3)
  - NS A681 Analysis of Health Services (3)
  - NS A682 Administrative Services (3)
- Plus three 600-level electives

**Criminal Justice Emphasis** (15 credits)

- JUST A625 Seminar in Criminal Violation
- JUST A630 Justice Administration Theory and Practice
- JUST A670 Administrative Law
- Choose one of the following:
  - JUST A640 Corrections Theory and Research
  - JUST A650 Policing Theory and Research
- Plus one 600-level elective

3. Candidates for the MPA who do not have public administration work experience must complete one additional course (3 credits):

- PADM A620 Internship in Public Administration/Policy (1-3)

4. Take the core comprehensive examination after completing the core courses. This examination must be passed before the student may enroll in the capstone course.

5. Complete the capstone project course (3 credits):

- PADM A659 Public Administrative Capstone

6. A total of 36-39 credits is required for the degree.

**FACULTY**

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- Lee Huskey, Professor, AFLH@cbpp.uaa.alaska.edu
- Greg Protasel, Associate Professor, AFGJP@uaa.alaska.edu
- Sheila Selkregg, Assistant Professor, sheilas@cbpp.uaa.alaska.edu

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**COLLEGE OF EDUCATION**

**Graduate Programs, College of Education**

**Professional Studies Building (PSB), Room 209, (907) 786-4401**

www.uaa.alaska.edu/coe

The University of Alaska Anchorage is in full compliance with the institutional reporting requirements mandated in Title II of the Higher Education Act Amendments of 1998. Please contact the College of Education for a copy of the completed report.

The College of Education comprises a community of educators dedicated to improving the quality of education. The mission of the College of Education is to prepare educators and support the lifelong learning of professionals to embrace diversity and to be intellectually and ethically strong, resilient, and passionate in their work with Alaska’s learners, families, educators, and communities. Our programs emphasize the power of learning to transform people’s lives. Across the university, faculty members teach professional educators to work in diverse settings, to form and sustain learning partnerships, and to provide learning across the life span. We are confident that this preparation will result in educators’ significant contributions to society.

The College of Education promotes the following core values in their collegial interactions to ensure that program graduates exhibit:

- **Intellectual Vitality:** Professional educators examine diverse perspectives, engage in research and scholarship, contribute to knowledge and practice, and apply innovations in technology.
- **Collaborative Spirit:** Professional educators generate, welcome, and support the collaborative relationships and partnerships that enrich people’s lives.
- **Inclusiveness and Equity:** Professional educators create and advocate for learning communities that advance knowledge and ensure the development, support, and inclusion of peoples’ abilities, values, ideas, languages, and expressions.
- **Leadership:** Professional educators are committed to the highest standards of ethical behavior in their roles, using professional expertise to improve the communities in which they live and work, and demonstrating the ability to translate theories and principles into transformative educational practice.

We believe that learning must be designed, delivered, and evaluated within the contexts of these core values and program outcomes.

The College of Education offers undergraduate and graduate curricula and programs designed to prepare personnel for various professional roles related to education in a variety of learning environments. The College of Education is accredited by the National Council for Accreditation of Teacher Education (NCATE). Our professional preparation programs are approved by the Alaska Department of Education and Early Development and are based on NCATE standards.

The Alaska Department of Education and Early Development issues certificates and endorsements under the “approved program” process for certification. The University of Alaska Anchorage recommends individuals to the commissioner of Education and Early Development for certification or endorsement after successful completion of one or more of the approved programs. Only the dean of the College of Education is authorized to recommend candidates for the appropriate certificate or endorsement.

In each of the college’s curricula and programs, candidates are introduced to fundamental issues of education in the contemporary world through courses designed to develop perspective and understanding of the relationship of education to society. Courses provide theory and practice in the development of instructional materials and an understanding of methods of instruction. Many courses and programs are offered through distance delivery methods. The college offers high-quality, distance-delivered course work in order to improve access for rural students and provide flexible scheduling for practicing educators. Additionally, the college partners with UAA community campuses in optimizing the use of
Graduate Programs, College of Education

Committed to the highest standards of professional ethics.

Knowledgeable in the appropriate subject matter and skilled in teaching and learning in K-12 classrooms.

Excited about teaching and learning in K-12 classrooms. The program integrates coursework and field experiences to meet the Alaska Department of Education and Early Development. Only courses with a grade of C or higher will be applied to meet certification or endorsement requirements. Some programs require a minimum grade of B. In addition, candidates must demonstrate professional behaviors and dispositions consistent with the College of Education’s Conceptual Framework as well as abide by the UAA Student Code of Conduct and the Code of Ethics and Professional Teaching Standards adopted by the Alaska Professional Teaching Practices Commission. These documents are available on the College of Education website.

Applicants admitted to a graduate program work with an advisor from the major and related areas. The advisor develops a Graduate Studies Plan with each candidate based upon transfer credits, program requirements, and elective courses. The program may or may not include certification or endorsement requirements.

The College of Education has three academic departments:

1. The Department of Teaching and Learning with programs in school-age care, early childhood education, elementary education, and secondary education. (907) 786-4481
2. The Department of Counseling and Special Education with programs in counselor education, special education, early childhood special education, and opportunities in speech and language pathology. (907) 786-6317
3. The Department of Educational Leadership with programs in educational leadership (principal, superintendent, and teacher leadership preparation). (907) 786-4450

Professional and Continuing Education (PACE)

http://coe.uaa.alaska.edu/pace

Quality professional learning enriches the knowledge and skills of educators and improves the educational experiences of all students. Therefore, the Office of Professional and Continuing Education (PACE) partners with UAA academic units, schools, professional societies, and other organizations to support learning opportunities such as 500-level courses and academies. The flexible structure of PACE allows for rapid response to the dynamic learning needs of educators and related-services professionals around the state.

Master of Arts in Teaching

http://coe.uaa.alaska.edu/secondary

The Master of Arts in Teaching (MAT) degree is intended to prepare students for a career in teaching. It is an intensive experience for the dedicated graduate student who has both academic preparation in a content area taught in the public schools and significant life experience. The program integrates coursework and field experiences to meet Alaska and national teacher education standards. Graduates of the MAT program are prepared to become educators who are:

- Excited about teaching and learning in K-12 classrooms.
- Committed to a life of thoughtful practice.
- Dedicated to working with all children, their families, and support personnel.
- Knowledgeable in the appropriate subject matter and skilled in how to teach it.
- Committed to the highest standards of professional ethics.

Student Outcomes

Student outcomes for the program are based on the Alaska Beginning Teacher Standards located at www.coe.uaa.alaska.edu/dtl/resources.cfm.

Admission Requirements

See the beginning of this chapter for Admission Requirements for Master’s degrees. The application deadline for the MAT is October 1 for applicants seeking spring admission and February 20 for applicants seeking summer admission. Students must apply for admission to both the University of Alaska Anchorage and the College of Education. Students are admitted and proceed through the program as a cohort. An application packet is on the website.

Applicants for the MAT degree must meet subject area requirements for a teaching endorsement.

Approved secondary (7-12) teaching endorsement areas for the MAT are:

- Business Education
- English as a Second Language
- English/Language Arts
- Family and Consumer Science
- General Science
- Mathematics
- Social Studies
- Technology Education
- World Languages (this endorsement is for a specific language)

Approved K-12 teaching endorsement areas for the MAT are:

- Music
- Physical Education

Note: Teaching endorsements must be completed in accordance with the approved standards-based Initial Endorsement Content Preparation Review on file in the College of Education.

Undergraduates interested in applying to the MAT should see a College of Education faculty advisor early in their program to ensure that subject matter courses taken to fulfill undergraduate degree requirements meet the content preparation standards required by the college’s accrediting association. Additional subject matter coursework may be required before an applicant can be accepted to the MAT. Therefore, individuals with baccalaureate degrees who are considering a career change to become a teacher should see a faculty advisor at least one year before applying to the program.

Applicants are expected to have basic technology skills such as general computer use, email, word processing, Internet research, etc.

Applicants must also provide documentation to the College of Education of qualifications in the following three areas:

1. Academic preparation and demonstrated content knowledge competency in the endorsement area sought.
2. Successful experience with adolescents.
3. Dispositions for teaching, including collaborative skills, fairness, the belief that all students can learn, and the ability to work with adolescents and families from diverse backgrounds.

Admission to the program is competitive and based on a two-part review of the applicant’s credentials. The first committee review is preliminary and based on the documentation submitted by the applicant. If the applicant is recommended as a strong potential candidate for admission, then an admissions interview is scheduled. Applicants’ knowledge, skills and dispositions as documented in the MAT application packet and demonstrated in the admissions interview will be holistically evaluated with two exceptions:

- Passing scores on the Praxis I examination. Scores are determined by the Alaska State Board of Education and Early Development.
Inclusive Classrooms for All Children require a minimum grade of B.

Stage I: Preliminary Review
Applicants must complete the MAT application packet available from the College of Education. It must include the following:
1. Verification of a baccalaureate with an expected minimum of a 2.75 GPA in the last 30 credits of the baccalaureate degree or subsequent graduate-level coursework. Undergraduates may apply during senior year with anticipated graduation in May.
2. Passing scores on the Praxis I, a test of basic skills in reading, writing, and mathematics. This test is also required by the State of Alaska; the Alaska State Board of Education and Early Development determines passing scores. Contact the College of Education for the passing scores.
3. Scores from the relevant content knowledge Praxis II test. Competitive scores will be at the national median or higher.
4. Demonstrated evidence of content area preparation in the teaching area for which the applicant is seeking endorsement, including the standards-based Initial Endorsement Content Preparation Review that has been signed by an appropriate College of Education faculty advisor.
5. An essay addressing questions based on the MAT program purpose and outcomes, as described in the application packet.
7. Two letters of recommendation that speak directly to the applicant's qualifications to be admitted to the MAT degree and her/his choice of teaching as a career. At least one of the letters should address the academic expertise in the endorsement area.

Stage II: Admissions Interview
8. After the preliminary review of the required application materials is completed, all applicants who are recommended as potential candidates will be interviewed by an Admissions Committee. Admission to the MAT degree program is competitive, and final decisions will be based upon consideration of all data. Admission to the MAT program does not guarantee an internship placement (see note under Professional Field Experiences).

ADDITIONAL REQUIREMENTS
Applicants accepted for admission must provide the following documents.
9. A completed State of Alaska Student Teacher Certification Authorization application form. The State of Alaska requires fingerprinting and a background check prior to internships in the public schools. The College of Education requires compliance with specific background clearance policies and procedures for candidates participating in university-sponsored fieldwork. Failure to pass the criminal history background check or failure to comply with the College of Education background check requirements will result in removal from the program. More information is located at http://coe.uaa.alaska.edu/background.cfm.
10. Documentation of a current physical examination.

ACADEMIC PROGRESS
Students enrolled in the MAT must maintain a minimum GPA of 3.00, with no individual course grade lower than a C, or B where specified. EDFN A478 Issues in Alaska Native Education, K-12, EDFN A649 Capstone Seminar: Inquiry in Teaching and Learning, and EDSY A482 Inclusive Classrooms for All Children require a minimum grade of B. Courses with grades less than a C, including those used to demonstrate content knowledge on the Initial Endorsement Content Preparation Review, may not be applied to meet certification or endorsement requirements. Satisfactory progress on all standards must be demonstrated in the internship courses to remain in the program.

GRADUATION REQUIREMENTS
See the beginning of this chapter for University Requirements for Master’s Degrees.

TEACHING ENDORSEMENT AND GRADE LEVEL OPTIONS
There are two grade level options in the MAT:
A. Secondary Education (7-12)
B. K-12
The grade level option an applicant selects is based on the teaching endorsement area.

A. Secondary Education 7-12
with a teaching endorsement in Business Education, English as a Second Language, English/Language Arts, Family and Consumer Science, General Science, Mathematics, Social Studies, Technology Education or World Languages

PROGRAM REQUIREMENTS
1. Required Foundations Courses (6-9 credits)
   EDFN A478 Issues in Alaska Native Education, K-12 3
   EDFN A601 Foundations: Philosophy of Education 2
   EDFN A602 Foundations: Educational Psychology 2
   EDFN A603 Foundations: Educational History and Sociology 2

   (Career and technical education candidates may take CTE A611 Historical and Philosophical Foundations of Career and Technical Education, instead of EDFN A601 and EDFN A603)

   Notes: Minimum grade of B required in EDFN A478. With departmental approval, the above courses may be taken before formal admission to the MAT program. If EDFN A478 is taken as part of an undergraduate program, it may be waived for the MAT.

2. Required Core Courses (11 credits)
   EDFN A647 Developing Literacies Across the K-12 Continuum 1
   EDFN A649 Capstone Seminar: Inquiry in Teaching and Learning 2
   EDSY A637 Inclusive Teaching and Learning in Secondary Schools 2
   EDSY A630 Language, Culture, and Teaching in Secondary Schools 2
   EDSY A644 Developing a Community of Learners in Middle/High School 3
   EDSY A648 Developing Literacies in the Secondary Content Areas 1

   Note: Minimum grade of B required in EDFN A649.

3. Required Methods Classes (6 credits)
   Choose appropriate two-course sequence:
   EDSY A661 General Methods for Secondary Classrooms 3
   and (select appropriate content course):
   EDSY A663 Teaching English/Language Arts in Secondary Schools (3) or
   EDSY A664 Teaching Social Studies in Secondary Schools (3) or
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**Graduate Programs, College of Education**

**PROGRAM OPTIONS**

A. **Fast Track Option**

The Fast Track Option is an intensive three-semester program that allows candidates to complete the MAT as full-time students in 12 to 18 months. Candidates admitted in the fall take classes “spring-fall-spring.” Candidates admitted in the spring take classes “summer-fall-spring.” The yearlong internship is during the fall and spring semesters.

B. **Two-Year Option**

The Two-Year Option allows candidates to complete the MAT as part-time students over a period of 24 to 30 months. Depending on admission, candidates take 6 credits of foundations courses either during the spring or summer semester. Beginning in the fall semester when candidates are enrolled in the core courses and/or methods courses, their schedule includes a required field experience component (internship).

C. **Alternate Route to Certification Option**

The Alternate Route Option is for candidates who have secured a teaching position with an Alaska school district. Generally, this option is available only to those candidates in areas of teacher shortage. Candidates will complete the MAT in 24 to 30 months. Please contact the College of Education for further information about this option.

**PROFESSIONAL FIELD EXPERIENCES**

The Master of Arts in Teaching program includes a comprehensive internship experience in an educational setting. Internship placements are arranged and supervised by university faculty in partnership with the principal and staff from the public school. University coursework and classroom practice are closely linked and communication about performance in both the coursework and classroom practice is shared among the partners. Internships follow the K-12 school year calendar and not the university academic year calendar.

Performance in the internship must meet stated competencies and individual outcomes. Performance evaluations determine the candidate’s progress toward meeting the State of Alaska Standards for Beginning Teachers, the Guidelines for Preparing Culturally Responsive Teachers for Alaska’s Schools, and the International Society for Technology in Education’s National Education Technology Standards and Performance Indicators for All Teachers.

It is expected that interns will demonstrate appropriate professional dispositions with respect to their actions, attitudes, and performance. Teacher candidates are required to adhere to the characteristics of professionalism as published in the MAT Program Handbook, and to abide by the State of Alaska Code of Ethics for the Education Profession. Unacceptable academic performance, an unprofessional attitude, unsatisfactory field reports, violation of professional ethics, or other factors may result in removal from the field experience and denial of the Institutional Recommendation for teacher certification.

Internship placements are made in partnership with participating school districts, which may request additional information and/or preparation from university candidates according to the district's established policies and practices. Because cooperating districts also determine the number of placements available for candidates, placement may become competitive if the number of applicants exceeds the number of spaces. Districts also reserve the right to refuse or terminate placements when candidates do not meet a minimum standard of performance. Thus, while the university will make every effort to identify appropriate field experiences, admission to the Master of Arts in Teaching program does not guarantee an internship placement.
INSTITUTIONAL RECOMMENDATION

To obtain an institutional recommendation for teacher certification, candidates must have:

1. Completed all program courses with a minimum grade of C, or B where specified;
2. Maintained a cumulative 3.00 GPA in the MAT;
3. Achieved passing scores on the Praxis I and II examinations;
4. Satisfactorily completed internships; and
5. Met all standards listed in the standards-based Initial Endorsement Content Preparation Review.

Alaska Certification Note: Certification is awarded by the State of Alaska through the Alaska Department of Education and Early Development (EED) in Juneau. Graduates must meet all requirements specified by EED at the time of application for certificate.

MASTER OF EDUCATION

Within the curriculum of the MEd program are several options, each with its own set of specific requirements. Each is designed to provide the student with initial or advanced preparation in professional education. Some also lead to endorsement or certification. MEd options are:

A. Counselor Education
   School Counseling (K-8, 7-12, or both)
   Community Agency Counseling
B. Early Childhood Special Education
C. Educational Leadership
   Principal (K-8, 7-12, or both)
   Teacher Leadership - admission suspended
D. Master Teacher with Specialty Options - admission suspended
E. Special Education
   Special Education
   Special Education Administration

PROFESSIONAL FIELD PRACTICE

Prior to permitting the candidate to enter the final stage of preparation, which is characterized in most options by participation in a practicum or internship, a faculty committee will evaluate the candidate’s performance in the program. Admission into this final phase of professional preparation is a faculty decision and is separate from entry into the graduate program. Difficulties including inadequate academic performance, unprofessional behavior, unsatisfactory field reports, or other factors, may result in denial of entry to practicum or internship. Performance in practicum and internship is closely monitored, with stated minimum competencies and the development of individual objectives. Since this is the practice and application phase of professional development, it is assumed that candidates will demonstrate appropriate professional dispositions with respect to their professional actions, attitude, and performance.

The Alaska Department of Education and Early Development issues certificates/endorsements as a result of successful program completion as verified by the department chair and the dean.

FIELD PLACEMENTS

Most College of Education graduate programs require field experiences in school or agency settings.

Criminal History Background Clearance

The College of Education requires compliance with specific background clearance policies and procedures for candidates participating in university-sponsored fieldwork.

There are two types of background clearances required. In general, Alaska Public Safety Information Network (APSN), also known as Interested Person Report (IRP), clearance is required for lecture courses that include a fieldwork component as part of the course. Courses that are primarily field-based, such as practica or internships, require fingerprinting and a national (FBI) criminal history background check. Various agencies and centers may have additional requirements. In some cases, criminal history background clearance is required for admission to a department or program.

Failure to comply with the College of Education background check requirements will result in denial of access to field placement settings. Failure to pass the criminal history background check will result in removal from the program. More information is located at http://coe.uaa.alaska.edu/background.cfm.

Cooperating School/Agency

Practica, internships, and other field placements are made only in cooperation with participating school districts and agencies. The school districts and agencies that work with the College of Education reserve the right to request additional information and/or preparation from candidates, in accordance with their established policies/practices. Cooperating districts and agencies also determine the number of available spaces and placements for candidates. Placements may become competitive if the number of applicants exceeds the number of spaces. Districts and agencies also reserve the right to refuse or terminate placements when candidates do not meet an acceptable standard of performance. Thus, while the University makes every effort to find appropriate field placements for candidates, admittance to a degree/certificate/endorsement program does not guarantee acceptance by cooperating school districts or agencies. Unacceptable academic performance, an unprofessional attitude, unsatisfactory field reports, violation of professional ethics, or other factors may result in removal from the field placement.

Transfer

Candidates who have taken all or part of an approved program at another university must take at least 9 credits of approved education courses at the University of Alaska prior to being admitted to an advanced practicum or internship.

ADMISSION PROCEDURES

Individuals applying to the MEd must complete both UAA’s graduate application (http://www.uaa.alaska.edu/admissions) and the application for the specific program in the College of Education. When all official transcripts and other required materials are received by the Office of Admissions, a copy of the applicant’s file is forwarded to the College of Education and combined with the College of Education admission materials for consideration by the appropriate department. In some cases, applicants may be contacted about providing writing samples or for scheduling personal interviews with the department after their completed files are received. When all documents are received and reviewed by the department, the applicant will be notified of the department’s decision.

ADMISSION DEADLINES

Applicant files are reviewed throughout the year. However, applications for admission need to be submitted by specific dates (July 1, November 1, and May 1) to qualify for financial aid.

ADMISSION REQUIREMENTS

1. Satisfy Admission Requirements for Master’s Degrees at the beginning of this chapter.
2. Hold a baccalaureate degree from a regionally accredited institution or equivalent from another country.
3. Have a GPA of 3.00 (on a 4.00 point scale) in the last 30 credits.
4. Satisfy the admission requirements as specified by the appropriate program. In general, programs require submission of a resume documenting professional experience, goal statements, and professional references. Some programs may require teacher certification. Departments may request writing samples or interviews as part of the admission process.

Competitive Qualifications

Applicants who meet the above criteria are considered for program admission on a competitive basis.
GRADUATE STUDIES PLAN
An official Graduate Studies Plan must be approved before completion of more than 12 credits of course work.

GRADUATION REQUIREMENTS
Candidates completing the Master of Education degree must complete the following requirements:

1. Satisfy University Requirements for Master’s Degrees and master’s level graduation requirements at the beginning of this chapter.
2. Complete a minimum of 30 credits of approved course work. Specific programs may require more than 30 credits. See appropriate program for credit requirements.
3. Satisfy the requirement of a comprehensive examination, comprehensive portfolio, or other scholarly work as specified by the program.

Cautionary Note: Graduate courses completed prior to being admitted as a graduate student will not necessarily be applicable toward a specific graduate degree program. Since recency of credits is of concern to the candidate’s committee when developing the graduate program, coursework must be completed within a consecutive seven-year period prior to graduation in order to fulfill the requirements of the degree.

INSTITUTIONAL RECOMMENDATION
Following are the requirements for an institutional recommendation for those programs leading to a recommendation for certification or endorsement:

1. All program courses must be completed with a grade of C or higher.
2. Cumulative GPA of 3.00 in the program coursework.
3. For endorsements, all requirements for a current Teacher Certificate must be successfully met.
4. For Principal Type B Administrative Certificates, candidates must have three years of successful certificated contract experience as a teacher or special services provider (Type C). In addition, a minimum of a masters degree is required.
5. For the Principal Type B Certificate, the MEd must be conferred.
6. For the Type F Special Education Administration Certificate, candidates must have three years of successful contract experience as a special services provider. The certificate is restricted to those candidates who hold a Type C Special Services Certificate with an endorsement in school psychology, speech-language pathology, or school counseling. In addition, a minimum of a master’s degree is required.
7. For the Type B Administrative Certificate with an endorsement in special education administration, candidates must have three years of successful certificated contract experience as a special education teacher. In addition, a minimum of a master’s degree is required.
8. Demonstration of basic computer/technology competence. See specific programs for additional information.

Note: Certification is awarded by the State of Alaska through the Alaska Department of Education and Early Development (EED) in Juneau. Graduates must meet all requirements specified by EED at the time of application for the certificate.

PROGRAM REQUIREMENTS (MEd)
Complete one of the following courses of study:

A. Counselor Education

http://coe.uaa.alaska.edu/coun

The MEd in Counselor Education is designed for individuals who desire initial professional preparation as counselors in public schools or community agencies. The program encompasses theory, research, and practice relating to the delivery of counseling services to children, adolescents or adults who require assistance with developmental, academic, personal, social, or career issues.

STUDENT OUTCOMES
1. Communicate essential knowledge and understandings of the profession of counseling including an ability to integrate knowledge into personally meaningful frameworks.
2. Apply practical knowledge that is developmentally appropriate to individuals and groups.
3. Utilize assessment, research, and technology to support and improve counseling practices.
4. Show characteristics relating to effective counseling practice.
5. Create positive therapeutic environments for all clients.
6. Engage in work that meets ethical standards and legal mandates in the field of counseling.

ADMISSION REQUIREMENTS
1. See Admission Requirements for Master’s Degrees at the beginning of this chapter and Admission Requirements for Master of Education degrees at the beginning of this section.
2. Submit Graduate Record Examination (GRE) General Test scores (minimum 800 combined verbal and quantitative and 4.0 analytical writing) or Miller Analogies Test (MAT) score (minimum of 40th percentile).
3. Complete the Counselor Education Application (application packet can be found on the program website).
4. Submit three letters (or reference forms) of professional recommendation (see application packet for forms).
5. Provide a goal statement of approximately 500 words that contains an autobiography, career goals, and how the MEd program relates to those goals.
6. Participate in an interview (if requested).
7. Provide a writing sample (if requested).

BACKGROUND CHECK REQUIREMENTS
See Field Placements located at the beginning of the College of Education section of this chapter.

PROGRAM REQUIREMENTS
1. Research Core (6 credits):
   EDRS A660 Fundamentals of Research in Education* 2
   EDRS A664 Developing and Writing Literature Reviews* 2
   EDRS A667 Program Evaluation 2
   *Must be taken within the first 12 credits of program coursework.
2. Counselor Education Core (30 credits):
   EDCN A610 Professional and Ethical Orientation to Counseling 3
   EDCN A613 Human Development for Helping Professionals 3
   EDCN A614 Counseling Diverse Populations 3
   EDCN A616 Counseling Theories 3
   EDCN A620 Assessment in Counseling 3
   EDCN A623 Counseling Skills and Techniques 3
   EDCN A624 Group Counseling 3
   EDCN A632 Lifespan Career Development 3
   EDCN A634 Counseling Practicum 3
   EDSE A632 Special Education Law: Principles and Practices 3
3. Choose one of two options:
   a. School Counseling
   b. Community Agency Counseling.

The School Counseling option addresses the State of Alaska Department of Education and Early Development (EED) requirements for a Type C Special Services Certificate with an endorsement in Counseling and Guidance. Both options address the academic requirements for the credential of National Certified Counselor (NCC). Additional requirements
**B. Early Childhood Special Education**

http://coe.uaa.alaska.edu/ecse

The MEd in Early Childhood Special Education is designed for individuals who desire initial professional preparation in early intervention and early childhood special education. The program encompasses theory, research, and practice relating to children birth to 5 years of age who experience developmental delays and disabilities. In addition to the degree, this program may also lead to an institutional recommendation for initial teacher certification* or endorsement in Early Childhood Special Education-Birth to Five on an existing certificate from the Alaska Department of Education and Early Development (EED).

**STUDENT OUTCOMES**

Student outcomes for the program are based on the professional standards of the Council for Exceptional Children (CEC) located at: www.cec.sped.org/Content/NavigationMenu/ProfessionalDevelopment/ProfessionalStandards/EthicsPracticeStandards/SpecialEdTeachers/default.htm

Students who complete this program will be able to:

1. **Apply legal and ethical policies that affect young children with developmental delays and disabilities, families, and programs for young children.**
2. **Use intervention strategies with young children having developmental delays and disabilities and their families that affirm and respect family, cultural, and linguistic diversity.**
3. **Develop and apply instructional practices based on knowledge of the child, family, community, and the curriculum.**
4. **Design, implement, and evaluate environments to assure developmental and functional appropriateness.**
5. **Assess the development and learning of young children with developmental delays and disabilities and use that information to direct intervention.**
6. **Critically analyze and apply principles of research in the area of early childhood special education.**

**ADMISSION REQUIREMENTS**

1. **Satisfy Admission Requirements for Master's Degrees at the beginning of this chapter and Admission Requirements for Master of Education degrees at the beginning of this section.**
2. **Provide transcripts documenting a GPA of 3.00 in most recent 30 credits.**
3. **Submit a resume documenting educational experience and at least one year of appropriate professional experience.**
4. **Submit a goal statement on career goals and how they relate to the MEd program.**
5. **Submit three letters of recommendation or rating forms from professional references.**
6. **Participate in an interview if requested by the department.**

**BACKGROUND CHECK REQUIREMENTS**

See Field Placements located at the beginning of the College of Education section of this chapter.

**PROGRAM REQUIREMENTS**

This program includes courses delivered by distance. Admitted students must have the technological knowledge and skills to engage in distance learning.

1. **Complete required courses (36 credits):**
   - EDRS A660 Fundamentals of Research in Education 2
   - Research courses by advisement 4

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apply. See the National Board for Certified Counselor for more information: www.nbcc.org. Both options also address partial academic requirements for the credential of Licensed Professional Counselor (LPC), Candidates must have a total of 60 credits approved by the LPC Board. Additional requirements apply. See the Alaska Board of Professional Counselors website for more information: www.commerce.state.ak.us/occ/pcpco.htm. Also see the Graduate Certificate in Counselor Education.

**a. School Counseling (12 credits)**

The School Counseling option is designed for individuals who want to work as counselors in public school settings.

- EDCN A625 Administration and Practices in School Counseling 3
- EDCN A633 Counseling Children and Adolescents 3
- EDCN A695E* Counseling Internship: Elementary School (3-6) 3
- EDCN A695S* Counseling Internship: Secondary School (3-6) 3

Electives by Advisement 3

*EDCN A695E Counseling Internship: Elementary School and EDCN A695S Counseling Internship: Secondary School cannot be used to fulfill elective course requirements for the degree.

Alaska Certification Note: The School Counseling option may lead to an institutional recommendation for a Type C Special Services Certificate with an endorsement in Counseling and Guidance. Candidates will be considered for endorsement at the elementary (K-8) or secondary (7-12) level upon completion of an internship at the appropriate level. Thus, candidates seeking institutional recommendation for grades K-12 must successfully complete internships at both elementary and secondary levels. Candidates will need additional coursework not required for the degree. EED requires approved coursework in multicultural education/cross-cultural communication and Alaska studies. The multicultural education/cross-cultural communication requirement is met through completion of EDCN A614 Counseling Diverse Populations if taken after May 2008. For a list of all approved courses, see the EED website: www.eed.state.ak.us.

**b. Community Agency Counseling (12 credits)**

The Community Agency Counseling option is designed for individuals who want to work as counselors in community agency settings.

- EDCN A627 Counseling in Community Agencies 3
- EDCN A690 Current Topics in Counseling (1-3) 3
- EDCN A695C* Counseling Internship: Community Agency (3-6) 3

Electives** by Advisement 3

*EDCN A695C Counseling Internship: Community Agency cannot be used to fulfill elective course requirements for the degree.

**Students seeking a concentration in career education counseling should choose CTE A611 Historical and Philosophical Foundations of Career and Technical Education.
ADMISSION REQUIREMENTS

1. Satisfy Admission Requirements for Master’s Degrees at the beginning of this chapter and Admission Requirements for Master of Education degrees at the beginning of this section.
2. Have at least one year of experience as a certificated elementary teacher, secondary teacher, or special services provider (Type C).
3. Hold a current teacher certificate or provide evidence of eligibility for an Alaska Teacher Certificate.

STUDENT OUTCOMES

Student outcomes for the MEd in Educational Leadership are based on the Interstate School Leaders Licensure Consortium (ISLLC) Standards for School Leaders. Students who complete the Educational Leadership degree program will be able to:

1. Facilitate the development, implementation, and monitoring of a shared vision of learning, involving all stakeholders.
2. Shape, nurture, and sustain a school culture and instructional program based on student learning and professional growth.
3. Ensure effective management of operations and resources for safe, efficient, and effective learning environment.
4. Collaborate with family and community members to mobilize community resources to respond to diverse community interests and needs.
5. Act with integrity and fairness in an ethical manner.
6. Understand, respond to, and influence the larger political, social, economic, legal, and cultural context.

a. Principal (with Type B Administrator Certificate)

Students completing this program are eligible for an institutional recommendation for an administrator certificate to serve as school principals.

BACKGROUND CHECK REQUIREMENTS

See Field Placements located at the beginning of the College of Education section of this chapter.

PROGRAM REQUIREMENTS

This program includes courses delivered by distance. Admitted students must have the technological knowledge and skills to engage in distance learning.

1. Foundation Core (12 credits):
   - EDFN A636 Innovations in Teaching and Learning 3
   - EDRS A660 Fundamentals of Research in Education 2
   - Research courses by advisement 4
   - 600-level electives by advisement 3

2. Principal Core (24 credits):
   - EDL A637 Educational Leadership and Organizational Behavior 3
   - EDL A638 Instructional and Curricular Leadership 3
   - EDL A639 The Politics of Education 3
   - EDL A640 Law and Ethics in Education 3
   - EDL A641 Principal Internship (3-6) 6
   - EDL A642 Principal’s Seminar I 3
   - EDL A643 Principal’s Seminar II 3

3. Comprehensive portfolio required.
4. A total of 36 credits is required for the degree and to apply for an institutional recommendation for a Type B Administrator Certificate from the Alaska Department of Education and Early Development (EED).
   - Alaska Certification Note: EED requires 3 credits of multicultural education/cross-cultural communication and 3 credits of Alaska studies for State licensure. See the Alaska Department of Education and Early Development (EED) website for more information: www.eed.state.ak.us.

b. Teacher Leadership

Admission to the teacher leadership option is suspended.

D. Master Teacher with Specialty Options

http://coe.uaa.alaska.edu

Admission to the MEd in Master Teacher Specialty Options is suspended. The Department of Teaching and Learning is revising the curriculum and plans to reopen this program for admission in 2010.

E. Special Education

http://coe.uaa.alaska.edu/sped

Speech-Language Affiliated Program

UAA is affiliated with two graduate schools outside Alaska to provide a master’s degree in speech-language pathology. The graduate schools offer academic coursework by distance education while UAA sponsors internships and leveling courses. Contact the project director at slp@uaa.alaska.edu for further information.
The MEd in Special Education has two options:

a. Special Education Concentration
b. Special Education Administration Concentration.

a. Special Education Concentration
The MEd in Special Education with the Special Education Concentration is designed for individuals who desire advanced professional preparation in special education. The program encompasses theory, research, and practice relating to individuals who experience disabilities.

STUDENT OUTCOMES
Student outcomes for the program are based on the professional standards of the Council of Exceptional Children (CEC) located at http://www.cec.sped.org. Students who complete this program will be able to:
1. Utilize a variety of assessments to identify specific areas of student strengths and weaknesses and use the results to guide instruction.
2. Individualize instruction to meet the specific needs of students with disabilities in inclusive settings.
3. Support and promote inclusiveness and equity for students with diverse cultural and ethnic backgrounds.
4. Apply the legal and ethical principles associated with special education.
5. Promote a positive social environment for all students, particularly those with significant emotional and/or behavioral disorders.
6. Develop and maintain an atmosphere of collaboration with teachers, parents, administrators, and paraprofessionals.
7. Critically analyze and apply principles of research.
8. Demonstrate literacy regarding theoretical perspectives associated with human development and learning.

ADMISSION REQUIREMENTS
1. Satisfy Admission Requirements for Master’s Degrees at the beginning of this chapter and Admission Requirements for Master of Education degrees at the beginning of this section.
2. Provide transcripts documenting a minimum GPA of 3.00 in the most recent 30 credits.
3. Provide evidence of a current teaching certificate or endorsement for a Type B Administrative Certificate with special education.
4. Submit a goal statement on career goals and how they relate to the MEd program.
5. Submit a portfolio documenting attainment of CEC standards.
6. Participate in an interview if requested by the department.

BACKGROUND CHECK REQUIREMENTS
See Field Placements located at the beginning of the College of Education section of this chapter.

PROGRAM REQUIREMENTS
This program includes courses delivered by distance education. Students must have the technological knowledge and skills to engage in distance learning.
1. Complete required courses (36 credits):
   - EDRS A660 Fundamentals of Research in Education 2
   - Research courses by advisement 4
   - EDSE A622 Theories and Strategies 3
   - EDSE A633 Autism: Communication and Social Disorders 3
   - Electives by advisement 21

b. Special Education Administration Concentration
The MEd in Special Education with the Special Education Administration Concentration provides advanced professional preparation for school psychologists, speech-language pathologists, school counselors, and special education teachers seeking leadership positions in special education and related services. Successful program completion leads to state licensure as a special education administrator. For certificated school psychologists, speech-language pathologists, and school counselors, this program leads to a Type B Special Education Administrator Certificate. For certificated special education teachers, this program leads to an institutional recommendation for a Type B Special Education Administrator Certificate with an endorsement in special education administration.

STUDENT OUTCOMES
The following student outcomes are based on the Council of Exceptional Children (CEC) standards for administrators available at www.cec.sped.org. Students who complete this program will be able to:
1. Interpret and apply current laws, regulations, and policies as they apply to the administration of services to individuals with exceptional learning needs and their families.
2. Develop and manage a budget in accordance with local, state, and federal education laws and regulations.
3. Engage in data-informed decision making for the administration of education programs and services that support students with exceptional learning needs and their families.
4. Develop and implement ongoing evaluations of education programs and personnel.
5. Demonstrate the skills necessary to provide ongoing communication, education, and support for families of individuals with exceptional learning needs.
6. Communicate a personal inclusive vision and mission for meeting the needs of individuals with exceptional learning needs and their families.

ADMISSION REQUIREMENTS
1. Satisfy Admission Requirements for Master’s Degrees at the beginning of this chapter and Admission Requirements for Master of Education degrees at the beginning of this section.
GRADUATE PROGRAMS, COLLEGE OF EDUCATION

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GRADUATE CERTIFICATES
The College of Education offers six graduate certificate programs:

2. Post-Graduate Graduate Certificate in Counselor Education
3. Post-Graduate Certificate in Educational Leadership: Principal
4. Post-Graduate Certificate in Educational Leadership: Superintendent
5. Graduate Certificate in Language Education: English for Speakers
6. Graduate Certificate in Special Education.

Each program is designed to provide the student with initial or advanced preparation in professional education. With the exceptions of Counselor Education and e-Learning, successful completion of the programs leads to an institutional recommendation for a state certificate or endorsement. Admitted students must have the technological knowledge and skills to engage in distance learning.

Course work that is applied to graduate certificates may also apply the MEd with faculty advisor approval.

PROFESSIONAL FIELD PRACTICE
See Master of Education section for description of requirements for admission and performance in internships.

FIELD PLACEMENTS
See Master of Education section for description of factors affecting field placements with cooperating school districts.

ADMISSION DEADLINES
Individuals applying to the graduate certificate programs must complete UAA’s graduate application and the College of Education application. Applicant files are reviewed throughout the year. However, applications for admission need to be submitted by specific dates (July 1, November 1, and May 1) to qualify for financial aid.

A. GRADUATE CERTIFICATE, COUNSELOR EDUCATION

The Graduate Certificate in Counselor Education provides graduates of counseling programs with continuing professional preparation as counselors in public schools and community agencies. The graduate certificate program builds on the knowledge and skills acquired through previous master’s level study in counselor education and related fields.

This graduate certificate provides structured support to those seeking continuing education for maintaining current certifications or obtaining additional credentials through the Alaska Board for Professional Counselors and/or the National Board of Certified Counselors. It is designed to supplement each candidate’s existing experience and academic preparation and the degree to which each candidate achieves the program outcomes. Therefore, specific required courses are not listed since individual graduate studies plans may vary considerably based on prior coursework of each candidate. The faculty advisors will use the academic preparation requirements set forth by the licensing boards to guide the course work selections included on the graduate studies plan.

STUDENT OUTCOMES
The outcomes for the program are based on the National Board of Certified Counselors standards located at www.nbcc.org. Students who complete this program will be able to:

1. Articulate a personalized meaning of the professional and ethical issues in the counseling field.
2. Demonstrate mastery in the counseling field content areas of
   a. Research including program evaluation
   b. Appraisal of the individual
   c. Social and cultural foundations
   d. Human growth and development
   e. Group work
   f. Career development through the lifespan
   g. Helping relationships

ADMISSION REQUIREMENTS
1. Satisfy the University Graduate Certificate Admission Requirements at the beginning of this chapter.

BACKGROUND CHECK REQUIREMENTS
See Field Placements located at the beginning of the College of Education section of this chapter.

PROGRAM REQUIREMENTS
This program includes courses delivered by distance education. Students must have the technological knowledge and skills to engage in distance learning.

1. Complete Foundation Core (12 credits)
   EDRS A660     Fundamentals of Research in Education 2
   EDRS A667     Program Evaluation 2
   Research courses by advisement 2
   Electives by advisement 6

2. Complete required courses (24 credits)
   EDL A637     Educational Leadership and Organizational Behavior 3
   EDL A638     Instructional and Curricular Leadership 3
   EDL A639     The Politics of Education 3
   EDSE A611    Supporting Families of Exceptional Children 2
   EDSE A632    Special Education Law: Principles and Practices 3
   EDSE A675    Supervision 2
   EDSE A676    Special Education Finance 2
   EDSE A695D   Internship: Special Education Administration (3-6) 6

3. Students seeking a second master’s must take EDRS A667 Program Evaluation in addition to the required courses.


5. Satisfy College of Education Graduation Requirements at the beginning of this section.

6. Complete a total of 36 credits for the degree.

Alaska Certification Note: EED requires 3 credits of multicultural education/cross-cultural communication and 3 credits of Alaska studies for State licensure. See the EED website for more information: www.eed.state.ak.us.

www.uaa.alaska.edu
2. Complete the Counselor Education Application (application can be found on the program website).
3. Hold a master’s degree in counselor education or closely related field from a regionally accredited institution with a grade point average of 3.00 on a 4.00 scale.
4. Submit three letters (or reference forms) of professional recommendation (see application packet for forms).
5. Provide a goal statement of approximately 500 words that contains an autobiography, career goals, and how the certificate program relates to those goals.
6. Participate in an interview (if requested).
7. Submit a writing sample (if requested).

**GRADUATION REQUIREMENTS**

1. Satisfy university graduate certificate requirements found at the beginning of this chapter.
2. Complete program requirements below.

**BACKGROUND CHECK REQUIREMENTS**

See Field Placements located at the beginning of the College of Education section of this chapter.

**PROGRAM REQUIREMENTS**

1. Submit all graduate transcripts to the advisor for review.
2. Collaborate with the advisor to create a Graduate Studies Plan within the first semester of program admission.
3. Complete a total of 12 – 18 selective credits of coursework as specified on the student’s Graduate Studies Plan.
4. Maintain an overall GPA of 3.00 in the program with no more than one C.
5. Submit a Professional Disclosure Statement.
6. Pass the Counselor Preparation Comprehensive Examination.

Alaska Type C Special Services Certification Note: This program does not lead to certification or endorsement from the Alaska Department of Education and Early Development. Individuals holding master’s degrees in counseling related fields who are interested in certification as an Alaska school counselor should consider applying to the MEd in Counselor Education as a second master’s degree candidate.

Alaska Licensed Professional Counselor and National Certified Counselor Note: This program addresses academic preparation requirements for the Alaska Licensed Professional Counselor (LPC) and the National Certified Counselor (NCC). Other requirements apply. Completion of the graduate certificate program does not automatically result in an LPC or NCC credential, but focuses on professional development and advanced practice for counseling professionals under the guidance of a faculty advisor. However, through advisement, candidates completing the graduate certificate program are well prepared to take the examinations and fulfill other requirements set forth by the licensing boards.

Candidates seeking the Alaska LPC credential must have a total of 60 credits approved by the Alaska Board of Professional Counselors. See their website for more information: [www.commerce.state.ak.us/occ/ppco.htm](http://www.commerce.state.ak.us/occ/ppco.htm).

The credential of NCC is awarded by the National Board of Certified Counselors (NBCC). See their website for more information: [www.nbcc.org](http://www.nbcc.org).

**B. EDUCATIONAL LEADERSHIP GRADUATE CERTIFICATES**

**Principal and Superintendent**

[http://coe.uaa.alaska.edu/edleadership](http://coe.uaa.alaska.edu/edleadership)

The Educational Leadership Certificate programs are designed for individuals with master’s degrees who are seeking advanced professional preparation to become principals or superintendents.

**STUDENT OUTCOMES**

Student outcomes for these certificates are based on the Interstate School Leaders Licensure Consortium (ISLLC) Standards for School Leaders. Students who complete the Educational Leadership Certificate programs will be able to:

1. Facilitate the development, implementation, and monitoring of shared vision of learning, involving all stakeholders.
2. Shape, nurture, and sustain a school culture and instructional program based on student learning and professional growth.
3. Ensure effective management of operations and resources for safe, efficient, and effective learning environment.
4. Collaborate with family and community members to mobilize community resources to respond to diverse community interests and needs.
5. Act with integrity and fairness in an ethical manner.
6. Understand, respond to, and influence the larger political, social, economic, legal, and cultural context.

**ADMISSION REQUIREMENTS**

1. Satisfy Admission Requirements for Graduate Certificates found at the beginning of this chapter.
2. Hold a master’s degrees from a regionally accredited institution with a grade point average of 3.00 on a 4.00 scale.
3. Hold appropriate certification:
   a. Current teacher or special services provider (Type C) certificate or equivalent for Educational for Educational Leadership Certificate: Principal.
4. Provide a resume documenting educational experience including at least one year of experience as a certificated elementary teacher, secondary teacher, or special services provider (Type C).
5. Submit an educational goal statement.
6. Submit three letters of recommendation or rating forms from professional references.

**GRADUATION REQUIREMENTS**

1. Satisfy Graduate Certificate University Requirements found at the beginning of this chapter.
2. Complete program requirements below.

**Educational Leadership: Principal (K-8, 7-12, or K-8 & 7-12), Graduate Certificate**

**BACKGROUND CHECK REQUIREMENTS**

See Field Placements located at the beginning of the College of Education section of this chapter.

**PROGRAM REQUIREMENTS**

This program includes courses delivered by distance. Admitted students must have the technological knowledge and skills to engage in distance learning.
1. Complete required courses (24 credits):
   - EDL A637 Educational Leadership and Organizational Behavior 3
   - EDL A638 Instructional and Curricular Leadership 3
   - EDL A639 The Politics of Education 3
   - EDL A640 Law and Ethics in Education 3
   - EDL A641 Principal Internship (3-6) 6
   - EDL A642 Principal’s Seminar I 3
   - EDL A643 Principal’s Seminar II 3

2. Complete portfolio documenting attainment of ISLLC standards.

3. Complete a total of 24 credits for the certificate and to apply for an institutional recommendation for the Type B Administrator Certificate with a principal endorsement from the Alaska Department of Education and Early Development.

Alaska Certification Note: The Alaska Department of Education and Early Development requires 3 credits of multicultural education/cross-cultural communication and 3 credits of Alaska studies for State licensure. See www.eed.state.ak.us for more information.

**Educational Leadership:**

**Superintendent (K-12), Graduate Certificate**

**PROGRAM REQUIREMENTS**

This program includes courses delivered by distance. Admitted students must have the technological knowledge and skills to engage in distance learning.

1. Complete required courses (24 credits):
   - EDL A671 Superintendent Stewardship and Systemic Change 3
   - EDL A672 Student Performance: Academic and Developmental 3
   - EDL A673 Human Resource Management and Labor Relations 3
   - EDL A674 Public School Finance and Facilities 3
   - EDL A675 Superintendent Internship (3-6) 6
   - EDL A676 Superintendent Seminar I 3
   - EDL A677 Superintendent Seminar II 3

2. Complete portfolio documenting attainment of ISLLC standards.

3. Complete a total of 24 credits for the certificate and to apply for an institutional recommendation for the superintendent endorsement from the Alaska Department of Education and Early Development.

Alaska Certification Note: The Alaska Department of Education and Early Development requires 3 credits of multicultural education/cross-cultural communication and 3 credits of Alaska studies for State licensure. See www.eed.state.ak.us for more information.

**INSTITUTIONAL RECOMMENDATION**

**Principal Type B Administrator Certificate Or Superintendent Endorsement**

Following are the requirements for an institutional recommendation. The candidates must have:

a. Completed all program courses with a grade of C or higher.

b. Received a cumulative GPA of 3.00 in the program coursework.

c. Met all requirements for a current Alaska Teacher Certificate, or Type C Special Services Certificate or equivalent from another state.

d. Acquired appropriate professional experience:
   - For Principal Type B Administrator Certificate, candidates must have three years of successful certified contract experience as a teacher or special services provider (Type C).
   - For a Superintendent’s endorsement, candidates must have five years (minimum three years as a teacher and one as an administrator) of experience.

e. Earned a Master’s degree from a regionally accredited institution.

f. Demonstrated basic computer/technology competence.

g. Demonstrated mastery of the relevant standards through a professional portfolio.

**C. GRADUATE CERTIFICATE, E-LEARNING**

The Graduate certificate in e-Learning (electronic learning) is designed for P-20 educators who seek to increase their knowledge and skills in the effective use of electronic information and communication technologies.

**STUDENT OUTCOMES**

Students who complete this program will be able to:

1. Demonstrate the ability to facilitate learning with technology.

2. Evaluate instructional technologies critically.

3. Apply learning theories to instructional design and development.

4. Design and develop virtual learning objects and cognitive tools.

5. Design and develop an online learning module.

6. Show proficiency in the effective use of emerging educational technologies.

**ADMISSION REQUIREMENTS**

1. Satisfy Admission Requirements for Graduate Certificates found at the beginning of this chapter.

2. Document technological skills through a pre-assessment or an advisor-approved prerequisite course.

3. Document prior experiences through a resume.

4. Submit a goal statement describing purpose for applying to the program.

**GRADUATION REQUIREMENTS**

1. Satisfy Graduate Certificate University Requirements found at the beginning of this chapter.

2. Complete program requirements below.

**BACKGROUND CHECK REQUIREMENTS**

See Field Placements located at the beginning of the College of Education section of this chapter.

**PROGRAM REQUIREMENTS**

This program includes courses delivered by distance. Admitted students must have the technological knowledge and skills to engage in distance learning.

1. Complete required courses (12 credits):
   - CIS A420 Consulting and Training End Users 3
   - EDET A637 Design of e-Learning 3
   - EDET A638 Facilitation of Learning with Technology 3
   - EDET A640 e-Learning Project Development 3

2. Earn an overall cumulative GPA of 3.00 or better.

3. A total of 12 credits is required for the certificate.

Alaska Certification Note: This program does not lead to certification or endorsement from the Alaska Department of Education and Early Development.

**D. GRADUATE CERTIFICATE, LANGUAGE EDUCATION**

The Graduate Certificate in Language Education is designed for individuals seeking advanced professional preparation to increase knowledge and skills in working with language learners. Those who teach languages in public or private settings, both in the United States and abroad, may enhance their knowledge and practice by completing this standards-based program.
English For Speakers of Other Languages (ESOL)

**7-12 Concentration**

The ESOL 7-12 concentration is for candidates who are seeking one of the following:

1. Institutional Recommendation for an English as a Second Language (ESL) 7-12 endorsement on a current secondary teacher certificate, OR
2. Advanced preparation in ESOL for increasing professional performance in community programs.

**STUDENT OUTCOMES**

The student outcomes for this concentration are based on the Teachers of English to Speakers of Other Languages (TESOL)/National Council for Accreditation of Teacher Education (NCATE) Standards for P-12 Teacher Education Programs. More information about these standards may be found at www.tesol.org/. Students who complete the Graduate Certificate in Language Education will:

1. Demonstrate understanding of language as a system and demonstrate a high level of competence in helping language learners acquire and use the new language in speaking, reading, and writing for social and academic purposes.
2. Understand and apply concepts, theories, research, and practice to facilitate the acquisition of a primary and a new language in and out of classroom settings.
3. Know, understand and use the major concepts, principles, theories, and research related to the nature and role of culture in language development and academic achievement that support an individual student's learning and apply this knowledge to improve teaching and learning.
4. Know, understand, and use knowledge of how cultural groups and students' cultural identities affect language learning and school achievement.
5. Know, understand, and apply concepts from research and best practice to plan instruction in a supportive learning environment for language learners.
6. Understand various issues of measurement (e.g., equity, cultural and linguistic bias; political, social, and psychological factors) in assessment, IQ, and special education testing; the importance of standards; and the difference between language proficiency and other types of assessment.
7. Serve as a professional advocate and resource for language learners and the community.

**ADMISSION REQUIREMENTS**

1. Satisfy Admission Requirements for Graduate Certificates found at beginning of this chapter.
2. Document professional background (must meet one of the two criteria):
   a. Hold or be eligible to hold a secondary teacher certificate, OR
   b. Hold a baccalaureate degree from a regionally accredited institution or foreign equivalent and document appropriate professional experience or personal background.
3. Provide a minimum of three references addressing the candidate's potential for program success.
4. Submit a current resume.
5. Submit a writing sample including an educational goal statement.
6. Provide evidence of preparation in Language Analysis and Awareness - for example, coursework such as LING A201, or ENGL A475 or equivalents.

**GRADUATION REQUIREMENTS**

1. Satisfy Graduate Certificate University Requirements found at the beginning of this chapter.
2. Complete program requirements below.

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**BACKGROUND CHECK REQUIREMENTS**

See Field Placements located at the beginning of the College of Education section of this chapter.

**PROGRAM REQUIREMENTS**

This program includes courses delivered by distance. Admitted students must have the technological knowledge and skills to engage in distance learning.

1. Complete a minimum of 12 credits beyond the baccalaureate degree. Most students will be expected to complete the following 23 to 25 credits:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL A450</td>
<td>Linguistics and Language Teaching</td>
<td>4</td>
</tr>
<tr>
<td>ENGL A452</td>
<td>English Grammar and Language Teaching</td>
<td>4</td>
</tr>
<tr>
<td>EDSY A630</td>
<td>Language, Culture, and Teaching in Secondary Schools</td>
<td>2</td>
</tr>
<tr>
<td>EDSY A667A</td>
<td>Middle/High School Second-Language Teaching I</td>
<td>3</td>
</tr>
<tr>
<td>EDSY A667C</td>
<td>Middle/High School Methods for Teaching English as a Second Language</td>
<td>2</td>
</tr>
<tr>
<td>EDFN A621</td>
<td>Culture, Language, and Literacy</td>
<td>3</td>
</tr>
<tr>
<td>EDFN A691</td>
<td>Current Topics in Second Language Education (1-3)</td>
<td>3</td>
</tr>
<tr>
<td>EDFN A695E</td>
<td>Internship: English for Speakers of Other Languages (ESOL)</td>
<td>2-4*</td>
</tr>
</tbody>
</table>

*The number of internship credits required varies based on faculty advisor evaluation and approval of prior relevant experience.

2. Meet the TESOL Standards for ESL teachers. This may require students to take additional credits beyond the minimum of 12 required for a graduate certificate.
3. Maintain an overall GPA of 3.00 in the program with no more than one C in a required course.
4. Complete a minimum of 12 credits for the certificate as well as all coursework listed on the Graduate Studies Plan. The Graduate Studies Plan is developed with a faculty advisor, who will analyze previous experience and prior course work.

Note: As with all graduate certificates in the College of Education, coursework applied to the certificate may apply to the MEd with faculty advisor approval.

**INSTITUTIONAL RECOMMENDATION**

Following are the requirements for an institutional recommendation for an ESL endorsement:

1. Professional Teacher Certificate or equivalent with a secondary content endorsement.
2. Baccalaureate degree from a regionally accredited institution or foreign equivalent.
3. Completion of all program requirements as indicated above.

**Alaska Certification Note**: The State of Alaska Department of Education and Early Development (EED) in Juneau awards endorsements. Graduates must meet all requirements specified by EED at the time of application for the endorsement.

**E. GRADUATE CERTIFICATE, SPECIAL EDUCATION**

[http://coe.uaa.alaska.edu/sped](http://coe.uaa.alaska.edu/sped)

The Graduate Certificate in Special Education is designed for individuals who want to become certificated special education teachers. This program expands teaching competencies by providing the theory, knowledge, and practical experience in special education needed to serve children with disabilities and their families. Graduates of this program are eligible for an institutional recommendation for (a) an initial teaching certificate with a special education endorsement, or (b) a special education endorsement on an existing teaching certificate from the Alaska Department of Education and Early Development (EED). Students who are admitted to the Graduate Certificate in Special
Education may apply to the MEd in Special Education. Courses applied to this certificate may also apply to the MEd in Special Education.

**STUDENT OUTCOMES**

Student outcomes for the Special Education Graduate Certificate program are based on the professional standards of the Council of Exceptional Children (CEC) located at: www.cec.sped.org. Students who complete this program will be able to:

1. Utilize a variety of assessments to identify specific areas of student strengths and weaknesses and use the results to guide instruction.
2. Individualize instruction to meet the specific needs of students with disabilities in inclusive settings.
3. Support and promote inclusiveness and equity for students with diverse cultural and ethnic backgrounds.
4. Apply the legal and ethical principles associated with special education.
5. Promote a positive social environment for all students, particularly those with significant emotional and/or behavioral disorders.
6. Develop and maintain an atmosphere of collaboration with teachers, parents, administrators, and paraprofessionals.
7. Critically analyze and apply principles of research.
8. Demonstrate literacy regarding theoretical perspectives associated with human development and learning.

**ADMISSION REQUIREMENTS**

1. Satisfy Admission Requirements for Graduate Certificates found at the beginning of this chapter.
2. Hold a baccalaureate degree from a regionally accredited institution or foreign equivalent and have appropriate experience in the field of special education. (See department for specific requirements).
3. Provide transcripts documenting a minimum GPA of 3.00 in the most recent 30 credits of academic coursework.
4. Submit a resume documenting educational experience and at least one year of appropriate, recent experience with children experiencing disabilities at the developmental level in which the special education endorsement is sought.
5. Submit an essay of 300-500 words addressing career goals and how the program relates to these goals.
6. Provide three letters of recommendation or rating forms from professional references.
7. Participate in an interview if requested by the department.

**GRADUATION REQUIREMENTS**

1. Satisfy Graduate Certificate University Requirements found at the beginning of this chapter.
2. Complete program requirements below.

**CONCENTRATIONS**

There are two concentrations within the program leading to a Graduate Certificate in Special Education:

- **a. Special Education with Initial Certification**
- **b. Special Education Endorsement**

The concentration one completes is based on the professional background an applicant brings to the program.

**a. Special Education with Initial Certification**

The Special Education with Initial Certification Concentration is for individuals with baccalaureate degrees who are not certified teachers, but have professional experience in working with children with disabilities. Individuals in this concentration will need to take the Praxis II examination in a content area prior to receiving an institutional recommendation for certification.

**b. Special Education Endorsement**

**Concentration, Graduate Certificate**

The Special Education Endorsement Concentration is for currently certificated teachers who wish to add a special education endorsement to an existing teaching certificate.

**SPECIAL ADMISSION REQUIREMENTS**

1. Provide documentation of passing scores on the Praxis I or other EED-approved basic skills test.
2. Submit Interested Person Report.
3. Complete up to 15 credits of prerequisite courses with a minimum grade of B in each course. An advisor may waive one or more of the prerequisite courses if the applicant can demonstrate completion of an equivalent course at another regionally accredited institution or appropriate work experience that meets the intent of the course goals and outcomes.

EDEL A426 Teaching Mathematics in Elementary Schools 3
EDFN A303 Foundations of Teaching and Learning 3
EDSE A212 Human Development and Learning 3
EDSE A482 Inclusive Classrooms for All Children 3
EDSE A483 Language and Literacy: Assessment and Interventions 3

**BACKGROUND CHECK REQUIREMENTS**

See Field Placements located at the beginning of the College of Education section of this chapter.

**PROGRAM REQUIREMENTS**

This program includes courses delivered by distance. Admitted students must have the technological knowledge and skills to engage in distance learning.

1. Complete required courses (24 credits):

   - EDSE A610 Clinical Assessment: Eligibility and Program Planning 3
   - EDSE A623 Language and Literacy: Best Practices in Assessment and Intervention 3
   - EDSE A624 Social/Emotional Development, Assessment, and Intervention 3
   - EDSE A625 Teaching Mathematics to Special Learners 3
   - EDSE A634 Support and Supervision of Paraeducators 3
   - EDSE A695E Advanced Internship in Special Education: Elementary (3-6) 6
   - EDSE A695S Advanced Internship in Special Education: Secondary (3-6) 6

Note: Criminal history background clearance is required before the internship. Background checks take up to five months to process, so they must be initiated well in advance of the semester in which the candidate enrolls in the internship.

2. Complete a total of 24 credits for the graduate certificate and application for an institutional recommendation for initial teacher certification with an endorsement in special education.

**SPECIAL ADMISSION REQUIREMENTS**

Provide documentation of a current teaching certificate.

**BACKGROUND CHECK REQUIREMENTS**

See Field Placements located at the beginning of the College of Education section of this chapter.
PROGRAM REQUIREMENTS

This program includes courses delivered by distance. Admitted students must have the technological knowledge and skills to engage in distance learning.

1. Complete one advisor-approved prerequisite course in special education or provide documentation of other appropriate experience with children or adults with disabilities. Course may be taken concurrently with other program requirements.

2. Complete required courses (24 credits):
   - EDSE A610 Clinical Assessment: Eligibility and Program Planning 3
   - EDSE A623 Language and Literacy: Best Practices in Assessment and Intervention 3
   - EDSE A624 Social/Emotional Development, Assessment, and Intervention 3
   - EDSE A625 Teaching Mathematics to Special Learners 3
   - EDSE A634 Support and Supervision of Paraprofessionals 3
   - EDSE A695E Advanced Internship in Special Education: Elementary (3-6) 6 or EDSE A695S Advanced Internship in Special Education: Secondary (3-6) 6

3. Complete a total of 24 credits for the graduate certificate and application for an institutional recommendation for a special education endorsement on an existing teaching certificate.

INSTITUTIONAL RECOMMENDATION

Following are the requirements for an institutional recommendation for a special education certificate or endorsement. The candidate must have:

1. Completed all applicable prerequisite courses with a minimum grade of B.
2. Completed all required courses with a minimum overall GPA of 3.00, with no grade lower than a C.
3. Earned a baccalaureate degree from a regionally accredited institution, or foreign equivalent.
4. Completed internships and professional portfolio documenting attainment of CEC standards.
5. Passed applicable examinations. For candidates in the Special Education with Initial Certification Concentration, passing scores on the Praxis I, or other EED-approved basic skills examination, and the Praxis II are required. The passing scores are established by EED. Elementary special education teachers must take one of the Praxis II examinations designated for elementary teachers; middle and high school teachers must take one of the Praxis II examinations in Mathematics, English, Science, or Social Studies.

Alaska Certification Note: The institutional recommendation for an initial certificate with a special education endorsement will be at the level of the internship. The institutional recommendation for special education endorsement on an existing teaching certificate will be at the level of that certificate. EED may have additional requirements for certification/endorsement.

For those graduates receiving an initial certificate, prior to advancing to the professional certificate, EED requires passing scores on two performance reviews, completion of 3 credits of approved Alaska studies coursework and 3 credits of approved multicultural/cross-cultural communications coursework. See the EED web site for more information: www.eed.state.ak.us.
COLLEGE OF HEALTH AND SOCIAL WELFARE

SCHOOL OF NURSING

Professional Studies Building (PSB), Room 103, (907) 786-4550
http://nursing.uaa.alaska.edu

Graduate studies at the master’s level place primary emphasis upon advanced professional nursing practice, theory, research, and health care delivery systems. Students may develop a specialized practice focus in Health Care Administration, Nursing Education or as a Family Nurse Practitioner or Psychiatric-Mental Health Nurse Practitioner. Master’s level studies provide the student with a basis for further study at the doctoral level. The graduate program is accredited by the National League for Nursing Accreditation Commission (61 Broadway, New York, NY 10006; (212) 363-5555 ext. 153). Graduates in the Family Nurse Practitioner option are eligible to write the national certification examination for advanced professional practice as a family nurse practitioner. Graduates of the Health Care Administration option are eligible, after nurse executive practice, to write the national certification examination for advanced nursing administration. Graduates of the Psychiatric-Mental Health Nurse Practitioner Option are eligible to write the national certification for advanced practice as a psychiatric- mental health nurse practitioner-adult, or psychiatric and mental health nurse practitioner-family. Graduates of the Nursing Education option who have had two years of full-time academic teaching experience are eligible to take the NLN Certified Nurse Educator Examination.

PROGRAM OUTCOMES
The graduate is prepared to:
1. Synthesize knowledge underlying advanced practice based on the current and changing health care environment.
2. Provide advanced clinical care to individuals, families, groups and/or communities in a variety of sociocultural contexts within the graduate’s specialty.
3. Evaluate data sets as a basis for clinical nursing interventions, programs, and health care services.
4. Collaborate with health professionals to improve nursing and health care.
5. Implement leadership strategies to improve health care delivery.
6. Synthesize theory and research for application to advanced practice.
7. Communicate effectively both verbally and in writing.
8. Analyze health system’s issues to promote health across populations.
9. Adhere to published ethical, legal, and professional standards of practice.
10. Articulate a plan for ongoing professional role development.

MASTER OF SCIENCE, NURSING SCIENCE

ADMISSION REQUIREMENTS

UAA Admission Requirements
See the beginning of this chapter for Admission Requirements for Master’s Degrees. The following application submission deadlines are recommended to ensure full processing of application and transcripts:

- December 15 for March 1 applicants
- August 15 for November 1 applicants

School of Nursing Admission Requirements
Students applying to the Master of Science in Nursing Science must also submit documentation of having met the following requirements:

1. Earned baccalaureate degree in nursing from a program accredited by the National League for Nursing Accrediting Commission or the Commission on Collegiate Nursing Education.
2. Undergraduate (and graduate, if applicable) GPA of at least a 3.00 on a 4.00 scale.
3. Graduate Record Examination scores, including an Analytic Writing score of 3.50 or higher.
4. Grade of 2.00 (C or higher) in an undergraduate research methods course and a statistics course that covers descriptive and inferential statistics.
5. Licensure as a registered professional nurse in the State of Alaska concurrent with enrollment in first clinical course.
6. The School of Nursing graduate admission application must be submitted directly to the School of Nursing.
7. Three letters of professional recommendation submitted directly to the School of Nursing. References may be contacted by a member of the admissions committee.
8. Professional portfolio.
9. Minimum of one year of half-time clinical experience as a registered nurse.

The following School of Nursing application submission deadlines are recommend to ensure full processing of application:

- November 1     Graduate study and/or clinical specialty
- March 1        Graduate study and/or clinical specialty

Applicants who meet the above criteria are considered for program admission on a competitive basis. Meeting all admission criteria does not guarantee admission. Neither does prior acceptance into graduate study status guarantee admission into the clinical nursing tracks. Special consideration may be given to candidates with portfolios that document exceptional clinical experience and a proven record of professional contributions. To the extent that there are limited seats available in the program, preference may be given to residents of the state of Alaska as defined by the university’s policy on residency for tuition purposes.

ACADEMIC PROGRESS

Students enrolled in the graduate degree programs must maintain at least a 3.00 (B) GPA in all required course work. Students must earn a grade of B or higher in all clinical courses. If a student earns less than a B in a clinical course, that student must, with faculty recommendation and on a space-available basis, retake the course the next time it is offered. A clinical course may be retaken only once. A student’s graduate nursing program may include a maximum of two C grades. Grades below a C will not be applied to degree requirements. Noncompliance with this policy will result in academic probation, and possible dismissal from the program.

PART-TIME/FULL-TIME STUDY

This program is designed to be completed in six semesters of part-time study, although students can take longer. Prior to being formally admitted to graduate study, students may complete up to 9 credits of degree applicable course work, either UAA credit (with permission of the instructor) or transfer credit. Students who are not formally admitted will be allowed to register on a space-available basis and with instructor permission.

For part-time students, admission to graduate study only is recommended, with formal admission to a specialty track being delayed until core course requirements have been completed. Enrollment in any clinical course requires formal admission to graduate study and to the specialty track.
**ADDITIONAL SCHOOL OF NURSING REQUIREMENTS**

All students enrolled in UAA nursing programs must provide:

- Documentation of continuous current certification in cardiopulmonary resuscitation (CPR) for adults, infants, and children;
- Evidence of satisfactory health status, including immunity to chicken pox, rubella, rubeola, and hepatitis A and B (by titer), documentation of Tdap (tetanus, diphtheria, pertussis), immunization within the past 10 years, annual PPD skin test or health examination indicating freedom from active tuberculosis, documentation of an annual HIV test (results not required); and
- The results of a national-level criminal background check.

Students are required to provide their own transportation to clinical sites. They are also responsible for their portion of the cost of audio-conferencing. Students must have access to a personal computer and reasonable internet connectivity. All students are expected to have basic computer and typing skills prior to entry into the nursing program, for example:

- Word processing (preferably MS Word)
- Sending and receiving e-mail with attachments
- Accessing and navigating the Internet/World Wide Web, and
- Basic understanding of hardware, software, and operating systems.

**SCHEDULING OF COURSES**

Graduate nursing courses are offered in an alternative scheduling format consisting of intensive classroom sessions presented in short time blocks on the UAA campus and/or periodic class meetings throughout the semester that are available via computer and/or audio-conference. Thus, it is possible for students who reside outside of Anchorage to take advantage of the opportunity to pursue graduate study at UAA. In addition, all students have the opportunity to take advantage of clinical learning opportunities throughout the state, including both urban and rural settings.

**GRADUATION REQUIREMENTS**

See the beginning of this chapter for University Requirements for Master’s Degrees.

**PROGRAM REQUIREMENTS**

1. Complete the following required courses:
   - NS A618 Role Development in Advanced Practice Nursing 2
   - NS A619 Health Policy Issues in Advanced Practice Nursing 2
   - NS A620 Nursing Research Methods 4
   - NS A621 Knowledge Development for Advanced Nursing Practice 3
   - HS/NS A625 Biostatistics for Health Professionals 3

   Choose one of the following courses for a total of 4 credits taken over two semesters
   - NS A696 Individual Project (2)
   - NS A699 Thesis (2)

2. Complete one of the following options:

   **Family Nurse Practitioner Option** (32 credits)
   - NS A601 Advanced Pathophysiology 3
   - NS A602 Advanced Health Assessment in Primary Care 3
   - NS A610 Pharmacology for Primary Care 3
   - NS A660 Family Nurse Practitioner I 4
   - NS A661 Family Nurse Practitioner II 5
   - NS A662 Family Nurse Practitioner III 5
   - NS A663 Family Nurse Practitioner IV 6
   - Electives Advisor approved 3

   **Psychiatric-Mental Health Nursing Option** (32 credits)
   - NS A601 Advanced Pathophysiology 3
   - NS A602 Advanced Health Assessment in Primary Care 3
   - NS A610 Pharmacology for Primary Care 3
   - NS A670 Advanced Psychiatric/Mental Health Nursing I 5
   - NS A671 Advanced Psychiatric/Mental Health Nursing II 5
   - NS A672 Advanced Psychiatric/Mental Health Nursing III 5
   - NS A674 Advanced Psychiatric/Mental Health Nursing IV 5
   - Electives Advisor approved 3

   **Health Care Administration Option** (22-23 credits)
   - NS A658 Public Health Policy 3
   - NS A681 Analysis of Health Services 3
   - NS A682 Administrative Services 3
   - NS A682L Administrative Services Field Work (Optional) 1
   - NS A695 Practicum in Health Care Administration 4

   Choose one of the following sets of 9 credits:
   - Set 1
     - PADM A610 Organizational Theory and Behavior (3)
     - PADM A624 Human Resources Administration (3)
     - Electives Advisor approved (3)
   - OR
   - Set 2
     - BA A632 Organizational Behavior and Human Resource Management (3)
     - Electives Advisor approved (6)

   **Nursing Education Option** (24 credits)
   - EDAE A655 The Adult Learner 3
   - EDET A637 Design of e-Learning 3
   - NS A601 Advanced Pathophysiology 3
   - NS A602 Advanced Health Assessment in Primary Care 3
   - NS A646 Curriculum Development, Teaching, and Learning in Nursing 3
   - NS A647 Teaching Practicum in Nursing 3
   - Electives Advisor approved 6

3. A total of 40-50 credits is required for the degree.

**THESIS OR PROJECT OPTION**

A total of 4 credits of either NS A696 Individual Project or NS A699 Thesis, taken over two semesters, are required for the degree. Students who are unable to complete the thesis or project after two semesters will be required to complete the graduate continuous registration procedures (at the beginning of this chapter) and pay all fees.

Students who are unable to complete the thesis or project during these three semesters will be required to register for 2 credits of NS A699, Thesis or NS A696, Individual Project every semester thereafter (excluding summer sessions) until the thesis or project is satisfactorily completed. In the event a student wants to work on the thesis or project during a summer semester, utilizing faculty and UAA resources, they must get approval from their committee and register for a 1-credit independent study (P/F). The independent study credit does not count towards the 4 required thesis or project credits. There is no limit to the number of thesis or project credits that may be accrued; however, no more than 13 credits of thesis or project may be accrued without the student being required to take additional coursework at the graduate level.

There is no limit to the number of thesis or project credits that may be accrued; however, no more than 13 credits of thesis or project may be accrued without the student being required to take additional coursework at the graduate level. Specific requirements for additional...
GRADUATE PROGRAMS, COLLEGE OF HEALTH AND SOCIAL WELFARE

GRADUATE NURSING CERTIFICATE PROGRAMS

The graduate nursing certificate programs were designed for individuals who have previously acquired their master’s degree in nursing from a regionally accredited institution with a nursing program accredited by a nationally recognized accrediting agency (the National League for Nursing Accrediting Commission or the Collegiate Commission on Nursing Education), who wish to expand their nursing competencies or practice to include the role of a family nurse practitioner, psychiatric-mental health nurse practitioner or nurse educator.

Admissions Requirements

See the beginning of this chapter for Admission Requirements for Graduate Certificates.

UAA Admission Requirements

See the beginning of this chapter for Admission Requirements for Graduate Certificates. The following application submission deadlines are recommended to ensure full processing of application and transcripts:

<table>
<thead>
<tr>
<th>Deadline</th>
<th>Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 15</td>
<td>March 1</td>
</tr>
<tr>
<td>August 15</td>
<td>November 1</td>
</tr>
</tbody>
</table>

School of Nursing Admission Requirements

Students applying to the Master of Science in Nursing Science program must also submit documentation of having met the following requirements:

- Earned master’s degree in nursing (MN or MSN) from a school of nursing accredited by the National League for Nursing Accrediting Commission or the Commission on Collegiate Nursing Education.
- Graduate GPA of at least 3.00 on a 4.00 scale.

Additional requirements for students applying for the Family Nurse Practitioner or Psychiatric-Mental Health Nurse Practitioner Certificate include:

- Current licensure as an advanced practice nurse in the state of Alaska, concurrent with enrollment in first clinical course.
- Documentation of national certification as an advanced nurse practitioner.

Applicants who meet the above criteria are considered for program admission on a competitive basis. Meeting all admission criteria does not guarantee admission. Neither does prior acceptance into graduate study status guarantee admission into the clinical nursing tracks. Special consideration may be given to candidates with portfolios that document exceptional clinical experience and a proven record of professional contributions. To the extent that there are limited seats available in the program, preference may be given to residents of the state of Alaska as defined by the university’s policy on residency for tuition purposes.

The School of Nursing will consider applications for the graduate certificate during fall and spring semesters. Following are the deadlines for submission to ensure full consideration by the admissions committee:

<table>
<thead>
<tr>
<th>Deadline</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 1</td>
<td>Graduate Certificate</td>
</tr>
<tr>
<td>March 1</td>
<td>Graduate Certificate</td>
</tr>
</tbody>
</table>

Academic Progress

Students enrolled in the graduate certificate program must maintain a minimum of a 3.00 (B) GPA in all required course work. Students must earn a grade of 3.00 (B) or higher in all clinical courses. If a student earns less than a B (3.00) in a clinical course, that student must, with faculty recommendation and on a space-available basis, retake the course the next time it is offered. A clinical course may be retaken only once. A student’s graduate certificate program may include a maximum of one C (2.00) grade. Grades below a C (2.00) will not be applied to degree requirements. Noncompliance with this policy will result in academic probation, and possible dismissal from the program.

Additional School of Nursing Requirements

All students enrolled in UAA nursing certificate programs must provide:

- Documentation of continuous current certification in cardiopulmonary resuscitation (CPR) for adults, infants, and children;
- Evidence of satisfactory health status, including immunity to chicken pox, rubella, rubeola, and hepatitis A and B (by titer), documentation of Tdap (tetanus, diphtheria, pertussis) immunization within the past 10 years, annual PPD skin test or health examination indicating freedom from active tuberculosis, documentation of an annual HIV test (results not required); and
- The results of a national level criminal background check.

Students are required to provide their own transportation to clinical sites. They are also responsible for their portion of the cost of audio-conferencing. Students must have access to a personal computer and reasonable Internet connectivity. All students are expected to have basic computer and typing skills prior to entry into the nursing program, for example:

- Word processing (preferably MS Word);
- Sending and receiving e-mail with attachments;
- Accessing and navigating the Internet/World Wide Web; and
- Basic understanding of hardware, software, and operating systems.

Graduation Requirements

See the beginning of this chapter for University requirements for Graduate Certificates.

Graduate Certificate, Family Nurse Practitioner

The Family Nurse Practitioner (FNP) Graduate Certificate for psychiatric nurse practitioners was developed for nurses who are already certified as psychiatric nurse practitioners. This program expands their scope of practice to assist them to acquire the theory, knowledge, and skills needed to provide primary care for families. Courses and seminars are scheduled to allow students to attend classes with content specific to expand their specialty practice to include a family scope. The curriculum includes didactic, seminar, and approximately 720 clinical hours in practicum course work. Students who successfully complete the graduate certificate program will be eligible to take the family nurse practitioner examination offered by the American Nurses Credentialing Center (ANCC), or the American Academy of Nurse Practitioners (AANP) to become certified as an FNP. These examinations are given nationwide throughout the year.

The FNP Graduate Certificate for primary care specialities was developed for nurses who are already certified in one of the primary care nurse practitioner specialities (adult, child, or women). Students who successfully complete it will be eligible to take the family nurse practitioner examination offered by the ANCC, or the AANP to become certified as an FNP. These examinations are given nationwide throughout the year.

Graduate Certificate, Psychiatric and Mental Health Nurse Practitioner

The Psychiatric and Mental Health Nurse Practitioner (PMH) Graduate Certificate for advanced nurse practitioners was developed for nurses
who are already certified as advanced nurse practitioners. Students who successfully complete the graduate certificate program will be eligible to take the psychiatric and mental health nurse practitioner examination offered by the ANCC. This examination is given nationwide throughout the year.

**GRADUATE CERTIFICATE, NURSING EDUCATION**

This specialty certificate in nursing education is designed for nurses who have previously acquired a minimum of a baccalaureate degree in nursing and are seeking to develop advanced knowledge and skills in order to teach in academic or clinical settings. The coursework leading to the certificate emphasizes instruction in teaching, program and course/development, implementation, and evaluation.

The curriculum is based on standards for master’s education outlined in the Essentials for Master’s Education in Nursing published by the AACN (1996), as well as the newly developed Core Competencies of Nurse Educators proposed by the National League for Nursing (NLN).

All courses for this certificate will be offered using either standard classroom format or distance technologies, including but not limited to Blackboard web-based approaches, CD-ROMs, and audio-conferencing or video-conferencing as appropriate and available. Teaching practica may be completed in the student’s community, or in some cases may require visits to the UAA campus. Faculty may also validate teaching competencies through site visits and/or conference calls.

The 15-credit graduate certificate includes graduate-level coursework in nursing education and in adult education, with practicum opportunities in classroom and clinical settings.

**PROGRAM REQUIREMENTS**

**GRADUATE CERTIFICATE, FAMILY NURSE PRACTITIONER (FNP)**

1. Complete one of the following tracks:
   - **Adult Nurse Practitioner** (15 credits):
     - NS A660 Family Nurse Practitioner I 6
     - NS A661 Family Nurse Practitioner II 3
     - NS A663 Family Nurse Practitioner IV 6
   - **Pediatric Nurse Practitioner** (15 credits):
     - NS A631 Family Nurse Practitioner Focus on Women’s Health and Obstetrics I 2
     - NS A635 Family Nurse Practitioner Focus on Women’s Health and Obstetrics II 2
     - NS A662 Family Nurse Practitioner III 5
     - NS A663 Family Nurse Practitioner IV 6
   - **Psychiatric Mental Health Nurse Practitioner** (29 credits):
     - NS A601 Advanced Pathophysiology 3
     - NS A602 Advanced Health Assessment in Primary Care 3
     - NS A610 Pharmacology for Primary Care 3
     - NS A660 Family Nurse Practitioner I 4
     - NS A661 Family Nurse Practitioner II 5
     - NS A662 Family Nurse Practitioner III 5
     - NS A663 Family Nurse Practitioner IV 6
   - **Women’s Health Nurse Practitioner** (15 credits):
     - NS A632 Family Nurse Practitioner Focus on Pediatrics I 2
     - NS A636 Family Nurse Practitioner Focus on Pediatrics II 2
     - NS A662 Family Nurse Practitioner III 5
     - NS A663 Family Nurse Practitioner IV 6

2. A total of 15-29 credits is required for the certificate.

**GRADUATE CERTIFICATE, PSYCHIATRIC AND MENTAL HEALTH NURSE PRACTITIONER (PMH)**

1. Complete the following required courses (20 credits):
   - NS A670 Advanced Psychiatric/Mental Health Nursing I 5
   - NS A671 Advanced Psychiatric/Mental Health Nursing II 5
   - NS A672 Advanced Psychiatric/Mental Health Nursing III 5
   - NS A674 Advanced Psychiatric/Mental Health Nursing IV 5

2. A total of 20 credits is required for the certificate.

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**DEPARTMENT OF HEALTH SCIENCES**

Diplomacy Building (DPL), Room 405, (907)786-6565
http://health.uaa.alaska.edu/mph

**MASTER OF PUBLIC HEALTH IN PUBLIC HEALTH PRACTICE**

Public health embraces an ecological approach that recognizes the interactions and relationships among multiple determinants of health. Public health professionals typically take a community or population focus. Our graduate program prepares public health practitioners who identify and assess needs of populations; plan, implement and evaluate programs to address those needs; and otherwise assure conditions that protect and promote the health of populations. The Master of Public
Health (MPH) in Public Health Practice is an interdisciplinary degree designed to provide a broad background to meet the challenges of the diverse and complex field of public health, with a particular focus on the needs of Alaska and the circumpolar north. Students with backgrounds in the natural sciences, social sciences, business, health professions, human services, business, education and law have successfully entered the field of public health at the graduate level.

Both mid-career students and recent graduates may pursue their careers with minimal disruption while working on the MPH degree, because all required courses are offered via distance format. Students are required to attend one mandatory meeting in Anchorage each year, typically in conjunction with the Alaska Public Health Summit, and are expected to communicate frequently with their MPH academic advisor. In-person oral defense of capstone thesis in Anchorage is also expected of the student at the end of the MPH program.

This degree requires core courses in health education and behavioral sciences, environmental and occupational health, health management and policy, biostatistics, and epidemiology. It also includes coursework in research methods, program evaluation, circumpolar health issues and management of public health emergencies and disasters, as well as the opportunity to create an individualized emphasis as the foundation for the required capstone project.

MPH MISSION STATEMENT
The MPH in Public Health Practice program at the University of Alaska Anchorage enhances health in diverse communities across Alaska, the circumpolar north, the nation, and the world. This is accomplished through excellence in the education of public health practice leaders, scientific investigation of public health issues and management of public health emergencies and disasters, as well as the opportunity to create an individualized emphasis as the foundation for the required capstone project.

MPH PROGRAM GOALS AND PROGRAM-LEVEL OBJECTIVES
Based on national accreditation criteria and quality standards, the program goals are:

Service
A. To provide leadership and service to enhance public health practice at the local, state, national and international levels.
   1. Provide expertise to public health agencies and organizations in the surrounding region in order to find innovative solutions to existing public health problems.
   2. Promote collaboration with a variety of public and private agencies in the rural areas and the surrounding region to meet current and future public health practice needs.
   3. Provide leadership to national, regional, and state public health and community health education professional organizations.

Teaching and Research
B. To develop an academic public health program that contributes to and helps train students and support faculty to participate in conducting and translating the growing body of knowledge to enhance the health of communities and strengthen evidence-based public health practice.
   1. Support a local and global research agenda through enhanced international collaboration and increased graduate student involvement in research.
   2. Increase the opportunities for students to participate in and learn from faculty-directed research designed to inform public health decision-making.
   3. Facilitate qualitative, quantitative, and mixed-method research.
   4. Stimulate innovative, crosscutting, interdisciplinary research (grounded in the ecological model) that will help solve public health problems.

   5. Facilitate the publication and dissemination of student and faculty research.
   6. Strengthen and support student and faculty capacity for conducting ethical research.

Workforce Development
C. To provide an instructional program that enhances public health education practice and strengthens the capacity of the existing public health workforce.
   1. Conduct needs and/or asset assessments of communities or professionals in region to determine needs for workforce capacity building.
   2. Conduct continuing education programs that help meet the needs determined in the assessments above.
   3. Facilitate student collaboration with faculty to participate in community and continuing education.
   4. Periodically evaluate the current program, student/faculty perceptions and experiences.
   5. Revise or enhance courses, the program, opportunities, and resources based on an evolving body of knowledge and on results of periodic evaluations.
   6. Create and/or enhance mechanisms (media, pamphlets/fliers, meetings, seminars, and others) to provide educational opportunities for education regarding ongoing and emerging public health issues, especially those based on community concerns.
   7. Provide student MPH opportunities in communities to disseminate information and foster action on public health issues.

Student Outcomes
D. To prepare public health professionals who can demonstrate attainment of our MPH program competencies.
   1. Give, solicit and receive oral, written, graphic and numerical information, taking into consideration target audience and using a variety of mechanisms in both formal and informal settings. [Competency: Communication]
   2. Interact sensitively and professionally with individuals and communities with diverse characteristics. [Competency: Diversity and cultural proficiency]
   3. Create and communicate a shared vision to improve the public’s health.
   4. Develop and champion solutions to population health challenges.
   5. Demonstrate ethical choices, values and professional practices implicit in public health decisions, giving consideration to the effect of choices on community stewardship, equity, social justice and accountability, as well as to commit to personal and institutional development. [Competency: Professionalism and ethics]
   6. Design, develop, implement and evaluate strategies and interventions to improve individual and community health. [Competency: Program planning and assessment]
   7. Recognize dynamic interactions among human and social systems and how they affect the relationships among individuals, groups, organizations and communities. [Competency: Systems thinking]
   8. Utilize biostatistics in the practice of public health. [Competency: Biostatistics]
   9. Design, develop, implement and evaluate approaches for assessing, preventing and controlling environmental hazards that pose risks to human health and safety. [Competency: Environmental health]
   10. Utilize epidemiological skills for informing scientific, ethical, economic, and public health policy decisions on health issues. [Competency: Epidemiology]
   11. Understand the main components and issues of the organization, financing and delivery of health services and public health systems in the US. [Competency: Health policy and management]
12. Understand the role of social, behavioral and community factors in both the onset and solution of public health problems. [Competency: Social and behavioral science].

Environment
E. To create an environment where diverse faculty, students, and staff work collaboratively and respectfully to promote public health.
1. Maintain a diverse student body that reflects the diversity of the region we serve.
2. Maintain a student body with diverse educational and professional backgrounds.
3. Provide a multi-disciplinary, ethnically diverse, and experienced public health faculty and staff.
4. Provide students with contact and involvement with diverse communities and peoples within and outside the MPH Program, that provide and/or enhance knowledge and experience.
5. Annually monitor and continually evaluate processes for recruitment and admission into the program.

Professional Program Fee
A professional program fee is required of all students in the MPH program in addition to course tuition fees, lab fees, course material fees, and student activity fees. The professional program fee is a sum equal to 50 percent of resident tuition, and is charged upon enrollment in MPH courses. The fee contributes directly to program support.

Admission Requirements
See the beginning of this chapter for Admission Requirements for Master’s Degrees. In addition, students should also meet the following criteria when applying for admission to the MPH program:
1. Have earned a baccalaureate degree from a regionally accredited institution in the United States, or a foreign equivalent.
2. Have a GPA of at least 3.00 (B average on a 4.00 scale) in their baccalaureate degree.
3. Submit documentation indicating a grade of 2.00 (C or higher) in an introductory statistics course which covers descriptive and inferential statistics.
4. Provide copies of one or more substantial professional writing samples.
5. Submit an essay explaining how and why obtaining the MPH degree would contribute to the student’s career goals.
6. Completed applications are reviewed twice each year. The Department of Health Sciences deadlines are March 1 for fall admission and October 1 for spring admission. UAA admission must be successfully processed before the Department of Health Sciences will consider an application complete. The UAA process may take as long as four months, so applicants are encouraged to apply to the university first and early.

Note also that:
1. To the extent that there are limited positions available in the program, preference may be given to residents of the state of Alaska as defined by the university’s policy on residency for tuition purposes.
2. Preference may also be given to applicants with two or more years work experience in the field of public health. Such applicants must submit documentation of their public health-related work experience, and a request for special consideration to the admissions committee.

Academic Progress
In order to maintain satisfactory academic progress toward the degree, a student in the MPH program is expected to complete a minimum of 6 semester credits each academic year, beginning with the first semester of enrollment. For satisfactory academic progress, the 6 semester credits may consist of prerequisite courses or program courses. Failure to comply with the 6 credit minimum each academic year may result in the student being removed from the degree program. See the beginning of this chapter for additional requirements to remain in good standing, and to maintain satisfactory academic progress toward the degree.

Graduation Requirements
See University Requirements for Master’s Degrees at the beginning of this chapter.

Program Requirements
1. Complete the MPH core courses (33 credits total):
   - HS A605  Public Health and Society 3
   - HS A610  Environmental and Occupational Health 3
   - HS A615  Health Services Administration 3
   - HS/NS A625  Biostatistics for Health Professionals 3
   - HS/NS A626  Principles of Epidemiology 3
   - HS/SWK A628  Program Evaluation 3
   - HS A629  Public Health Research Tools and Methods 4
   - HS A630  Public Health Emergencies and Disasters 3
   - HS A690  Selected Topics in Public Health (1-4) 3
   - HS A699  Thesis Practicum 5
2. Complete the interdisciplinary emphasis (9 credits total):
   Three focused public health-related elective courses at the 600-level (graduate) with advisor approval.
3. A total of 42 credits are required for the degree.

Faculty
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School of Social Work
Gordon Hartlich Hall (GHH), Room 106, (907) 786-6900
http://socialwork.uaa.alaska.edu

The mission of the UAA Master of Social Work program is to prepare advanced generalist social workers who enhance human well-being and promote social and economic justice for people of all backgrounds, particularly those in Alaska. Alaska’s unique and rich multicultural populations, geographic remoteness, and frontier status allow the real potential for skilled social work professionals to make a profound impact on social and economic injustice in our state. The MSW program is accredited by the Council on Social Work Education (CSWE). The program is reviewed by CSWE for reaffirmation on a regular basis.

Based upon the mission established for the MSW program, the program goals are to prepare advanced generalist social work practitioners who are:
- Competent in multiple practice roles across client systems, particularly within the state of Alaska.
- Committed to the enhancement of human well-being.
- Committed to the promotion of social and economic justice for people of all backgrounds, particularly those in Alaska.
- Guided by the values and ethical standards of the social work profession.
- Prepared to enhance the quality of service delivery systems.
- Knowledgeable, skilled, and sensitive with people from diverse backgrounds.
MSW program admission and curriculum requirements are consistent with MSW licensing requirements in the state of Alaska. The MSW program does not grant social work course credit for life experience or previous work experience.

The MSW degree is structured to allow students to participate in full-time, part-time, or distance education plans requiring from one to four years of study, dependent upon prior academic preparation for graduate studies in social work. The foundation curriculum is comprised of 32 semester credits and is required for students who have not earned a baccalaureate degree in social work from an accredited program within the last seven years. The foundation curriculum is sequenced to provide professional preparation for advanced generalist social work education. All students will waive, test out, or successfully complete all courses required in the foundation curriculum of the program. Students who have earned a Bachelor of Social Work from a CSWE accredited program within the past seven years and who are judged to be ready for advanced graduate studies may be admitted with advanced placement to the concentration curriculum. The concentration curriculum is comprised of 31 credits and is required for all MSW students. All students entering the program will have an official graduate studies plan tailored to meet their own educational needs.

**MASTER OF SOCIAL WORK**

**ADMISSION REQUIREMENTS**

1. Deadline for application: January 15. This is the only application date for the year. Admission review is performed once a year following the January 15 deadline for application.
2. Submit UAA graduate application for admission with fee and meet requirements found at the beginning of this chapter.
3. Submit complete undergraduate transcripts demonstrating an earned bachelor's degree from an accredited college or university.
4. Submit the complete MSW admissions packet, available through the School of Social Work.
5. Admission to the MSW program with advanced standing status must be exercised within seven years of receiving the BSW degree.
6. Successful completion of Departmental Honors in Social Work in the UAA BSW Program earns the right to waive a regular review of an admission packet to the foundation curriculum of the Master of Social Work program. Students are responsible for completing a UAA Graduate Application for Admission and a program application for admission to the MSW program. The application packet should be submitted to the MSW Admissions Committee by the application deadline, with request to waive the regular review process. Admission to the full program will be granted if the applicant meets all of the requirements for departmental honors. Honors students interested in admission with advanced standing must apply for this status. The MSW program reserves the right to request additional materials and/or interviews pertaining to program admission.

**LIBERAL ARTS REQUIREMENTS FOR ADMISSIONS**

The MSW program requires that all incoming students have successfully completed a baccalaureate degree in the liberal arts from an accredited institution of higher learning. The liberal arts baccalaureate should include successful coursework in the following areas:

1. Two university courses in the humanities (history, philosophy, languages, literature, or similar disciplines);
2. Two university courses in the social sciences (political sciences, sociology, anthropology, psychology, or similar disciplines, see note below concerning human development);
3. One university course in the fine arts (music, theater, art appreciation or similar disciplines);
4. One university course in oral communication;
5. One university course in written communication;
6. Two university courses in the natural sciences and/or mathematics (biology, chemistry, physics, geology, astronomy or from similar disciplines; algebra, calculus, trigonometry, statistics, or similar disciplines, see notes below concerning human biology and statistics).
7. A minimum of 45 semester credits or 68 quarter credits which in total reflect the courses identified in the above list of liberal arts classes. The remaining earned academic credits can be distributed in any combination of course work.

As part of the liberal arts preparation, the MSW program has established the following three specific prerequisites to admission: prior coursework in human biology (one course); human development over the entire life span (one course); and applied statistics (one course). The human biology and human development courses provide educational background for understanding the bio-psycho-social determinants of human behavior. The applied statistics course provides exposure to objective knowledge development. A minimum grade of C is required for each of the prerequisite courses.

Admission to the MSW degree program is based on the professional judgment of the social work faculty. Only students eligible to be licensed in the state of Alaska will be admitted to the MSW degree program. Please contact the department for further information.

**ACADEMIC PROGRESS**

To maintain satisfactory progress toward the degree, a student in the MSW program is expected to achieve a GPA of 3.00 or better on a 4.00 scale, with no individual course grade lower than a C, and to adhere to the Code of Ethics of the National Association of Social Workers. Students must earn a grade of B or better in all field practicum courses (SWK A644, SWK A645, SWK A646, SWK A647, SWK A639).

Field placements may become competitive if the number of applicants exceeds the number of spaces. The program and agencies also reserve the right to refuse and/or terminate students who do not meet a minimum standard of performance. Thus, while the School of Social Work makes every effort to find appropriate field placements for students, admittance to the MSW program does not guarantee acceptance by cooperating social services agencies.

**TRANSFER CREDITS**

Up to 9 semester credits from a CSWE-accredited MSW program may be transferred to UAA and counted toward degree completion. Quarter credits will be converted to semester credits by multiplying quarter credits by two-thirds.

**CANDIDACY FOR A MASTER OF SOCIAL WORK DEGREE**

1. Refer to Advancement to Candidacy criteria found at the beginning of this chapter.
2. Submit the Application for Advancement to Candidacy packet available through the School of Social Work.
3. Successfully complete MSW comprehensive examination, given in the Advanced Generalist Integrative Seminar (SWK A635) during spring semester of the concentration year of the program.

**GRADUATION REQUIREMENTS**

1. See the beginning of this chapter for University Requirements for Master's Degrees.
2. Successful completion of research project (SWK A698).
3. Successful completion of all required academic coursework specified on the Official Graduate Studies Plan, with a GPA of 3.00 or better, no course grade lower than a C, and no practicum course grade lower than a B (SWK A644, SWK A645, SWK A646, SWK A647, SWK A639).

**PROGRAM REQUIREMENTS**

The following outlines course requirements for the full-time program plan. Students admitted to the program on a part-time basis or in the distance-delivered program take from 2 to 7 credits each semester: fall,
The Graduate Certificate in Social Work Practice prepares MSW graduates to practice clinical social work using social work principles and methods to assist in the treatment of mental and emotional conditions of individuals, families or groups. The certificate includes the option of 50 hours of post-MSW group supervision of clinical social work practice. The 15-credit graduate certificate uses the MSW program elective sequence as a platform for developing advanced knowledge and skills for clinical social work practice and partially preparing students for licensure as a licensed clinical social worker (LCSW) in Alaska. Courses are offered on a two-year rotation, including evening, weekend and summer intensives. Group supervision courses are offered between January and December, meeting weekly for 1.25 hours. Students must be in post-MSW practice to participate in group supervision. Application deadline is November 15 for a spring semester start date.

ADMISSION REQUIREMENTS
Applicants for the Graduate Certificate in Clinical Social Work Practice must:
1. Be in the concentration year of the UAA MSW program or have completed an MSW degree from a program accredited by the Council on Social Work Education (CSWE);
2. Have a cumulative grade point average of B (3.00 on a 4.00 scale);
3. Provide a written summary of social work practice experience and career goals; and
4. Be eligible for licensure in Alaska.

CURRICULUM REQUIREMENTS
Total = 15 credits:
1. Required courses (7 credits):
   - SWK A663 Clinical Social Work with Children and Adolescents 2
   - SWK A651 Social Work Practice in Addictions and Mental Health 3
   - SWK A664 Clinical Social Work with Adults 2
2. Plus completion of 8 credits from the following: 8
   - SWK A656 Treatment of Families (3)
   - SWK A672 Social Work with Families and Couples (2)
   - SWK A665 Comparative Group Work (3)
   - SWK A667 Clinical Group Therapy (2)
   - SWK A668 Group Supervision I (1)
   - SWK A669 Group Supervision II (1)
   - SWK A670 Group Supervision III (1)

CERTIFICATE COMPLETION REQUIREMENTS
Students enrolled in the graduate certificate program are required to complete the curriculum requirements with a cumulative GPA of 3.00 or better.

STUDENT OUTCOMES
The program is designed to expand the diversity of clinical experiences and allows students to increase confidence in their clinical judgment through clinical supervision. The program provides the opportunity for students to enhance their practice skills and to mature in their professional use of self.
In the program the students demonstrate their abilities to:
- Practice within the legal and ethical parameters of the profession.
- Identify clients who are at risk and intervene properly.
- Apply a variety of theories and use a variety of methods in their practice.
- Maintain integrity in all aspects of their practice.
- Define their professional stance vis-à-vis the realities of the practice environment.
- Define and accept their practice limitations.
- Develop a concept and a plan for their future professional development.

GRADUATE CERTIFICATE IN SOCIAL WORK MANAGEMENT
The Graduate Certificate in Social Work Management prepares MSW graduates to be managers in social service settings. Students develop advanced knowledge and skills in organizational practice, supervisory management, leadership and decision making, marketing in the social...
GRADUATE PROGRAMS, COMMUNITY AND TECHNICAL COLLEGE

sector, financial resource development, budgeting and fiscal management. The curriculum is based on the Leadership and Management Practice Standards established by the National Network for Social Work Managers. Application deadline is November 15 for a spring semester start date.

ADMISSION REQUIREMENTS
Applicants for the Graduate Certificate in Social Work Management must:

1. Be in the concentration year of the UAA MSW program or have completed an MSW degree from a program accredited by the CSWE;
2. Have a cumulative graduate GPA of 3.00 (B average on a 4.00 scale);
3. Provide a written summary of social work practice experience and career goals.

CURRICULUM REQUIREMENTS
Total = 15 credits:

1. MSW Required Course (3 credits):
   SWK A634  Organizational Practice  3
2. MSW Elective Courses (12 credits):
   SWK A654  Supervisory Management in Social Work  3
   SWK A659  Leadership and Decision Making in Social Work  3
   SWK A660  Financial Leadership for Social Work Administrators  2
   SWK A661  Marketing in the Social Sector  2
   SWK A662  Financial Resource Development for Social Services  2

CERTIFICATE COMPLETION REQUIREMENTS
Admitted students are required to complete the curriculum requirements for the graduate certificate with a cumulative GPA of 3.00 or better.

STUDENT OUTCOMES
Graduates of the Graduate Certificate in Social Work Management will be able to demonstrate the knowledge and skills to perform organizational social work practice roles using multiple interventions directed at multiple levels. They will be able to:

- Demonstrate the role of leadership and decision making in social service organizations;
- Apply supervisory management skills at multiple levels within an organization;
- Integrate budget development and fiscal analysis into social services program planning;
- Utilize social sector marketing concepts to enhance the mission of their respective programs and organizations; and
- Design and implement financial resource development plans for social programs/social service agencies.

FACULTY
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COMMUNITY AND TECHNICAL COLLEGE

GRADUATE CERTIFICATE, DIETETIC INTERNSHIP
Lucy Cuddy Hall (CUDY) 126 (907) 786-4728
www.uaa.alaska.edu/ctc/culinary/prgms/dietetic

The UAA Dietetic Internship, with a concentration emphasis on Alaska Native culture and Alaska healthcare delivery systems, developmentally accredited by the Commission on Accreditation for Dietetics Education (CADE), offers the supervised practice experience required by the American Dietetic Association (ADA) to sit for the Registered Dietitian (RD) examination. The UAA Dietetic Internship offers unique experiences as it places emphasis on awareness of the cultural diversities of Alaska and how they affect the practice of dietetics.

The UAA Dietetic Internship is highly competitive, full-time, 40-hour per week program. The program begins in the fall semester and runs mid-August through mid-April. The students partake a total of 15 graduate credit hours through attending a weekly seminar at UAA and by completing their supervised practicum experience at rotation sites in Anchorage and the surrounding communities.

PROGRAM OUTCOMES
At the completion of this program, students are able to:

- Demonstrate ability to adapt to the ever-changing scientific, technical and professional environment, including knowledge of public policy, legislative issues, ethics and lifelong learning. [Professional skills]
- Practice communicating effectively through the development of writing, speaking, listening, and problem solving skills. [Communication skills]
- Integrate efficient and effective use of techniques and tools for managing foodservice systems in a variety of situations. [Foodservice management]
- Apply knowledge and skills in medical nutrition therapy in a variety of settings. [Clinical nutrition]
- Design interventions to combine knowledge and skills in community nutrition that enhance health and promote wellness. [Community nutrition]
- Recognize the impact of Alaska Native culture and Alaska’s unique healthcare delivery system on the practice of dietetics in Alaska. [Specialty emphasis]
- Pass (national) registration examination, over a five-year period, on the first attempt 80 percent of the time.*
- Achieve a knowledge-based score of at least “satisfactory” on evaluation by employers of alumni.*
- Indicate feelings of being “well-prepared” for practice as a registered dietitian (program alumni).*

*These outcomes are required by the Commission on Accreditation for Dietetics Education, the accrediting body for the UAA DI.

Upon successful completion of all parts of the dietetic internship, students are given an ADA Verification Statement showing completion of the internship. With the Verification Statement graduates can apply to take the RD examination.

ADMISSION REQUIREMENTS
See the beginning of this chapter for Admission Requirements for Graduate Certificates.
ADDITIONAL DEPARTMENTAL ADMISSION REQUIREMENTS

1. The application process adheres to the deadlines and procedures outlined by the American Dietetic Association. For the current year deadlines see the Dietetic Internship website: http://di.uaa.alaska.edu.
2. Baccalaureate degree (minimum) in dietetics or foods and nutrition.
3. Didactic Program in Dietetics Verification Statement within the past five years. Fulfill remedial education requirements (available upon request) if no coursework or work experiences in dietetics in five years prior to program admission.
4. GPA of 3.00 or higher (4.00 scale).
5. Evidence of ability and willingness to work productively (prior work or volunteer experience).
6. Current resume and three letters of recommendation (one must be from an employer and one must be from a professor or academic advisor).
8. Provide documentation of all necessary immunizations required to work in hospitals and other healthcare facilities.
9. Provide documentation of all necessary security background checks to meet state and federal requirements.
10. Provide documentation of necessary insurance coverage required to work in hospitals and healthcare facilities.
11. Acceptance into the program may become competitive if the number of applicants exceeds the number of intern spaces available. This program currently accepts four to five interns each academic year.

GRADUATION REQUIREMENTS

See the beginning of this chapter for Graduate Certificate University Requirements.

PROGRAM REQUIREMENTS

1. Complete the following courses:
   - DN A692A Seminar: Current Issues in Dietetics: Clinical and Community Nutrition 2
   - DN A692B Seminar: Current Issues in Dietetics: Community Nutrition and Foodservice Administration 1
   - DN A695C Practicum in Clinical Nutrition 4
   - DN A695D Practicum in Community Nutrition 2
   - DN A695E Advanced Practicum in Community Nutrition 2
   - DN A695F Practicum in Foodservice Administration 4
2. A total of 15 credits is required for this certificate

FACULTY

Carrie King, Assistant Professor, AFDCK@uaa.alaska.edu

CAREER AND TECHNICAL EDUCATION

MASTER OF SCIENCE, CAREER AND TECHNICAL EDUCATION

University Center (UC), Room 130, (907) 786-6423
www.uaa.alaska.edu/ctc/career/mscte.cfm

The Master of Science in Career and Technical Education program at UAA provides instruction for teachers, administrators, industry trainers, and workforce development professionals specializing in career and technical education at the secondary and postsecondary level. Face-to-face and distance delivery options meet the learning needs of students while making instruction available statewide. Internships are available for students interested in updating their skills in an aspect of industry. Each student's program is jointly designed by the student and a faculty advisor.

Upon completion the graduate will be able to:

- Defend a philosophy of career and technical education using literature and personal experience.
- Facilitate discussions on and advocate for or argue against career and technical education.
- Design and implement curriculum using methodology that meets the needs of diverse learners.
- Develop, organize, and critically analyze research for a specific audience.
- Apply leadership and management theory through research and practice in organizations.
- Incorporate technology to facilitate learning.

ADMISSION REQUIREMENTS

1. See the beginning of this chapter for Admission Requirements for Master's Degrees.
2. Complete a writing exercise.
3. Participate in a program interview with faculty advisor.

GRADUATION REQUIREMENTS

1. See the beginning of this chapter for University Requirements for Master's Degrees.
2. Complete 36 credits of approved coursework (up to 9 credits may be at the 400 level).
3. Complete, present, and obtain approval from graduate committee for individual research project or thesis.
4. Pass an oral or written examination based on the core program of study.

PROGRAM REQUIREMENTS

1. Develop an Official Graduate Studies Plan with faculty advisor and obtain approval before completion of more than 9 credits of coursework.
2. Complete the Career and Technical Education core courses (12 credits):
   - CTE A611 Historical and Philosophical Foundations of Career and Technical Education 3*
   - CTE A633 Current Issues in Career and Technical Education 3
   - CTE A643 Teaching in Career and Technical Education 3
   - CTE A655 Curriculum Assessment in Career and Technical Education 3
3. Complete a component in human resources and leadership using one of the following courses (3 credits):
   - BA A632 Organizational Behavior and Human Resource Management 3
   - EDL A637 Educational Leadership and Organizational Behavior (3
   - PADM A610 Organizational Theory and Behavior (3
   - Other human resources/leadership class with approval by faculty adviser (3
4. Complete a technology education component using one of the following courses (3 credits):
   - EDET A637 Design of e-Learning (3
   - EDET A638 Facilitation of Learning with Technology (3
   - Other technology course with approval by faculty advisor (3
5. Complete the following research courses (9 credits):
   - EDRS A660 Fundamentals of Research in Education 2
EDRS A664   Developing and Writing Literature Reviews  2
Another research course with approval by faculty advisor  2
CTE A698   Individual Research (1-6)  3
or
CTE A699   Thesis (1-6)  3

6. Complete 9 credits of electives jointly selected with the graduate advisor. Electives may be in a technical area.
7. A total of 36 credits is required for the degree.

FACULTY
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Sally Spicker, Assistant Professor, AFDDS@uaa.alaska.edu

SCHOOL OF ENGINEERING

The School of Engineering offers graduate degrees in Arctic engineering, civil engineering, engineering management, science management, applied environmental science and technology, and project management. The three engineering degree programs require a baccalaureate degree in engineering for admission while the two science degree programs require a baccalaureate degree in science as an entrance requirement. The Project Management program requires a baccalaureate degree in engineering, science, or equivalent areas. The graduate offerings of the School of Engineering are scheduled to accommodate evening students. As a result the graduate programs normally require two or more years for completion. A project or thesis may be required as a part of each graduate program within the School of Engineering.

APPLIED ENVIRONMENTAL SCIENCE AND TECHNOLOGY

Engineering Building (ENGR), Room 201, (907) 786-1900
www.engr.uaa.alaska.edu/programs/environmental

The graduate program in applied environmental science & technology (AEST) is designed for students seeking careers as environmental professionals in the academic, regulatory, industrial, military, or consulting sectors. The program is interdisciplinary in nature, and encourages candidates to develop an understanding of environmental principles through advanced studies in biology, chemistry, geology, statistics and environmental engineering.

This program offers a graduate certificate and two degree options:

GRADUATE CERTIFICATE, ENVIRONMENTAL REGULATIONS AND PERMITTING

The UAA Graduate Certificate in Applied Environmental Science & Technology (AEST) program offers a cohesive sequence of courses in key federal environmental laws and regulations and federal and state environmental permitting. The series is intended to provide specialized education to enhance the knowledge and practical understanding of environmental regulations and the permitting process. Upon completion of the certificate program, students will have specialized knowledge and skills applicable to Alaska and other areas in the United States.

STUDENT OUTCOMES

Students will be able to:
1. Apply the principles and requirements of major federal environmental laws and regulations, including the National Environmental Policy Act (NEPA) and the Clean Water Act (CWA), and state laws and regulations to projects, policy changes and other applicable activities,
2. Synthesize practical challenges facing applicants, policy-makers, agency personnel and the public in working with federal and state laws and regulations,
3. Understand the environmental data needs and data management options associated with federal and state permitting requirements for proposed development projects,
4. Specify NEPA, CWA and other state and federal permitting requirements for Alaska-based projects,
5. Understand and anticipate the positions and interests of various Alaska stakeholders (including government policy-makers, agency personnel, industry, municipalities, nongovernmental organizations and the general public) to facilitate conflict resolution potentially encountered during the regulatory and permitting process.
PROGRAM OBJECTIVES AND EXPECTED OUTCOMES
The objective of the AEST program is to produce graduates who:

- Have an advanced technical knowledge of environmentally related disciplines within the life sciences, physical sciences, geosciences, mathematics and environmental engineering;
- Are capable of integrating advanced technical information from different science and engineering disciplines;
- Are capable of conceiving and conducting a research project (MS-AEST option only); and
- Are capable of working in a professional environment.

In keeping with these objectives, the expected outcome of the AEST program is that the graduates will have:

- An ability to use advanced methods of analysis;
- An ability to understand and apply advanced environmental engineering theory;
- An ability to understand and apply advanced scientific theory;
- An ability to integrate advanced technical information from different science and engineering disciplines;
- An ability to conduct advanced environmental science research (MS-AEST option only); and
- An ability to manage projects and function in a professional environment.

ADMISSION REQUIREMENTS
See the Admissions Requirements for Master’s Degrees at the beginning of this chapter. In addition, students must meet the requirements specified below.

In order to be considered for full admission into the program, students will be able to demonstrate:

- Successful completion of a Bachelor of Science degree from a regionally accredited undergraduate program;
- A minimum undergraduate GPA of 3.00 in the natural/physical sciences or engineering;
- Successful completion of two or more consecutive semesters (or equivalent) in two of the following subject areas: chemistry, physics, biology, or geology;
- Successful completion of one or more year of calculus; and
- Satisfactory verbal and quantitative GRE scores as determined by the admissions committee. The general GRE requirement may be waived at the discretion of the admissions committee for applicants with five or more years of professional experience in environmental engineering, environmental science, or a related field.

In most instances, undergraduate degrees in the physical sciences, life sciences, or engineering will provide sufficient background to meet course prerequisites. Students without the appropriate background to meet course prerequisites may be required to complete undergraduate courses that will not be applied toward the graduate degree.

Applicants not meeting the admissions requirements may be provisionally accepted at the discretion of the admissions committee. In this case, the candidate’s continuation in the program after the first semester will be contingent upon successful completion of a student-specific remedial plan formulated by the admissions committee.

APPLICATION PROCEDURES
All application materials must be received by the UAA Office of Admissions, per department request, by March 1 for fall admission, and October 1 for spring admission. The required application materials to be submitted to the Office of Admissions include:

- A completed UAA graduate application form;
- Official transcripts of all college-level work;
- Official GRE scores (general examination or subject-specific in a relevant subject area)

In addition, please submit to the School of Engineering:

- Three letters of recommendation from people familiar with the applicant’s technical aptitude; and
- A one-page statement of the applicant’s career goals.

BEGINNING THE PROGRAM
Upon admission to the AEST program, students will complete the following actions:

- Meet with an academic advisor prior to the start of classes to plan coursework for the first semester of study. Academic advisors will be assigned by the admissions committee, and named in the acceptance letters sent to successful applicants;
- Select a graduate study committee (GSC) consisting of three UAA faculty members, to be chaired by the student’s academic advisor. The GSC must be selected during the first semester of study; and
- Prepare a Graduate Study Plan that the students will decide whether to pursue the MS-AEST or the M-AEST degree.
The study plan will include core competency courses and technical electives designed to meet the student's professional or research interests. The approved study plan and any subsequent changes should be submitted to the associate dean of graduate studies of the SOE, a copy filed in the department office, and the original sent to the Office of the Registrar.

**Course Requirements**

Courses for the AEST program must be selected from the following list of approved courses. In order to ensure that the students achieve a balanced graduate education, at least one course must be completed with a grade of B or better in each of the core competency areas: analysis, biology, chemistry, environmental engineering, and geology. The remaining technical elective credits can be selected from any of the approved courses listed below. A minimum of 21 credits must be drawn from approved 600-level courses.

**Analysis**

- ESM A620 Statistics for ESM (3)
- STAT A402 Scientific Sampling (3)
- STAT A403 Regression Analysis (3)
- STAT A404 Analysis of Variance (3)
- STAT A405 Nonparametric Statistics (3)
- STAT A407 Time Series Analysis (3)
- STAT A408 Multivariate Analysis (3)
- STAT A601 Statistical Methods (3)

**Biology**

- BIOL A478 Biological Oceanography (4)
- BIOL A650 Advanced Microbial Ecology (3)
- BIOL A661 Advanced Molecular Biology (3)
- BIOL A677 Advanced Tundra and Taiga Ecosystems (3)
- BIOL A690 Advanced Lecture Topics in Biology (1-3)

**Chemistry**

- AEST A601 Aquatic Process Chemistry (3)
- CHEM A450 Environmental Chemistry (3)
- CHEM A634 Advanced Instrumental Methods (4)
- CHEM A641 Advanced Biochemistry I (3)
- CHEM A642 Advanced Biochemistry II (3)

**Environmental Engineering**

- AEST A602 Water Quality Management (3)
- AEST A603 Solid Waste Management (3)
- AEST A604 Environmental Law, Regulations and Permitting (3)
- AEST A605 National Environmental Policy Act (3)
- AEST A606 Clean Water Act (3)
- AEST A608 Fundamentals of Air Pollution (3)
- AEST A613 Remediation (3)
- AEST A694 Topics as approved by advisor (3)
- CE A441 Introduction to Environmental Engineering (3)
- CE A600 Fundamentals of Environmental Science and Engineering (3)
- CE A662 Surface Water Dynamics (3)
- CE A663 Ground Water Dynamics (3)
- CE A674 Waves, Tides, and Ocean Processes for Engineers (3)
- CE A677 Coastal Measurements and Analysis (3)
- CE A683 Arctic Hydrology and Hydraulic Engineering (3)
- ENVE F651 Environmental Risk Assessment (3) (UAF Online Course)*
- ENVE F652 Introduction to Toxicology for Engineers and Scientists (3) (UAF Online Course)*
- ESM A450 Economic Analysis and Operations (3)
- ESM A601 Engineers and Organizations (3)
- ESM A605 Engineering Economy (3)
- PM A601 Project Management Fundamentals (3)

**Geology**

- GEOL A455 Permafrost (3)
- GEOL A457 Soil Genesis and Classification (4)
- GEOL A460 Environmental Geochemistry (3)
- GEOL A475 Environmental Geophysics (3)
- GEOL A690 Graduate Topics in Geology (1-4)

**Thesis**

AEST A699 AEST Thesis (1-6)

Alternate courses may be used to meet the course requirement(s) on approval by the student's graduate committee.

*UAF courses will be considered as resident credit. It is the student's responsibility to check the UAF catalog for current course content and availability.

**Graduation Requirements (MS-AEST Degree)**

In order to receive an MS-AEST degree, students must:

1. Satisfy all University Requirements for the Master's Degrees listed at the beginning of this chapter;
2. Advance to candidacy prior to the beginning of the semester in which the student intends to graduate. Advancement to candidacy for the MS-AEST degree will require approval of a thesis research proposal by the graduate committee;
3. Complete 24 credits of coursework approved in advance by the student's graduate committee, and 6 credits of thesis work approved through the advancement to candidacy process. Thesis credits are accumulated under the course number AEST A699. Once a student has successfully advanced to candidacy for the MS-AEST degree, that student may not opt to complete their degree under the nonthesis option; and
4. Satisfactorily complete an oral comprehensive examination (thesis defense) during the final semester prior to graduation.

All thesis research must meet the following requirements:

- The work must contribute to the body of knowledge in the candidate's graduate field of study. A literature search is required to demonstrate how the work is associated with the current state of the art in the candidate's graduate field of study.
- The thesis, as judged by the graduate committee, must be of sufficient quality to justify publication in either a peer-reviewed technical conference proceeding or a peer-reviewed journal. Publication of a manuscript in a journal or conference paper is not a requirement for graduation, but submissions will be encouraged.
- The work must demonstrate command of knowledge and skills associated with the candidate's graduate program of study.
- The work must require a level of effort consistent with 6 credit hours (Approximately 45 to 60 hours per credit hour, 270 hours to 360 hours total).
- The thesis format must meet general UAA requirements for format as determined by the UAA Consortium Library.

The student must defend the thesis in an oral presentation to the student's graduate committee and invited guests. The thesis defense serves as the student's required comprehensive examination. The student may select an outside reviewer approved by the dean or designee of the program to participate in the oral comprehensive examination to assure that the examination, defense, or scholarship evaluation is fair and appropriate. The outside reviewer is a faculty member from another department in the university or other qualified individual in the area in which the student is seeking a degree.

The student's graduate committee will work with their graduate advisor to develop an action plan to correct any deficiencies noted in the comprehensive examination. This action plan may require additional coursework, research and/or independent and directed study. After completing the items identified in the corrective
action plan, the student will again take the comprehensive examination. Failure to pass a second time will result in dismissal from the program.

**GRADUATION REQUIREMENTS (M-AEST DEGREE)**

In order to receive an M-AEST degree, students must:

1. Satisfy all University Requirements for the Master's Degrees listed at the beginning of this chapter;
2. Advance to candidacy prior to the beginning of the semester in which the student intends to graduate. Advancement to candidacy for the M-AEST degree does not require a research proposal;
3. Complete 30 credits of coursework approved in advance by the student's graduate committee; and
4. Satisfactorily complete a written comprehensive examination during the final semester prior to graduation.

When a student is within one semester of completing the course requirements, the graduate committee will administer a comprehensive examination to evaluate the candidate's knowledge of advanced environmental science principles. The examination will be developed by a graduate faculty committee and will contain questions consistent with the student's coursework areas of concentration. The student may select an outside reviewer approved by the dean or designee of the program to participate in the examination to assure that the examination is fair and appropriate. The outside reviewer is a faculty member from another department in the university or other qualified individual in the area in which the student is seeking a degree.

Students who fail to pass the comprehensive examination will work with their graduate advisor to develop an action plan to correct any deficiencies noted in the comprehensive examination. This action plan may require additional coursework, research and/or independent and directed study. After completing the items identified in the corrective action plan, the student will again take the comprehensive examination. Failure to pass a second time will result in dismissal from the program.

**FACULTY**

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John Olafsson, Professor, AFJAO@uaa.alaska.edu

**ARCTIC ENGINEERING**

Engineering Building (ENGR), Room 201, (907) 786-1900  
www.engr.uaa.alaska.edu/programs/arctic

The Arctic engineering program is designed to provide graduate education for engineers who must deal with the unique challenge of design, construction, and operations in the cold regions of the world. The special problems created by the climatic, geological and logistical conditions of the Arctic and sub-Arctic require knowledge and techniques not usually covered in the normal engineering courses. Development of petroleum and other natural resources has accentuated the demand for engineers trained in northern operations, both from private industries involved in development and government agencies planning or regulating these activities. Of primary importance is a thorough knowledge of heat transfer processes and properties of frozen ground and frozen water, which are basic to most engineering activities in the Arctic. The areas of hydraulics, hydrology, materials and utility operations are also uniquely affected by Arctic considerations.

**MAJOR REQUIREMENTS**

The Master of Science of Arctic Engineering requires completion of a set of core courses that will prepare an engineer to understand and adapt prior engineering knowledge and skills to problems of cold regions. The program also allows students to study advanced elective courses in a particular area of special interest. Research activities carried out by faculty of the UAA School of Engineering provide opportunities for project reports dealing with current Arctic knowledge. A graduate advisory committee of at least three members is appointed to guide each admitted student to degree completion. Two members must be UAA Arctic Engineering faculty members. On successful completion of the program, students will have gained sufficient knowledge to:

1. Recognize natural conditions and engineering challenges that are unique to cold regions,
2. Interpret associated specialized language and units of measure,
3. Locate, interpret, and apply public information about the physical conditions of cold regions, physical
4. Apply fundamental physical principles for solutions to common cold regions engineering problems,
5. Assess need for complex specialized Arctic engineering solutions,
6. Determine physical and thermal properties, evaluate frost heave rates, and estimate heat flow in soils, prevent foundation failure due to seasonally frozen ground or permafrost by appropriate project site exploration and design of constructed features,
7. Determine mathematical and physical properties governing heat and mass transfer in cold climates,
8. Determine temperature profiles in structure walls, roofs, and foundations, predict moisture content and mass flow rates in structures,
9. Acquire, integrate, and interpret data from public archives regarding site conditions associated with planning and design of community utility systems and formulate field measurement programs to determine site conditions for planning and design,
10. Analyze properties of lake, river, and sea ice, predict behavior of ice under natural conditions, and predict ice forces on engineering structures, and
11. Apply the sum of specialized Arctic engineering knowledge and skills gained in the program toward solution of a practical engineering problem and report this to fellow specialists.

**ADMISSION REQUIREMENTS**

See the beginning of this chapter for Admission Requirements for Master's Degrees. All students admitted to the Arctic engineering program must have previously earned a baccalaureate degree in an engineering discipline with a cumulative GPA of at least 3.00. Admitted students are also responsible for completion of prerequisites for Arctic engineering program courses, which may not have been included in their undergraduate education.

**GRADUATION REQUIREMENTS**

See the beginning of this chapter for University Requirements for Master's Degrees.

1. Candidates must complete the following core courses (9 credits):
   - CE A603 Arctic Engineering* 3
   - CE A681 Frozen Ground Engineering 3
   - ME A685 Arctic Heat and Mass Transfer 3

   *Students who have completed CE A403 Arctic Engineering with a grade of C or better, or students who have passed the ES AC030 Fundamentals of Arctic Engineering or ES AC031 Introduction to Arctic Engineering before being admitted to the program must replace CE A603 with an elective, 3-credit course accepted by the student's graduate advisory committee.

2. Candidates must also complete at least three additional courses from the following Arctic engineering program elective courses (9 credits):
   - CE A682 Ice Engineering (3)
   - CE A683 Arctic Hydrology and Hydraulic Engineering (3)
   - CE A684 Arctic Utility Distribution (3)
   - CE A688 Snow Engineering (3)
   - ME A687 Arctic Materials Engineering (3)
3. Candidates must complete additional graduate electives (9 credits) in mathematical, science, or engineering subjects related to or supportive of the student’s program of study, as approved by the student’s advisory committee to fulfill the minimum 30-credit degree requirement. One technical undergraduate elective course at the 400 level may be applicable with prior permission of the student’s advisory committee and provided a grade of B or better is achieved. All coursework applied toward degree requirements must be approved by the student’s advisory committee.

4. Each student must complete the following course (3 credits) after advancement to candidacy is approved by their advisory committee. Advancement to candidacy requires prior approval of a project proposal by the student’s advisory committee:

   CE A686 Engineering Project (1-6) 3

   a. The Arctic engineering project must solve a practical engineering problem to the extent that original developments by the candidate are evident in the project report.
   b. The project problem and solution must be presented in the context of the current state of the art by means of a thorough review of pertinent literature.
   c. The project must include innovative components directly involving cold regions engineering.
   d. The project must have sufficient scope to clearly demonstrate the candidate’s advanced technical expertise in cold regions engineering.
   e. The project report must demonstrate command of knowledge and skills directly associated with the candidate’s graduate program of study.
   f. The written project report, in the judgment of the candidate’s advisory committee, must be publishable in the proceedings of a cold regions engineering specialty conference.
   g. The work must require a level of effort consistent with three semester hours of credit (approximately 45 to 60 hours per credit hour or 135 to 180 hours total effort).

5. A total of 30 credits is required for the degree.

FACULTY
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CIVIL ENGINEERING
Engineering Building (ENGR), Room 201, (907) 786-1900
www.engr.uaa.alaska.edu/programs/ce/ms

Students in the UAA civil engineering graduate program have two degree options from which to choose. The Master of Science in Civil Engineering (MSCE) degree is designed for students who wish to pursue research-oriented occupations or to eventually pursue a PhD degree, as well as to prepare for advanced professional engineering practice. The Master of Civil Engineering (MCE) degree is designed for students who wish to further emphasize engineering practice and prefer to substitute additional classroom education for graduate research experience.

MASTER OF SCIENCE, CIVIL ENGINEERING
PROGRAM OBJECTIVES AND EXPECTED OUTCOMES

The objectives of the UAA MSCE program are to provide graduates with:

1. Advanced technical knowledge within one or more of the recognized sub-disciplines of civil engineering;
2. Ability to conceive and conduct an advanced research program; and
3. Ability to effectively communicate research results.

In keeping with these objectives, the expected student learning outcomes of the UAA MSCE program include:

1. An ability to use advanced methods of analysis,
2. An ability to understand advanced civil engineering theory,
3. An ability to conduct advanced civil engineering research,
4. An ability to apply advanced engineering theory to the design of civil engineering systems, and
5. An ability to work effectively within the management framework of organizations responsible for the practice of engineering.

ADMISSION REQUIREMENTS
See the beginning of this chapter for Graduate School Admission Requirements and deadlines. All students must hold a baccalaureate degree in an engineering discipline.

ADVANCEMENT TO CANDIDACY
Advancement to candidacy requires approval of a program of study and a thesis proposal following no more than 9 credit hours of coursework applicable to the degree requirements.

GRADUATION REQUIREMENTS
In order to receive the Master of Science in Civil Engineering, students must complete 30 credits of course and thesis work approved in advance by the student’s graduate committee, of which 6 credits will be CE A699 Thesis. Students must complete at least one course in each of the core competency areas of analysis, theory, design, and project management with a grade of B or better. No more than one 400-level course may be included with prior approval of the student’s graduate committee.

Analysis

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<tr>
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<th>Credits</th>
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<tr>
<td>MATH A422</td>
<td>Partial Differential Equations</td>
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<td>MATH A423</td>
<td>Advanced Engineering Mathematics</td>
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<td>MATH A426</td>
<td>Numerical Methods</td>
<td>3</td>
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<td>STAT A402</td>
<td>Statistical Sampling</td>
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</tr>
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<td>STAT A601</td>
<td>Statistical Methods</td>
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<tr>
<td>AEST A601</td>
<td>Aquatic Process Chemistry</td>
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<tr>
<td>AEST A608</td>
<td>Fundamentals of Air Pollution</td>
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<tr>
<td>CE A600</td>
<td>Fundamentals of Environmental Science and Engineering</td>
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<td>CE A603</td>
<td>Arctic Engineering</td>
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<tr>
<td>CE A610</td>
<td>Engineering Seismology</td>
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<tr>
<td>CE A631</td>
<td>Structural Finite Elements</td>
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<td>CE A632</td>
<td>Structural Dynamics</td>
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<tr>
<td>CE A662</td>
<td>Surface Water Dynamics</td>
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<tr>
<td>CE A663</td>
<td>Ground Water Dynamics</td>
</tr>
<tr>
<td>CE A674</td>
<td>Waves, Tides, and Ocean Processes for Engineers</td>
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<td>CE A676</td>
<td>Coastal Engineering</td>
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<tr>
<td>CE A677</td>
<td>Coastal Measurements and Analysis</td>
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<tr>
<td>CE A682</td>
<td>Ice Engineering</td>
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<tr>
<td>CE A683</td>
<td>Arctic Hydrology and Hydraulic Engineering</td>
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<td>ME A664</td>
<td>Corrosion Processes and Engineering</td>
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Design

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<td>AEST A602</td>
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<td>AEST A603</td>
<td>Solid Waste Management</td>
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<tr>
<td>AEST A613</td>
<td>Remediation</td>
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<tr>
<td>CE A605</td>
<td>Chemical and Physical Water and Wastewater Treatment Processes</td>
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<td>CE A606</td>
<td>Biological Treatment Processes</td>
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<td>CE A611</td>
<td>Geotechnical Earthquake Engineering</td>
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<tr>
<td>CE A612</td>
<td>Advanced Foundation Design</td>
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<tr>
<td>CE A634</td>
<td>Structural Earthquake Engineering</td>
</tr>
<tr>
<td>CE A675</td>
<td>Design of Ports and Harbors</td>
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</tbody>
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Thesis Requirement
Each MSCE student must complete a 6-credit thesis after advancement to candidacy is approved by their graduate committee. The completed thesis must meet the following requirements:

1. The work must contribute to the body of knowledge in the candidate's field of graduate study.
   a. A literature search is required to show how the work is associated with the current state of the art in the candidate’s graduate field of study.
2. The thesis, as judged by the graduate committee, must be publishable in either peer-reviewed technical conference proceedings or a peer-reviewed journal.
3. The work must demonstrate command of knowledge and skills associated with the candidate’s program of graduate study.
4. The work must require a level of effort consistent with 6 credit hours. (Approximately 45 to 60 hours effort per credit hour, or 270 hours to 360 hours total effort).
5. The thesis proposal, submitted with the student’s application to candidacy, must present evidence that the above requirements will be satisfied and will generally consist of an introduction with an explicit problem statement, a literature review, and one or more sections describing the information, research, and analytical methods to be applied.
6. The thesis is to be defended by the student in an oral presentation to the student’s graduate committee and invited guests.

Elective Requirement
Each student must complete additional elective courses as approved in advance by their graduate committee to meet the requirement for 30 total credit hours.

Master of Civil Engineering

Program Objectives and Expected Outcomes
The objectives of the UAA MCE program are to provide graduates with:
1. Advanced technical knowledge within one or more of the recognized sub-disciplines of civil engineering;
2. Ability to conduct advanced engineering analysis and design; and
3. Ability to effectively communicate technical results.

In keeping with these objectives, the expected student learning outcomes of the UAA MSCE program include:
1. An ability to use advanced methods of analysis,
2. An ability to understand advanced civil engineering theory,
3. An ability to conduct advanced civil engineering research,
4. An ability to apply advanced engineering theory to design of civil engineering systems, and
5. An ability to work effectively within the management framework of organizations responsible for the practice of engineering.

Admission Requirements
See the beginning of this chapter for Graduation Admission Requirements and deadlines. All students must hold a baccalaureate degree in an engineering discipline.

Program Requirements
Complete 30 credits of coursework approved by the student’s graduate committee, of which 3 credits will be Civil Engineering Project (CE A686).

Graduation Requirements
In order to receive the Master of Civil Engineering degree, students must complete 30 credits of coursework approved in advance by the student’s graduate committee, of which 3 credits will be CE A686 Civil Engineering Project. Students must complete at least one course in each of the core competency areas of analysis, theory, design, and project management, as listed above, with a grade of B or better. No more than one 400-level course may be included with prior approval of the student’s graduate committee.

Civil Engineering Project Requirement
Within the last 9 credits applicable to the degree, each student must complete CE A686. The Civil Engineering project must solve a practical engineering problem to the extent that original developments by the candidate are evident in the project report.

Elective Requirement
Each student must complete additional elective courses as approved in advance by their graduate committee to meet the requirement for 30 total credit hours.

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EARTHQUAKE ENGINEERING

GRADUATE CERTIFICATE, EARTHQUAKE ENGINEERING

The UAA School of Engineering offers a sequence of courses leading to a Graduate Certificate in Earthquake Engineering. This certificate program is intended to provide specialized education to enhance the theoretical knowledge and practical skills of civil engineers to deal with earthquake-resistant structural design. Upon completion of the certificate program, students will have specialized knowledge and skills applicable to various aspects of earthquake engineering issues.

STUDENT OUTCOMES

Upon the completion of this certificate, students will be able to:

1. Evaluate seismograms and perform site response analysis.
2. Analyze earthquake characteristics and associated effects on structures, including linear and nonlinear responses.
3. Apply the basic principles for seismic design and construction of structures in accordance with the provisions of International Building Codes.
4. Understand the concepts of dynamic equations of motion and perform analysis for dynamic systems in civil engineering applications.
5. Evaluate dynamic soil properties; analyze ground response and soil-structure interaction effects, and other geotechnical engineering problems.
6. Evaluate the magnitude and distribution of seismic and other probable loads for strength, stress and load-resistant factor design.

ADMISSION REQUIREMENTS AND RELATED GRADUATE CERTIFICATE POLICIES

See the beginning of this chapter for Graduate Certificates University Requirements. Admission to the Earthquake Engineering Graduate Certificate program requires that a student must have earned a Bachelor of Science in an engineering discipline from an ABET, Inc.,-accredited institution in the United States or a foreign equivalent.

GRADUATION REQUIREMENTS

See the beginning of this chapter for Graduate Certificates University Requirements.

PROGRAM REQUIREMENTS

Complete the following requirements (15 credits):

- CE A610 Engineering Seismology 3
- CE A611 Geotechnical Earthquake Engineering 3
- CE A634 Structural Earthquake Engineering 3
- CE A636 Multi-Story Building Structural Design (3) 3
- or
- CE A637 Earthquake Resistant Structural Design (3)
- CE A639 Loads on Structures 3

FACULTY

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T. Bart Quimby, Professor, AFTBQ@uaa.alaska.edu
Zhaohui Yang, Assistant Professor, AFZY@uaa.alaska.edu

ENGINEERING MANAGEMENT AND SCIENCE MANAGEMENT

The Engineering Management and Science Management curriculum is designed for graduate engineers and scientists who will hold executive or managerial positions in engineering, construction, industrial, or governmental organizations. It includes human relations, financial, economic, quantitative, technical, and legal subjects useful in solving problems of management.

MASTER OF SCIENCE, ENGINEERING MANAGEMENT

MASTER OF SCIENCE, SCIENCE MANAGEMENT

ADMISSION REQUIREMENTS

See the Admissions Requirements for Master’s Degrees at the beginning of this chapter.

Students who are working toward the Master of Science in Engineering Management must hold a Bachelor of Science or Master of Science in an engineering discipline. Students enrolling in the Master of Science in Science Management must hold a Bachelor of Science or Master of Science in a scientific field. Students are expected to be proficient in the use of computers for word processing, spreadsheet analysis, and scientific calculations. A candidate should have had on-the-job experience in engineering or science.

GRADUATION REQUIREMENTS

Students must earn a 3.00 GPA in graduate courses that are part of the program. No course included in the credits of a student’s program may be counted toward another degree. A student may not repeat a course that is part of their program if they have received a C or better in that course.

PROGRAM REQUIREMENTS

Substitutions for one or more of the courses listed below may be permitted if similar courses are included in the student’s previous academic background. No more than 9 semester credits of appropriate graduate-level coursework completed at other institutions with a grade of A or B may be transferred and applied toward the total 30 credits of required and elective courses. Both substitutions and transfer of credit must be approved by the department.

1. Complete the following requirements:

   Core Curriculum (21 credits minimum)
   - ESM A601 Engineers in Organizations (3)
   - ESM A605 Engineering Economy (3)
   - ESM A608 Legal Environment for Engineering Management (3)
   - ESM A610 Cost Estimating (3)
   - ESM A620 Statistics for ESM or equivalent (3)
   - ESM A621 Operations Research (3)
   - PM A601 Project Management Fundamentals (PM fee) (3)

   Elective Curriculum (6 credits minimum)
   Any ESM/ PM/ Engineering / Science/ Business Administration or other graduate courses approved by the student’s ESM advisor.
   - ESM A613 Management of Technical People (3)
   - ESM A617 Technology Management (3)
   - ESM A619 Computer Simulation of Systems (3)
   - ESM A698 Individual Research (3)
2. To register for ESM A684 or ESM A699 students must have a 3.00 GPA or better in courses listed on their official graduate studies plans:

Nonthesis Option
Complete ESM A684 ESM Project.

Thesis Option
Complete 6-9 credits of ESM A699 ESM Thesis.
Both nonthesis option (project) and thesis option require a defense.

3. A minimum of 30 credits is required for the degree.

Questions:
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Steve Wang, Assistant Professor, AFHSW1@uaa.alaska.edu

PORT AND COASTAL ENGINEERING

The UAA School of Engineering offers a cohesive sequence of courses in the theory and practice of port and coastal engineering. The series is intended to provide specialized education to enhance the theoretical knowledge and practical skills of graduate engineers to deal with engineering problems of the coastal zone. Upon completion of the certificate program, students will have specialized knowledge and skills applicable in all the coastal zones and oceans of the world.

STUDENT OUTCOMES
Abilities to:
1. Characterize oceans, seas, and estuaries in terms of physical dimensions, sediments, water chemistry, major wind patterns and currents, and wave climate;
2. Plan and design port and harbor features suited to demands of vessels and cargo transfer operations and to local oceanographic and nearshore conditions;
3. Define nearshore coastal processes in terms of wind, wave, and current climates and their interaction with sediments and local features of the shoreline;
4. Quantify natural physical processes or human activities responsible for coastal erosion, and design shore protection works suited to the local environmental setting; and
5. Accomplish oceanographic and engineering data collection, including water level measurements and hydrographic surveys, analyze data, and interpret analytical results to define nearshore bathymetry, waves, tides, and coastal processes.

GRADUATE CERTIFICATE,
PORT AND COASTAL ENGINEERING

ADMISSION REQUIREMENTS AND RELATED GRADUATE CERTIFICATE POLICIES

See the beginning of this chapter for Graduate Certificate University Requirements.

Admission to the Port and Coastal Engineering Graduate Certificate program requires that a student must have earned a Bachelor of Science in an engineering discipline from an ABET, Inc.-accredited institution in the United States or a foreign equivalent.

GRADUATION REQUIREMENTS
See the beginning of this chapter for Graduate Certificates University Requirements.

PROGRAM REQUIREMENTS

Complete the following three courses and one of two alternative fourth courses, as noted (12 credits).

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<td>CE A674</td>
<td>Waves, Tides, and Ocean Processes</td>
<td>3</td>
</tr>
<tr>
<td>CE A675</td>
<td>Design of Ports and Harbors</td>
<td>3</td>
</tr>
<tr>
<td>CE A676</td>
<td>Coastal Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE A677</td>
<td>Coastal Measurements and Analysis (3)</td>
<td>3</td>
</tr>
<tr>
<td>GEO A433</td>
<td>Hydrographic Surveying (3)</td>
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</tbody>
</table>

A student who earns the Port and Coastal Engineering Graduate Certificate may apply up to 9 credits from the certificate program toward other graduate degrees at UAA.

FACULTY

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Thomas Ravens, Associate Professor, AFTMR@uaa.alaska.edu

PROJECT MANAGEMENT

University Center (UC), Room 155, (907) 786-1924
www.uaa.alaska.edu/espom

Project management has become essential in virtually all areas of business and industry, including engineering, construction, oil & gas, mining, communications, healthcare, information technology, utilities, education, military, government, transportation, retail and other sectors. While acknowledging and encouraging the application of project management skills and approaches in all these areas, the Master of Science in Project Management will concentrate on technology-driven projects.

The program is organized around the nine knowledge areas defined in the Project Management Body of Knowledge (PMBOK® Guide), a globally recognized standard for managing projects in today’s marketplace. The PMBOK® Guide is approved as an American National Standard (ANS) by the American National Standards Institute (ANSI). Students completing the program will be fully trained to plan and execute engineering and technology projects and to meet user requirements.

MASTER OF SCIENCE, PROJECT MANAGEMENT

ADMISSION REQUIREMENTS

See the Admissions Requirements for Master’s Degrees at the beginning of this chapter.
Admission to the graduate program in project management is offered to applicants who provide sufficient evidence that they meet the requirements for study at an advanced level. Applicants must meet the minimum admissions requirements of the University of Alaska Anchorage. In addition, an entering master’s student will normally have:

1. Earned at least a bachelor’s degree in engineering, science, or equivalent areas (as agreed to by the department chairman), from an accredited university with a minimum of a B average in the last two years of undergraduate work.
2. Completed an undergraduate statistics course with a B or better.
3. Become proficient in the use of computers for word processing and spreadsheet analysis.
4. Completed a minimum of two years of appropriate project management experience in a science or engineering related field.
5. Obtained three letters of recommendation from professors, former or current employers or supervisors who are familiar with the applicant’s work experience.
6. Provided a statement of professional career objectives related to the study of project management.

GRADUATION REQUIREMENTS
The University Requirements for Master’s Degrees must be met along with the program requirements that follow.

PROGRAM REQUIREMENTS
1. Complete the following requirements (33 credits):
   - PM A601 Project Management Fundamentals 3
   - PM A610 Project Scope Management 3
   - PM A612 Project Time Management 3
   - PM A614 Project Cost Management 3
   - PM A616 Project Quality Management 3
   - PM A620 Project Human Resource Management 3
   - PM A622 Project Communications Management 3
   - PM A624 Project Risk Management 3
   - PM A626 Project Procurement Management 3
   - PM A685 Project Management Case Study and Research 6

   It is strongly recommended that PM A601 - Project Management Fundamentals be taken in the student’s first semester.

   As a prerequisite for PM A685 registration, students must have a cumulative 3.00 GPA or better in courses listed on their official graduate studies plans.

2. A total of 33 credits is required for the degree.

Questions:
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Steve Wang, Assistant Professor, AFHSW1@uaa.alaska.edu
COURSE DESCRIPTIONS
Course Descriptions

ACCT - ACCOUNTING

Offered through the College of Business & Public Policy
Edward & Cathryn Rasmussen Hall (RH), Room 309, 786-4100
www.cbpp.uaa.alaska.edu/accounting.asp

Students taking any ACCT, BA, CIS, ECON, LGOP, LOG, or PADM course will be charged a single lab fee of $25 for the semester. Applies to Elmendorf AFB or Fort Richardson classes only when specifically noted on UAOntline. Does not apply to Chugach-Eagle River classes.

ACCT A051 Recordkeeping for Small Business 1 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Special Note: Does not satisfy any degree requirements even as an elective.

Provides an overview of what bookkeepers do and the role they provide to a small business. Includes basic accounting and bookkeeping practices in reformation of bank accounts, payroll, payroll taxes, application for federal identification numbers, state ESC numbers, business licenses, quarterly and annual reports, accounts receivable, depreciation, inventory, financial statements and income taxes.

ACCT A101 Principles of Financial Accounting I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: MATH A055 with minimum grade of C or approved UAA mathematics placement test score.
Special Note: ACCT A101 and ACCT A102 will satisfy requirement for ACCT A201. AAS accounting majors must take ACCT A101 and ACCT A102.

First semester introductory financial accounting. Emphasizes procedures for recording, analyzing, and summarizing accounting transactions. Includes discussion of the following asset categories: cash, accounts receivable, and inventory. Taught from the perspective of the accountant or bookkeeper who is responsible for recording accounting transactions.

ACCT A102 Principles of Financial Accounting II 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A101 with minimum grade of C.
Special Note: ACCT A101 and ACCT A102 will satisfy requirement for ACCT A201. AAS accounting majors must take ACCT A101 and ACCT A102.

Second semester introductory financial accounting. Emphasizes procedures for recording, analyzing, and summarizing accounting transactions dealing with long-term assets, current and long-term liabilities, as well as stockholder and partnership equity transactions, and the statement of cash flows. Taught from the perspective of the accountant/bookkeeper who is responsible for recording accounting transactions.

ACCT A120 Bookkeeping for Business I 3 CR
Contact Hours: 3 + 0
Special Note: May be offered as either classroom or open-entry, individualized course. Offered Fall Semesters.

Basic concepts and procedures of practical bookkeeping. Fundamental principles and practices necessary to record and report financial data in a service and merchandising business for manual systems and computerized systems.

ACCT A201 Principles of Financial Accounting 3 CR
Contact Hours: 3 + 0
Registration Restrictions: MATH A105 with minimum grade of C or approved UAA mathematics placement test score.
Special Note: ACCT A101 and ACCT A102 will satisfy the requirement for ACCT A201. AAS accounting majors must take ACCT A101 and ACCT A102.

Introduction to financial accounting concepts and principles. Emphasizes the recognition and recording of financial information, the creation and understanding of financial statements, and the role accounting information takes in business and society.

ACCT A202 Principles of Managerial Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: CIS A110 and [ACCT A101 with minimum grade of C and ACCT A102 with minimum grade of C] or ACCT A201 with minimum grade of C.

Studies the generation and analysis of accounting information and its use by managers as they engage in planning, control, and decision-making activities in business and non-business organizations. Topics include product costing, cost-volume-profit analysis, profit planning, variance analysis, and relevant costs for decision making.

ACCT A205 Principles of Managerial Accounting I 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A101 and ACCT A102.

Focuses on the preparation and use of operational financial statements. Topics include cost-volume-profit analysis, break-even analysis, and relevant costs for decision making. Taught from the perspective of the accountant or bookkeeper who is responsible for recording accounting transactions.

ACCT A210 Income Tax Preparation 3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCT A101 and ACCT A102] or ACCT A201 and CIS A110.

Preparation of individual income tax returns, manually and computerized (using the latest in tax preparation software). Tax research and tax planning with emphasis on primary and administrative sources of income tax law. Emphasis is on the sources and interpretation of the tax laws and principles as well as how they apply to individuals.

ACCT A216 Accounting Information Systems I 3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCT A101 with minimum grade of C and ACCT A102 with minimum grade of C] or ACCT A201 with minimum grade of C.

Studies the role and importance of the Accounting Information System (AIS) within an organization, including an in-depth examination of the accounting cycle from transaction initiation through financial statement preparation and analysis. Includes manual practice sets for hands-on application. Exposure to systems documentation, internal controls, fraud process, and classic accounting frauds and scandals.

ACCT A222 Introduction to Computerized Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCT A101 and ACCT A102] or ACCT A201 and CIS A110.

Special Fees.

Introduction to processing accounting information using commercial accounting software. Illustrates conversion from manual to computerized accounting system; includes maintenance of chart of accounts and all master files; processing sales, receivables, and cash receipts, purchases, payables, and cash payments; preparation of financial statements and other reports. Includes only minimal coverage of the payroll function.

ACCT A225 Payroll Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCT A101 and ACCT A102] or ACCT A201 and CIS A110.

Special Fees.

Introduces students to the federal and state laws and regulations that affect payroll and employment practices. Topics covered include calculation of wages, withholding taxes, health, retirement, and other voluntary deductions and preparation of payroll tax reports. Also includes recording and posting payroll information to accounting records.

ACCT A230 Workpaper Preparation and Presentation 3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCT A101 with minimum grade of C and ACCT A102 with minimum grade of C] or ACCT A222 with minimum grade of C and CIS A110 with minimum grade of C.

Emphasizes preparation and analysis of workpapers to support year-end corporate financial statements. Includes an in-depth analysis of major balance sheet accounts and a study of financial statement presentation formats and requirements.

ACCT A295 Entry-Level Accounting Internship 3 CR
Contact Hours: 0 + 9
Prerequisites: [ACCT A101 with minimum grade of C and ACCT A102 with minimum grade of C] or ENGL A111 and [COMM A111 or COMM A235 or COMM A237 or COMM A241].

Registration Restrictions: Permission of College of Business & Public Policy Accounting Faculty Internship Coordinator; Cumulative GPA of 2.75 or higher; must be an AAS Accounting major.

Grade Mode: Pass/No Pass.

Special Fees.
Special Note: May be repeated for credit, but only 3 credits will apply to degree requirements.

Work experience in an approved bookkeeping or clerical position with supervision and training in various phases of accounting.
ACCT A301 Intermediate Accounting I 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A202 with minimum grade of C and ACCT A216 with minimum grade of C.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

- In-depth study of the accounting sequence, principles and rules governing financial statements and balance sheet accounts including cash; receivables; inventory; property, plant and equipment; and intangibles.

ACCT A302 Intermediate Accounting II 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A301 with minimum grade of C.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

- A continuation of the study of intermediate accounting including the principles governing financial reporting of investments, liabilities, stockholders’ equity, revenues and cash flows.

ACCT A310 Income Tax 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A202 with minimum grade of C and ACCT A216 with minimum grade of C.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

- Special Fees.

ACCT A316 Accounting Information Systems II 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A202 with minimum grade of C and ACCT A216 with minimum grade of C.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

- Studies the Accounting Information System (AIS) as an integral component of an enterprise information system. Emphasizes data modeling and database design of accounting systems using the Resources-Events-Agents (REA) model as the springboard toward the design of AIS components in a relational database. Covers internal controls and systems documentation as aids to database design and modeling. Includes computerized practice set for hands-on application.

ACCT A342 Managerial Cost Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A202 with minimum grade of C.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

- Accounting as a planning and control device is studied by applying the concepts of cost flow, job order and process costing, flexible budgeting, standard cost analysis and relevant costing models.

ACCT A401 Advanced Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A302 with minimum grade of C.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

- The study of accounting for expanded business entities. Topics include: corporate purchase consolidations; partnership formation and dissolution; and foreign currency transactions, translations, and hedges.

ACCT A410 Advanced Income Tax 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A302 with minimum grade of C and ACCT A310 with minimum grade of C.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

- Special Fees.

ACCT A420 Fraud Examination 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A301.
Registration Restrictions: College of Business and Public Policy majors must be admitted to upper-division standing.

- Discusses nature of fraud and its impact on individuals and businesses. Examines fraud detection, investigation, and prevention techniques. Analyzes various types of fraud including employee embezzlement, management fraud, investment scams, vendor fraud, and customer fraud. Emphasizes the need for strong internal control systems, codes of ethics, and financial statement analysis techniques.

ACCT A430 Governmental and Non-Profit Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A301.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

- Special Note: Offered Fall Semesters.

ACCT A452 Auditing 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A302 with minimum grade of C and ACCT A316 with minimum grade of C.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

- Special Note: Offered Spring Semesters.

ACCT A453 Internal Auditing 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A302 and ACCT A342.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

- Special Note: Offered Fall Semesters.

ACCT A455 Advanced Accounting Internship 3 CR
Contact Hours: 0 + 9
Prerequisites: ACCT A301 with minimum grade of C.
Registration Restrictions: Must be admitted to the BBA Accounting Program; Permission of College of Business & Public Policy Accounting Faculty Internship Coordinator; upper-division standing; cumulative GPA of 2.75 or higher; Grade Mode: Pass/No Pass.

ACCT A460 Accounting Foundations for Executives 3 CR
Contact Hours: 3 + 9
Registration Restrictions: Graduate Standing.
Special Note: Offered Fall Semesters.

- A traditional survey of accounting for the core requirement in the MBA program. Covers common financial and managerial topics with brief exposure to systems, auditing, non-profit, partnerships and joint ventures.

ACCT A602 Seminar in Executive Uses of Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A601.
Registration Restrictions: Graduate Standing.
Special Note: Offered Spring Semesters.

- Examines correct use and interpretation of accounting data. This involves the examination of financial statements, financial analysis, simulations, budgeting, examination of variances from budgets and forecasting the results of decisions.

ADT - AUTOMOTIVE & DIESEL TECHNOLOGY

Offered through the Community & Technical College
Auto & Diesel Technology Building (ADT), Room 207, 786-1485
www.uaa.alaska.edu/ctc/transportation/auto

ADT A071 Fundamentals of Diesel Engines 2 CR
Contact Hours: 2 + 0
Offered only at Kodiak College.
- Survey of different types, uses, operating conditions, and maintenance of diesel engines.
ADT A102  Introduction to Automotive Technology  3 CR
Contact Hours:  2 + 2
Special Fees.
Provides career information in the automotive and diesel industry. Covers shop safety, hand tools, fasteners, fittings, and the major automotive systems.

ADT A121  Basic Electrical Systems  3 CR
Contact Hours:  2 + 3
Special Fees.
Special Note: Students are expected to provide the basic hand tools needed to participate in lab activities. See faculty advisor for tool list.
Covers history and origins of electrical theory through the generation of electricity, diagnosis, minor repair, and general service of alternators, starters, and batteries.

ADT A122  Engine Theory and Diagnosis  3 CR
Contact Hours:  2 + 2
Prerequisites: ADT A102.
Special Fees.
Introduces students to fundamental aspects of engine design, general diagnosis, and engine-related service. Includes combustion process, engine noise, basics of exhaust emissions, vacuum/pressure, compression, intake and exhaust systems, and valve and ignition timing.

ADT A131  Auto Electrical II  3 CR
Contact Hours:  2 + 2
Prerequisites: ADT A121.
Special Fees.
Theory, diagnosis and repair of automotive electrical systems, to include testing tools, schematics, and computers.

ADT A140  Automotive Engine Repair  3 CR
Contact Hours:  2 + 2
Prerequisites: ADT A102.
Special Fees.
Introduces skills essential to diagnose, repair, overhaul, and recondition automotive internal combustion engines. Includes cylinder head, valve train, and engine block service.

ADT A150  Brake Systems  4 CR
Contact Hours:  2 + 4
Prerequisites: ADT A121.
Special Fees.
Theory, diagnosis, and repair of automotive brake systems.

ADT A151  Medium/Heavy Duty Engine Repair  3 CR
Contact Hours:  3 + 0
Corequisite: ADT A153.
Introduces theory of design, operation, diagnosis, disassembly, repair, and service procedures of engines used on medium and heavy equipment.

ADT A152  Heavy Duty Suspension and Steering  4 CR
Contact Hours:  2 + 4
Special Fees.
Special Note: Students are expected to provide the basic hand tools needed to participate in lab activities. See faculty advisor for tool list.
Introduces the design, operation, diagnosis, disassembly, repair, and service procedures to the suspension and steering systems on medium and heavy duty equipment.

ADT A153  Medium/Heavy Engine Lab  3 CR
Contact Hours:  0 + 9
Corequisite: ADT A151.
Special Fees.
Special Note: Students are expected to provide the basic hand tools needed to participate in lab activities. See faculty advisor for tool list.
Applies principles of design, operation, diagnosis, disassembly, hands-on repair and service procedures on medium/heavy duty engines.

ADT A155  Heavy Duty Brake Systems  4 CR
Contact Hours:  2 + 4
Special Fees.
Special Note: Students are expected to provide the basic hand tools needed to participate in lab activities. See faculty advisor for tool list.
Introduces theory, operation, diagnosis, repair, and service procedure of brake systems on medium and heavy duty equipment.

ADT A156  Heavy Duty Maintenance Inspection  6 CR
Contact Hours:  2 + 8
Prerequisites: ASSET Numerical Skills with score of 43 and ASSET Reading Skills with score of 43 and ASSET Writing Skills with score of 47.
Registration Restrictions: Student must be eligible to enroll in English A111 and Math A055.
Special Fees.
Special Note: Students are expected to provide the basic hand tools needed to participate in lab activities. See faculty advisor for tool list.
Introduces regulations and maintenance procedures on medium and heavy duty equipment. Includes hands on maintenance, applications of maintenance scheduling, safety procedures and Department of Transportation compliance, verification, and documentation.

ADT A160  Manual Drive Trains and Axles  4 CR
Contact Hours:  2 + 4
Prerequisites: ADT A102.
Special Fees.
Introduces theory, diagnosis, and repair of manual drive train components and drive axles. Content includes clutches, manual transmissions and transaxles, 4-wheel drive components, and drive axles.

ADT A162  Suspension and Alignment  4 CR
Contact Hours:  2 + 4
Prerequisites: ADT A121.
Special Fees.
Modern automotive suspension, alignment, and steering theory, inspection, service, and adjustments including four wheel alignment.

ADT A195  Automotive Practicum I  1-6 CR
Contact Hours:  0 + 5-30
Registration Restrictions: At least 12 credits of advisor approved ADT program technical courses and a valid Alaska driver's license.
Special Note: Although students may enroll in a maximum of 18 credits of Practicum I, only 6 credits apply to the Certificate in Automotive Technology, Non-Transcribed Departmental Certificate of Completion in Automotive Electrical; Automotive Brakes; Suspension and Alignment; and Automotive Power Trains; and the AAS degree in Automotive Technology.
Provides supervised workplace experience in selected industry settings. Integrates knowledge and practice to achieve basic-level skill competencies.

ADT A202  Auto Fuel and Emissions Systems  4 CR
Contact Hours:  3 + 2
Special Fees.
Presents combustion chemistry, volumetric efficiency, design and function of emission control devices, laws and regulations concerning vehicle emissions. Emphasis on interfacing with on-board computers, automotive computer networking, and 4- and 5-gas analysis.

ADT A222  Automotive Engine Performance  3 CR
Contact Hours:  2 + 2
Prerequisites: ADT A122.
Special Fees.
Presents strategies for diagnosing fuel and ignition systems, manifold design, superchargers, automotive computers and multiplexing, communication strategies, on-board diagnostics, testing and diagnosis of engine performance related components.

ADT A225  Auto Heating and A/C  3 CR
Contact Hours:  2 + 2
Prerequisites: ADT A131.
Special Fees.
Theory, diagnosis and repair of automotive heating and air conditioning systems.

ADT A227  Auto Electrical III  3 CR
Contact Hours:  2 + 2
Prerequisites: ADT A131.
Special Fees.
Special Note: Specialty tools required.
Theory, diagnosis and repair of automotive electrical and electronic systems, to include accessories.

ADT A260  Electronic and Automatic Transmissions  3 CR
Contact Hours:  2 + 2
Prerequisites: ADT A131.
Special Fees.
Applies theory, diagnosis, and repair of modern automatic transmissions, including application devices, friction materials, seals, gaskets, electronic controls, adaptive strategies, and valve bodies.
ADT A266 Heavy Duty Systems Lab 4 CR
Contact Hours: 0 + 12
Prerequisites: ADT A156.
Special Fees.
Special Note: Students are expected to provide the basic hand tools needed to participate in lab activities. See faculty advisor for tool list.

Covers design, operation, repair, service procedures and testing of hydraulics, pneumatics, drive train, buckets, blades, undercarriages, and diesel engines used in medium and heavy duty applications.

AEST A603 Solid Waste Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Registrants must be enrolled in the AEST, CE, or BIOL graduate programs, or gain instructor approval.

Planning, collecting and disposing of solid waste; techniques of collection, transportation, disposal and resource recovery; solid waste environmental regulations and relationships to water, air, and land pollution; hazardous waste management.

ADT A267 Heavy Duty Fuel Systems 4 CR
Contact Hours: 2 + 4
Prerequisites: ADT A156.
Special Fees.

Covers design, operation, diagnosis, repair, and service procedures of fuel systems on engines used in the medium and heavy duty diesel industry.

AEST A604 Environmental Law, Regulations and Permitting 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Bachelor of Science degree in a science or engineering discipline.

Introductory graduate level course on understanding and navigating environmental laws and regulations. Students will learn the principles of the major environmental laws in the U.S., practice interpreting regulations, and prepare permits.

AEST A605 National Environmental Policy Act 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Bachelor of Science degree in a science or engineering discipline.

Examines the National Environmental Policy Act (NEPA) requirements, including process, roles and responsibilities of involved parties, impact analysis, alternative development, stakeholder involvement and environmental conflict resolution. Subject matter experts from State and Federal agencies, industry, environmental nongovernmental organizations and utilities will provide their perspectives on NEPA.

AEST A606 Clean Water Act 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Bachelor of Science degree in a science or engineering discipline.

Examines the Clean Water Act and its impact on the environment. The course will explore the history of the Act, and various programs established by the Act, including the Section 404 wetlands program and the National Pollutant Discharge Elimination System (NPDES) pollution control program. Subject matter experts from State and Federal agencies, industry, environmental nongovernmental organizations and utilities will provide their perspectives on the Clean Water Act and its effectiveness.

AEST A607 Environmental Permitting Project 3 CR
Contact Hours: 3 + 0
Prerequisites: AEST A604 with minimum grade of B and AEST A605 with minimum grade of B and AEST A606 with minimum grade of B.
Registration Restrictions: Admission to Applied Environmental Science and Technology graduate program.

Explores the complex relationship between environmental regulatory and permitting requirements and their application to engineering and science projects.

AEST A608 Fundamentals of Air Pollution 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Registrants must be enrolled in the AEST, CE, or BIOL graduate programs, or gain instructor approval.


AEST A613 Remediation 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Registrants must be enrolled in the AEST, CE, or BIOL graduate programs, or gain instructor approval.

Fundamentals and applications of technologies for the remediation of contaminated sites. Site characterization techniques and fundamental microbial, chemical, and physical concepts are presented to provide a basis for the design and operation of specific on-site and in-situ technologies.

AEST A698 Individual Research 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Registrants must be enrolled in the AEST, CE, or BIOL graduate programs, or gain instructor approval.

A course to be designed between the student and faculty member to allow the student the chance to pursue special advanced interests in engineering at the graduate level.

AEST A699 AEST Thesis 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Registrants must be enrolled in the AEST graduate program.

Arranged between the advisor and the student. Generally the student has been admitted to candidacy for the master's degree and a thesis committee is formed. The student must take an oral exam defending the thesis.

AEST - APPLIED ENVIRONMENTAL SCIENCE & TECHNOLOGY

Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900
www.engr.uaa.alaska.edu/programs/environmental

AEST A601 Aquatic Process Chemistry 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Registrants must be enrolled in the AEST, CE, or BIOL graduate programs, or gain instructor approval.

An introduction to fundamental aquatic chemistry concepts frequently encountered in environmental science and engineering. An equilibrium approach with an emphasis on treatment processes and natural water chemistry is employed. Both a qualitative and quantitative understanding of equilibrium calculations and the ability to apply both graphical and algebraic/numerical solution techniques to chemistry problems.

AEST A602 Water Quality Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Registrants must be enrolled in the AEST, CE, or BIOL graduate programs, or gain instructor approval.

An assessment of the rationale, concepts, institutions, and engineering aspects of water quality management. Regulatory processes, monitoring strategies and statistics, flow and mixing characteristics, pollutant chemistry, assessment strategies, point and nonpoint source characteristics, the Total Maximum Daily Load (TMDL) process, and mitigation measures are covered.
AET - ARCHITECTURAL & ENGINEERING TECHNOLOGY

Offered through the Community & Technical College
University Center (UC) Room 130, 786-6465
www.uaa.alaska.edu/ctc/construction/aet

AET A100 Fundamentals of Drafting 3 CR
Contact Hours: 1 + 2
Offered only at Matanuska-Susitna College.
Special Fees.
Special Note: For non-majors only.

Introduces basic drafting techniques necessary in civil, architectural, structural, mechanical, and electrical drafting within the construction industry. Defines the working relationship between design and construction professionals and drafters/technicians.

AET A123 Codes and Standards 3 CR
Contact Hours: 3 + 0
Prerequisites: AET A101 and AET A102.
Crosslisted with: CM A123.
Special Fees.

Provides an introduction and overview of the fundamental provisions of the building codes used for plan review, life-safety evaluation of the buildings, and community development.

AET A126 Design Project 4 CR
Contact Hours: 2 + 4
Prerequisites: AET A181 and [AET A111 or AET A121 or AET A131 or AET A143].
Special Fees.

Provides a culminating problem-solving situation for students from the various certificate programs. The problem will be taken from community-generated enterprise and solved in a project-based learning environment.

AET A142 Mechanical and Electrical Technology 4 CR
Contact Hours: 3 + 2
Prerequisites: AET A101 and AET A102.
Crosslisted with: CM A142.
Special Fees.

Introduces the basic mechanical and electrical systems required in all buildings for the safety, health, comfort, and convenience of occupants. Emphasizes design criteria, code requirements, and interpretation of construction drawings.

AET A143 Mechanical and Electrical Drafting 3 CR
Contact Hours: 2 + 3
Prerequisites: AET A102 and AET A181.
Special Fees.

Introduces technical analysis, theory, code requirements, CADD techniques, and construction drawing methodology to produce construction drawings for mechanical and electrical building systems. Includes drafting conventions, drawing symbols, terminology, and research methods for residential and commercial building mechanical and electrical systems and equipment.

AET A171 Building Your Own Home 3 CR
Contact Hours: 1 + 1
Registration Restrictions: Basic high school English and math skills recommended.
Special Fees.
Special Note: Does not meet AET certificate or degree requirements.

Introduces practical techniques and methods for planning, designing, constructing, and remodeling owner-built single-family houses.

AET A181 Intermediate CADD for Building Construction 4 CR
Contact Hours: 2 + 4
Prerequisites: AET A101 or CM A101.
Crosslisted with: CM A213.
Special Fees.

Develops intermediate level CADD (computer-aided design and drafting) skills for architectural, civil, structural, mechanical and electrical drawings used in building construction. Includes 3-D space coordinate systems, surface modeling, and solid modeling.

AET A213 Civil Technology 4 CR
Contact Hours: 2 + 4
Prerequisites: AET A101 and AET A102.
Crosslisted with: CM A213.
Special Fees.

Introduces technical skills needed by drafters and technicians to work with civil engineers and surveyors. Includes office practices, staff relationships, and civil drawing production. Develops computer-aided drafting skills for mapping used in site development.

AET A231 Structural Technology 4 CR
Contact Hours: 2 + 4
Prerequisites: AET A101 and AET A102.
Crosslisted with: CM A231.
Special Fees.

Examines structural theory and the physical principles that underlie structural behavior. Includes the use of materials in a manner to maintain structural stability against the natural forces of gravity, wind, snow, and earthquakes. Covers connection detailing and code requirements for wood, steel, and reinforced concrete.

AET A285 CADD Software Customization 3 CR
Contact Hours: 2 + 0
Prerequisites: AET A181.
Special Fees.

Presents the skills and knowledge necessary to modify and customize the CADD user interface, create customized CADD features for diverse domains, and manage CADD standards and projects in professional environments.

AET A286 Advanced CADD Techniques 4 CR
Contact Hours: 2 + 4
Prerequisites: AET A181.
Special Fees.

Continues skill development in CADD (computer-aided design and drafting) at an advanced level for the production of architectural, civil, structural, mechanical, and electrical drawings used in construction. Includes 3-D space, shading, rendering, and animation techniques.

AET A287 CADD Animation 3 CR
Contact Hours: 2 + 0
Prerequisites: AET A181.
Special Fees.

Examines the role of computer-aided animation in modern design. Includes animation techniques, user interface, and interactivity as well as advanced animation tools and methods. Includes animation of objects, lighting, and materials.

AET A288 CADD Animation for Building Construction 3 CR
Contact Hours: 2 + 0
Prerequisites: AET A181.
Special Fees.

Examines computer-aided animation in modern design, detailing, and communication. Includes animation techniques, user interface, and interactivity as well as advanced animation tools and methods.

AET A289 CADD Animation for Building Construction 3 CR
Contact Hours: 2 + 0
Prerequisites: AET A181.
Special Fees.

Examines computer-aided animation in modern design, detailing, and communication. Includes animation techniques, user interface, and interactivity as well as advanced animation tools and methods.

AET A292 CADD Animation for Building Construction 3 CR
Contact Hours: 2 + 0
Prerequisites: AET A181.
Special Fees.

Examines computer-aided animation in modern design, detailing, and communication. Includes animation techniques, user interface, and interactivity as well as advanced animation tools and methods.

AET A293 CADD Animation for Building Construction 3 CR
Contact Hours: 2 + 0
Prerequisites: AET A181.
Special Fees.

Examines computer-aided animation in modern design, detailing, and communication. Includes animation techniques, user interface, and interactivity as well as advanced animation tools and methods.

AET A294 CADD Animation for Building Construction 3 CR
Contact Hours: 2 + 0
Prerequisites: AET A181.
Special Fees.

Examines computer-aided animation in modern design, detailing, and communication. Includes animation techniques, user interface, and interactivity as well as advanced animation tools and methods.

AET A295 CADD Animation for Building Construction 3 CR
Contact Hours: 2 + 0
Prerequisites: AET A181.
Special Fees.

Examines computer-aided animation in modern design, detailing, and communication. Includes animation techniques, user interface, and interactivity as well as advanced animation tools and methods.

AET A296 CADD Animation for Building Construction 3 CR
Contact Hours: 2 + 0
Prerequisites: AET A181.
Special Fees.

Examines computer-aided animation in modern design, detailing, and communication. Includes animation techniques, user interface, and interactivity as well as advanced animation tools and methods.

AET A297 CADD Animation for Building Construction 3 CR
Contact Hours: 2 + 0
Prerequisites: AET A181.
Special Fees.

Examines computer-aided animation in modern design, detailing, and communication. Includes animation techniques, user interface, and interactivity as well as advanced animation tools and methods.

AET A298 CADD Animation for Building Construction 3 CR
Contact Hours: 2 + 0
Prerequisites: AET A181.
Special Fees.

Examines computer-aided animation in modern design, detailing, and communication. Includes animation techniques, user interface, and interactivity as well as advanced animation tools and methods.

AET A299 CADD Animation for Building Construction 3 CR
Contact Hours: 2 + 0
Prerequisites: AET A181.
Special Fees.

Examines computer-aided animation in modern design, detailing, and communication. Includes animation techniques, user interface, and interactivity as well as advanced animation tools and methods.

AET A300 CADD Animation for Building Construction 3 CR
Contact Hours: 2 + 0
Prerequisites: AET A181.
Special Fees.

Examines computer-aided animation in modern design, detailing, and communication. Includes animation techniques, user interface, and interactivity as well as advanced animation tools and methods.
AET A290 Architectural and Engineering Technology Selected Topics 1-6 CR

Contact Hours: 0-6 + 0-12
Registration Restrictions: Department Permission required.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for credit under different topic.
Provides theoretical and/or experiential learning in selected areas of Architectural and Engineering Technology. Provides technical information on current industry trends.

AET A295 Architectural and Engineering Technology Internship 1-3 CR

Contact Hours: 0-5 + 15
Registration Restrictions: Sophomore standing and faculty permission.
Grade Mode: Pass/No Pass.
Special Fees. Places students in generalized and specialized architectural, engineering or building construction offices related to student educational program and occupational objectives. Direct supervision by architect, engineer, or contractor professional, program faculty, and Cooperative Education Director.

AET A490 Architectural and Engineering Technology Selected Topics 1-6 CR

Contact Hours: 0-6 + 0-12
Registration Restrictions: Department approval required.
Grade Mode: Pass/No Pass.
Special Fees. Special Note: May be repeated for credit under different topic. Provides advanced theoretical and/or experiential learning in selected areas of Architectural and Engineering Technology. Provides technical information on current industry trends.

AGRI - AGRICULTURE

Offered through Community & Technical College
Chugiak-Eagle River Campus, (907) 694-3313
www.uaa.alaska.edu/ctc/eagleriver

AGRI A115 Basic Horse Behavior and Training I 3 CR

Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Introduces principles necessary for understanding horse behavior and physical development of the riding horse. Presents principles and procedures of communication, and horse training from halter training to mounted work. Includes actual handling and training of horses.

AGRI A136 Introduction to Horticulture 3 CR

Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Reviews plant structure and growth; soils; plant nutrition; plant propagation; potting media; fertilizers; indoor plant care; light management; container gardening; interior landscaping; greenhouse growing and plant forcing.

AGRI A138 Organic Gardening 1-3 CR

Contact Hours: 1-3 + 0
Grade Mode: Pass/No Pass.
Introduces organic methods and materials for ecological agriculture covering soil management, crop rotations, weed control, pest management, garden planning, planting, harvesting, storage, French intensive methods, and compost.

AGRI A139 Modern Home Gardening 3 CR

Contact Hours: 3 + 0
Principles of gardening—comprehensive coverage of plants, soils and climates, the basic elements with which the gardener must deal. Practices of gardening—the manipulation of the basic elements; growing of important vegetables, herbs, perennial food plants and flowers.

AGRI A227 Landscape Design: A Home Owner’s Approach 1 CR

Contact Hours: 1 + 0
Registration Restrictions: AGRI A136 or AGRI A139 recommended.
Grade Mode: Pass/No Pass.
Designed for the beginning home landscaper. Covers the first phases of landscape design including site inventory, site analysis, conceptual design, and preliminary design. Construction phasing, final design components, and additional resources will be discussed briefly.

AGRI A240 Greenhouse Operation and Management 3 CR

Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Covers principles of management and operation of both home and commercial greenhouses. Includes greenhouse construction, heating, cooling, root media, root media pasteurization, watering, fertilization, carbon dioxide fertilization, light and temperature management, chemical growth regulation, insect and disease control, and the management of several selected crops.

AGRI A245 Master Gardener 3 CR

Contact Hours: 3 + 0
Registration Restrictions: Experienced gardeners in Alaska, plus a commitment to volunteer 40 hours to CES in gardening subject areas. Offered only at Kenai Peninsula College.
Course will teach volunteers (master gardeners) to extend the gardening information and resources of cooperative extension service to area gardeners.

AIRS - AEROSPACE SCIENCE

Offered through the Community and Technical College,
Aviation Complex, 2811 Merrill Field Dr., Room 116, 786-7266
www.uaa.alaska.edu/ctc/aerospace

AIRS A101 Foundations of the US Air Force I 1 CR

Contact Hours: 1 + 0
Introduces basic military concepts. Covers key events in US Air Force history, military customs and courtesies, ethics, and communication skills.

AIRS A102 Foundations of US Air Force II 1 CR

Contact Hours: 1 + 0
Describes the organizational structure of Air Force major commands and operational wings. Covers facilities and services available at Air Force installations. Introduces Air Force writing formats.

AIRS A150 US Air Force Leadership Laboratory 1 CR

Contact Hours: 0 + 4
Special Note: This is a required course for Air Force ROTC students seeking an officer's commission. Students must be eligible for military service to take this course.
Provides practical leadership experience and military training to Air Force ROTC cadets. Includes field trips to different Air Force Bases, has required weekly physical fitness training, marching, and leadership exercises.

AIRS A201 Evolution of Air and Space Power I 2 CR

Contact Hours: 2 + 0
Prerequisites: AIRS A101 and AIRS A102.
Examines the evolution of air and space combat technology, doctrine, historical context and practice from the first use of dirigibles to the development of Intercontinental Ballistic Missiles and long-range bombers in the early 1960s.

AIRS A202 Evolution of Air and Space Power II 2 CR

Contact Hours: 2 + 0
Prerequisites: AIRS A201.
Builds upon previous (AIRS A201) course work and examines the evolution of air and space combat technology, doctrine, and practice from the early 1960s to the present.

AIRS A301 US Air Force Leadership and Management I 3 CR

Contact Hours: 3 + 0
Prerequisites: AIRS A201.
Special Note: This is a mandatory course for students seeking an Air Force officer’s commission.
Examines the organizational structure of the Air Force major commands and operational wings. Covers facilities and services available at Air Force installations.

AIRS A302 US Air Force Leadership and Management II 3 CR

Contact Hours: 3 + 0
Prerequisites: AIRS A301.
Special Note: This is a mandatory course for students seeking an Air Force officer’s commission.
Examines the organizational structure of the Air Force major commands and operational wings. Covers facilities and services available at Air Force installations.
AIRS A401 National Security Affairs I 3 CR
Contact Hours: 3 + 0
Prerequisites: AIRS A302.
Special Note: This is a mandatory course for students seeking an Air Force officer’s commission.
Analyzes the relationship of the military to society and the role of the Executive and Congressional branches in military affairs. Examines the capabilities of the US Air Force, Navy, and Army. Outlines US national security goals, commitments, and issues in Europe and East Asia.

AIRS A402 National Security Affairs II/Prep for Active Duty 3 CR
Contact Hours: 3 + 0
Prerequisites: AIRS A401.
Special Note: This is a mandatory course for students seeking an Air Force officer’s commission.
Outlines US national security goals, commitments, and issues in the former Soviet Union, Middle East, and Latin America. Analyzes non-traditional military operations and covers various personnel, legal, and leadership topics.

AKNS - ALASKA NATIVE STUDIES
Offered through the College of Arts and Sciences
Social Sciences Building (SSB), Room 378, 786-6135
http://native.uaa.alaska.edu

AKNS A101A Elementary Central Yup’ik Language I 4 CR
Contact Hours: 4 + 0
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Introductory course for students with little, or no, prior knowledge of the Central Yup’ik language. Develops listening, speaking, reading, and writing skills in Central Yup’ik for effective communication at the elementary level. Addresses history of Alaska Native languages and culture.

AKNS A101B Elementary Tlingit Language I 4 CR
Contact Hours: 4 + 0
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Introductory course for students with little, or no, prior knowledge of the Tlingit language. Develops listening, speaking, reading, and writing skills in Tlingit for effective communication at the elementary level. Addresses history of Alaska Native languages and cultures.

AKNS A101C Elementary Alaska Native Language I 4 CR
Contact Hours: 4 + 0
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Special Note: AKNS A201 or MUS A111 recommended.
Introductory course for students with little, or no, prior knowledge of the Alaska Native language. Develops listening, speaking, reading, and writing skills in the Alaska Native language for effective communication at the elementary level. Addresses history of Alaska Native languages and cultures.

AKNS A102A Elementary Central Yup’ik Language II 4 CR
Contact Hours: 4 + 0
Prerequisites: AKNS A101A.
May be stacked with: AKNS A109A.
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Continuation of introductory course. Further develops elementary listening, speaking, reading, and writing skills in Central Yup’ik for effective communication. Enhances appreciation of Alaska Native and cross-cultural perspectives.

AKNS A102B Elementary Tlingit Language II 4 CR
Contact Hours: 4 + 0
Prerequisites: AKNS A101B.
May be stacked with: AKNS A109B.
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Continuation of introductory course. Further develops elementary listening, speaking, reading, and writing skills in Tlingit for effective communication. Enhances appreciation of Alaska Native and cross-cultural perspectives.

AKNS A102C Elementary Alaska Native Language II 4 CR
Contact Hours: 4 + 0
Prerequisites: AKNS A101C.
Registration Restrictions: Same language as taken in AKNS A101C
May be stacked with: AKNS A109C.
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Continuation of introductory course. Further develops elementary listening, speaking, reading, and writing skills in a selected Alaska Native language for effective communication. Enhances appreciation of Alaska Native and cross-cultural perspectives.

AKNS A109A Central Yup’ik Orthography 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Fluency in Central Yup’ik and instructor approval required.
May be stacked with: AKNS A102A.
Special Fees.
Introduction to reading and writing Central Yup’ik for students with oral proficiency in the Central Yup’ik language. Students will be introduced to alphabet and phonetic classification, dialects, and a history of the Central Yup’ik writing system. Enhances cross-cultural perspectives.

AKNS A109B Tlingit Orthography 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Fluency in Tlingit and instructor approval required.
May be stacked with: AKNS A102B.
Special Fees.
Introduction to reading and writing Tlingit for students with oral proficiency in the Tlingit language. Students will be introduced to alphabet and phonetic classification, dialects, and a history of the Tlingit writing system. Enhances cross-cultural perspectives.

AKNS A109C Alaska Native Language Orthography 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Fluency in Alaska Native language and instructor approval required.
May be stacked with: AKNS A102C.
Special Fees.
Introduction to reading and writing an Alaska Native language for students with oral proficiency in the Alaska Native language. Students will be introduced to alphabet and phonetic classification, dialects, and a history of the selected Alaska Native language writing system. Enhances cross-cultural perspectives.

AKNS A146 Introduction to Alaska Native Dance 1-2 CR
Contact Hours: 5+1 or 1+2
Crosslisted with: DNCE A146.
Special Fees.
Special Note: May be repeated for up to 8 credits.
Introduction to Alaska Native perspectives on kinship, time, philosophy, symbolism, spirituality, communication, justice, oral traditions, storytelling, material culture, and the relationship to the environment. Students will become familiar with the diversity of Alaska Native peoples, languages, and worldviews and how these influence contemporary and global issues.

AKNS A201 Alaska Native Perspectives 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Introduction to Alaska Native perspectives on kinship, time, philosophy, symbolism, spirituality, communication, justice, oral traditions, storytelling, material culture, and the relationship to the environment. Students will become familiar with the diversity of Alaska Native peoples, languages, and worldviews and how these influence contemporary and global issues.

AKNS A215 Music of Alaska Natives and Indigenous Peoples of Northern Regions 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Crosslisted with: MUS A215.
Course Attributes: UAA GER Fine Arts Requirement.
Special Fees.
Special Note: AKNS A201 or MUS A111 recommended.
Explores the music of Alaska Natives and Indigenous Peoples of Northern regions by group, including influences from Euro-American music.

AKNS A290 Selected Topics in Alaska Native Studies 1-3 CR
Contact Hours: 1-3 + 0
Special Fees.
Special Note: Subtitle varies. May be repeated for credit with a different subtitle.
A topic of contemporary or continuing interest in Alaska Native Studies, treated at an introductory level. Prominent leaders in the Native community are brought into direct classroom contact with students to discuss important issues in rural Alaska and the larger Native community.
AMT - AVIATION MAINTENANCE TECHNOLOGY

Offered through the Community & Technical College
Aviation Complex, 2811 Merrill Field Drive, 786-7200
www.uaa.alaska.edu/ctc/aviation

AMT A170 Aircraft Ground Operations and Safety 1 CR
Contact Hours: 1 + 2
Registration Restrictions: Formal acceptance into the AMT certificate or degree program.
Special Fees.
Examines safety in aviation maintenance including aircraft ground operation and fuel servicing. Presents policies and procedures of the Aviation Maintenance Technology Program, UAA and the FAA.

AMT A171 Basic Aerodynamics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Formal acceptance into the AMT certificate or degree program.
Introduces the theory of aerodynamics and factors affecting flight of heavier than air fixed and rotary wing aircraft. Emphasizes aircraft weight and balance, aircraft structures, aerodynamics, theory of flight and aircraft rigging.

AMT A172 Aircraft Publications, Regulations, and Records 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Formal acceptance into the AMT certificate or degree program.
Examines the government's involvement in aviation maintenance, and FAA regulations regarding aviation maintenance and approved training programs. Emphasizes the use of maintenance publications, maintenance forms and records, and technicians' privileges and limitations.

AMT A174 Fundamentals of Aircraft Electronics 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A055. Corequisite: AMT A174L.
Examines the theory, derivation, and application of basic DC and AC electrical concepts, definitions, and laws. Introduces passive electrical components, electrical sources, AC waveforms, schematic symbols, and electrical wiring diagrams. Explains troubleshooting fundamentals and circuit analysis of both passive and reactive components.

AMT A175 Drawing and Precision Measurement 2 CR
Contact Hours: 0 + 5
Registration Restrictions: Formal acceptance into the AMT certificate or degree program.
Examines the construction and operation of turbine engines. Introduces thrust development and design and environmental factors that influence thrust, along with construction details from inlet to exhaust for representative aircraft turbine engines.

AMT A177 Reciprocating Engine Theory 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Formal acceptance into the AMT certificate or degree program.
Introduces the theory of operation and construction of the internal combustion engine. Examines the combustion processes, design rationale, cooling and lubrication of internal combustion of reciprocating engines.

AMT A178 Turbine Engine Theory 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Formal acceptance into the AMT certificate or degree program.
Examines the construction and operation of turbine engines. Introduces thrust development and design and environmental factors that influence thrust, along with construction details from inlet to exhaust for representative aircraft turbine engines.
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Corequisites</th>
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<th>Notes</th>
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<tbody>
<tr>
<td>AMT A174</td>
<td>Aircraft Fuel Systems</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>Prerequisites: AMT A176</td>
<td>Corequisite: AMT A176</td>
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<td>AMT A174L</td>
<td>Aircraft Fuel Systems Lab</td>
<td>1 CR</td>
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<td>Prerequisites: AMT A170 and AMT A176</td>
<td>Corequisite: AMT A181L</td>
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<td>AMT A185</td>
<td>Aircraft Sheetmetal Structures</td>
<td>3 CR</td>
<td>0 + 5</td>
<td>Prerequisites: AMT A170 and AMT A176</td>
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<tr>
<td>AMT A185L</td>
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<td>2 CR</td>
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<td>Prerequisites: AMT A170 and AMT A176</td>
<td>Corequisite: AMT A185L</td>
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<tr>
<td>AMT A186</td>
<td>Aircraft Non-Destructive Inspection Methods</td>
<td>3 CR</td>
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<td>AMT A187</td>
<td>Aircraft Reciprocating Engine Overhaul</td>
<td>3 CR</td>
<td>0 + 5</td>
<td>Prerequisites: AMT A175 and AMT A177</td>
<td>Corequisite: AMT A187L</td>
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<tr>
<td>AMT A187L</td>
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<td>2 CR</td>
<td>0 + 5</td>
<td>Prerequisites: AMT A170 and AMT A175</td>
<td>Corequisite: AMT A187L</td>
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<tr>
<td>AMT A181</td>
<td>Aircraft Electrical Hardware and Systems</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>Prerequisites: AMT A174 and AMT A174L</td>
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<td>AMT A175</td>
<td>Aircraft Fluid Power Systems</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Prerequisites: AMT A176</td>
<td>Corequisite: AMT A273L</td>
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<td>Aircraft Fluid Power Systems Lab</td>
<td>1 CR</td>
<td>0 + 5</td>
<td>Prerequisites: AMT A176</td>
<td>Corequisite: AMT A176</td>
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<tr>
<td>AMT A176</td>
<td>Aircraft Electronic Systems</td>
<td>5 CR</td>
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<td>Prerequisites: AMT A170</td>
<td>Corequisite: AMT A274L</td>
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<td>1 CR</td>
<td>3 + 0</td>
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<tr>
<td>AMT A272</td>
<td>Aircraft Turbine Engine Repair and Overhaul</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: AMT A175 and AMT A178</td>
<td>Corequisite: AMT A279L</td>
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<tr>
<td>AMT A272L</td>
<td>Aircraft Turbine Engine Repair and Overhaul Lab</td>
<td>1 CR</td>
<td>0 + 3</td>
<td>Prerequisites: AMT A175 and AMT A178</td>
<td>Corequisite: AMT A279</td>
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<tr>
<td>AMT A274</td>
<td>Aircraft Propeller Systems</td>
<td>1 CR</td>
<td>2 + 2</td>
<td>Prerequisites: AMT A175 and AMT A175</td>
<td>Corequisite: AMT A303L</td>
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<tr>
<td>AMT A274L</td>
<td>Aircraft Propeller Systems Lab</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>Prerequisites: AMT A175 and AMT A175</td>
<td>Corequisite: AMT A175L</td>
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<tr>
<td>AMT A283</td>
<td>Aircraft Auxiliary Systems</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: AMT A274 and AMT A274L</td>
<td>Corequisite: AMT A274L</td>
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</tbody>
</table>
practices commonly used to diagnose and correct aircraft engine problems.

- **Corequisite:** AMT A289.

**Prerequisites:** AMT A181 and AMT A279.

**Contact Hours:** 3 + 0

**AMT A364** Aircraft Avionics Systems 3 CR

- Provides practice in the installation, operation, and inspection of aircraft turbine engines. Details the application of performance testing and troubleshooting practices commonly used to diagnose and correct aircraft engine problems.

**Contact Hours:** 3 + 0

**Prerequisites:** AMT A274.

**Corequisite:** AMT A369.

**AMT A289L** Turbine Engine Installation and Operation Lab 2 CR

- Provides practice in the installation, operation, and inspection of aircraft turbine engines. Details the application of performance testing and troubleshooting practices commonly used to diagnose and correct aircraft engine problems.

**Contact Hours:** 0 + 5

**Prerequisites:** AMT A181L and AMT A279L.

**Corequisite:** AMT A289.

**Special Fees:**

- Provides practice in the installation, operation, and inspection of aircraft turbine engines. Details the application of performance testing and troubleshooting practices commonly used to diagnose and correct aircraft engine problems.

**Contact Hours:** 3 + 0

**Prerequisites:** AMT A289.

**Corequisite:** AMT A284.

**Contact Hours:** 0 + 5

**Prerequisites:** AMT A272.

**Corequisite:** AMT A284L.

**AMT A284** Aircraft Electrical Machinery 2 CR

- Examines the construction, operation, inspection, servicing, and repair of aircraft electrical components such as electric motors, generators, alternators, voltage controls, magnetos, and ignition system components.

**Contact Hours:** 2 + 0

**Prerequisites:** AMT A272.

**Corequisite:** AMT A284L.

**AMT A284L** Aircraft Electrical Machinery Lab 2 CR

- Application of practices in inspecting, servicing, operation, testing, and repair of electrical components such as electrical motors, DC generators, DC alternators, AC alternators, voltage regulators, reverse current relays, generator and alternator protection devices, magnetos, and ignition system components.

**Contact Hours:** 0 + 5

**Prerequisites:** AMT A272.

**Corequisite:** AMT A284.

**Special Fees:**

- Provides practice in the fabrication, inspection, and repair of bonded structures including plastics, fabric covering, honeycomb structures, advanced composite structures, and painting.

**AMT A285** Aircraft Materials and Processes II 2 CR

- Examines the theory of and techniques used in the fabrication, inspection, repair, and finishing of bonded structures, plastics, wood structures, fabric covering, honeycomb structures, and advanced composite structures.

**Contact Hours:** 4 + 0

**Prerequisites:** AMT A176.

**Corequisite:** AMT A285L.

**AMT A285L** Aircraft Bonded Structures Lab 1 CR

- Provides practice in the fabrication, inspection, and repair of bonded structures and certain aluminum, magnesium, and titanium components.

**Contact Hours:** 0 + 3

**Prerequisites:** AMT A176.

**Corequisite:** AMT A285.

**Special Fees:**

- Provides practice in the performance of scheduled and non-scheduled aircraft inspections. Includes in-depth study of the installation, operation, and inspection of aircraft reciprocating engines. Examines the application of performance testing and troubleshooting practices commonly used to diagnose and correct aircraft engine problems.

**AMT A286** Aircraft Assembly and Inspections 3 CR

- Examines the procedures and rules for performance of scheduled and non-scheduled aircraft inspections and evaluation of the condition of aircraft and their systems to determine air worthiness. Details aircraft disassembly, balancing, reassembly, weight and balance, and the procedures for rigging structural assemblies and flight control systems. Students will conduct research on regulations and conformity data; plan and perform inspections, then analyze and record findings.

**Contact Hours:** 3 + 0

**Prerequisites:** AMT A185L and AMT A272.

**Corequisite:** AMT A289L.

**AMT A286L** Aircraft Assembly and Inspections Lab 2 CR

- Examines the construction, operation, inspection, servicing, and repair of aircraft engine reciprocating engines. Examines the application of performance testing and troubleshooting practices commonly used to diagnose and correct aircraft engine problems.

**Contact Hours:** 0 + 5

**Prerequisites:** AMT A185L and AMT A272.

**Corequisite:** AMT A289L.

**Special Fees:**

- Examines the fundamentals of design, installation, operation, testing, and maintenance of airborne communication, navigation, instrument, and auto flight systems.

**AMT A287** Reciprocating Engine Installation and Operation 3 CR

- Examines the fundamentals of design, installation, operation, testing, and repair of aircraft reciprocating engines. Examines the application of performance testing and troubleshooting practices commonly used to diagnose and correct aircraft engine problems.

**Contact Hours:** 3 + 0

**Prerequisites:** AMT A274.

**AMT A287L** Reciprocating Engine Installation and Operation Lab 2 CR

- Examines the theory of and techniques used in the construction, operation, inspection, servicing, and repair of aircraft reciprocating engines. Examines the application of performance testing and troubleshooting practices commonly used to diagnose and correct aircraft engine problems.

**Contact Hours:** 0 + 5

**Prerequisites:** AMT A181L and AMT A187L.

**Corequisite:** AMT A287.

**Special Fees:**

- Examines the procedures and rules for performance of scheduled and non-scheduled aircraft inspections. Includes in-depth study of the installation, operation, and inspection of aircraft reciprocating engines. Examines the application of performance testing and troubleshooting practices commonly used to diagnose and correct aircraft engine problems.

**AMT A288** Turbine Engine Installation and Operation 3 CR

- Examines the procedures and rules for performance of scheduled and non-scheduled aircraft inspections. Includes in-depth study of the installation, operation, and inspection of aircraft reciprocating engines. Examines the application of performance testing and troubleshooting practices commonly used to diagnose and correct aircraft engine problems.

**Contact Hours:** 3 + 0

**Prerequisites:** AMT A181L and AMT A279L.

**Corequisite:** AMT A289L.

**Special Fees:**

- Examines the construction, operation, inspection, servicing, and repair of aircraft engine reciprocating engines. Examines the application of performance testing and troubleshooting practices commonly used to diagnose and correct aircraft engine problems.

**AMT A288L** Turbine Engine Installation and Operation Lab 2 CR

- Examines the construction, operation, inspection, servicing, and repair of aircraft engine reciprocating engines. Examines the application of performance testing and troubleshooting practices commonly used to diagnose and correct aircraft engine problems.

**Contact Hours:** 0 + 5

**Prerequisites:** AMT A181L and AMT A279L.

**Corequisite:** AMT A289.

**Special Fees:**

- Examines the construction, operation, inspection, servicing, and repair of aircraft engine reciprocating engines. Examines the application of performance testing and troubleshooting practices commonly used to diagnose and correct aircraft engine problems.

**AMT A289** Turbine Engine Installation and Operation 3 CR

- Examines the construction, operation, inspection, servicing, and repair of aircraft engine reciprocating engines. Examines the application of performance testing and troubleshooting practices commonly used to diagnose and correct aircraft engine problems.
ANTH A210 Introduction to Anthropological Linguistics 3 CR
Contact Hours: 3 + 0
Special Note: Offered as Demand Warrants.
Introduction to concepts in anthropological linguistics. This course examines approaches to representing structures of the language of the world and such topics as folk taxonomies, typologies, kinship, communicative interaction, and language change and variation, all in relation to cultures and societies.

ANTH A211 Fundamentals of Archaeology 3 CR
Contact Hours: 3 + 0
Special Note: Offered Fall Semesters.
Introduction to basic concepts, theories, and methods of archaeology with overview of historical development and major findings. Prepares students for summer field schools and more specialized courses.

ANTH A250 The Rise of Civilization 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Social Sciences Requirement.
Survey of the emergence of civilization in human cultural development. A foundation course covering biological emergence of modern humans, appearance of complex symbolic culture, domestication, urbanization, trade, ritual and ideology; and state formation. A comparative framework is used covering primary areas of civilization—Sumeria, Egypt, China, Indus River, Mesoamerica, South America—and secondary areas, including Southeast Asia, Japan, Africa, and North America.

ANTH A270 Cross-Cultural Perspectives on Women 3 CR
Contact Hours: 3 + 0
Special Note: Offered as Demand Warrants.
Surveys women cross-culturally exploring the nature of the relationship between gender and sex roles. Factors determining the status of women are sought in subsistence, mobility and access to power. Follows the female from subhuman primate, to the roles they've played as gatherers and goddesses, to movements such as the Chinese revolution and Western feminism.

ANTH A290 Special Topics in Anthropology 1-3 CR
Contact Hours: 1-3 + 0
Special Note: May be repeated once for credit with a change in subtitle.
Special topics course of general interest in anthropology.

ANTH A312 North American Archaeology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A211 recommended.
Special Note: Offered as Demand Warrants.
Tracing human developments in the New World North of Mexico up to European contact.

ANTH A324 Psychological Anthropology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A101 or ANTH A202.
History, major theories, methods, debates and findings in the intersection of the disciplines of anthropology and psychology regarding the investigation of human psychology in diverse cultural settings. Topics to be covered include: early approaches to the field of culture and personality; exploitation of the effects of culture on human emotion, motivation, cognition, notions of the self, culture and mental health/mental disorder, gender, altered states of consciousness, dreams, and culture change.

ANTH A325 Cook Inlet Anthropology 3 CR
Contact Hours: 3 + 0
Special Note: Offered Alternate Fall Semesters.
Study of the peoples and cultures of the Native, Russian and American periods of the Cook Inlet region. Includes original archaeological studies and ethnographic documents.

ANTH A330 Ancient Civilizations of Mexico and Guatemala 3 CR
Contact Hours: 3 + 0
Special Note: Offered as Demand Warrants.
Study of the origins, development and collapse of prehistoric cultural systems in Mexico and Guatemala. Includes basic description and theoretical analysis of different cases.

ANTH A333 Peoples and Cultures of Southeast Asia 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 recommended.
Special Note: Offered as Demand Warrants.
Cultural variation and unifying traditions of Southeast Asian peoples, including their prehistory, early cultural influences, effects of European contact, major cultural traditions and selected current issues.

ANTH A335 Native North Americans 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 recommended.
Special Note: Offered as Demand Warrants.
Traditional cultures of Native North Americans, effects of contact with Europeans and contemporary adaptations.

ANTH A336 Peoples and Cultures of South America 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202, A211 recommended.
Special Note: Offered as Demand Warrants.
Cultural traditions of South American peoples, including origins, prehistory, languages, biological and cultural affinities, effects of European contact, historical transformations, contemporary adaptations, and current issues.

ANTH A338 Peoples and Cultures of Scandinavia 3 CR
Contact Hours: 3 + 0
Special Note: Offered as Demand Warrants.
Cultural history and variations of Scandinavian peoples including their origins, prehistory, biological affinities, major migrations and selected current issues.

ANTH A350 Anthropology of Religion 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A101 or ANTH A202.
History, major theories, debates, and findings in the intersection of the disciplines of anthropology and art regarding the investigation of visual representations and aesthetics across cultures, and the impacts of globalization and tourism on indigenous art. Study of the cultural goals, production, care, and duration of pictorial representation from multiple perspectives.

ANTH A354 Culture and Ecology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A202 and ENVI A201.
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and junior standing.
Course Attributes: UAA GER Integrative Capstone.
Anthropological approaches to the relationships between cultural and ecological systems. Culture as an adaptive system and the role of various cultural subsystems in different adaptations. Application of ecological concepts to human societies; impacts of environmental change on human societies, and impacts of human societies on environments; ethnoecology and traditional ecological knowledge of indigenous communities; values of nature among Western and non-Western societies; and political ecology in relation to the juxtaposition of indigenous peoples within contemporary nation-states.

ANTH A360 Anthropology of Art 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A101 or ANTH A202.
Study of the relationship between language and culture with coverage of such topics as language variation, meaning in culture, taxonomies, and phonemic principles.

ANTH A365 Races: Modern Human Diversity 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Upper-division standing.
Special Note: Offered as Demand Warrants.
Survey of modern human biological variation in an evolutionary perspective. Comparison of the differences (and similarities) within and between modern human populations and the distribution of those differences.

ANTH A371 Selected Topics in Anthropology 1-3 CR
Contact Hours: 1-3 + 0
Special Note: May be repeated for credit.
Topic varies.

ANTH A375 Introduction to Cultural Resource Management 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A211.
Practical aspects of cultural resource management, from evaluating cultural resources and the appropriate laws to ethical conduct, mapping, and resume writing.

ANTH A400 Anthropology of Religion 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 recommended.
Special Note: Offered as Demand Warrants.
Descriptive and comparative study of religious phenomena in traditional societies including myth, ritual, magic, witchcraft, and shamanism.

ANTH A410 History of Anthropology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: 12 credits of Anthropology
Development of the science of anthropology, stressing the leaders in the field and the theories developed.
COURSE DESCRIPTIONS

ANTH A413 Peopling of the Americas 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A312.
Registration Restrictions: ANTH A211 strongly recommended.
Special Note: Offered as Demand Warrants.

Critical analysis of the literature concerning the origins of the first Americans, the
timing of the earliest migrations across the Bering Land Bridge, and the adaptations
developed by early peoples in the Americas from 12,000 to 8,000 years ago. Included is a
detailed analysis of relevant archaeological sites as well as linguistic and biological data
pertaining to Native American origins.

ANTH A415 Applied Anthropology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A101 or ANTH A202.
May be stacked with: ANTH A615.
Special Note: Offered Alternate Fall Semesters.
The methods, theory, and history of the application of cultural anthropology to
sociocultural issues and problems with an emphasis on the circumpolar north.

ANTH A416 Arctic Archaeology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A211.
Special Note: Offered Alternate Fall Semesters.
Origins and development of the prehistoric cultures of northern North America and
adjacent northeast Asia.

ANTH A425 Archaeology of Identity 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A211.
Examination of gender, age, social status, and ethnicity using archaeological data.

ANTH A427 Ethnohistory of Alaska Natives 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A200 and HIST A341 strongly recommended.
May be stacked with: ANTH A627.
Special Note: Offered Alternate Spring Semesters.
Examines major changes in Alaskan Native societies from contact through 1940
including initial contacts, disease, trade, warfare, education, missionization, economic
development, and political mobilization. Integrates different sources of information
including oral traditions, historical narratives, government documents, and archeological
evidence.

ANTH A429 Contemporary Alaska Native Society 3 CR
1940 - Present
Contact Hours: 3 + 0
Registration Restrictions: Junior standing
May be stacked with: ANTH A629.
Examines continuity and change in Alaska Native society from 1940 to present
covering militarization, Alaska statehood, Alaska Native Land Claims, subsistence, tribal
movements, cultural revitalization, and impacts of state and federal policies; regional,
economic, political, and cultural changes addressed, and key events and players
discussed.

ANTH A430 Research Methods in Cultural Anthropology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A202.
May be stacked with: ANTH A630.
Modes of scientific data gathering, analysis, and interpretation related to
sociocultural systems. Includes the logic of scientific inquiry, research design, data
recording, data manipulation, field work strategies, ethnographic and report writing,
economics in social science research, and grant proposal preparation.

ANTH A431 Field Methods in Archaeology 1-8 CR
Contact Hours: 0 + 3-24
Registration Restrictions: Faculty permission and ANTH A211 recommended.
May be stacked with: ANTH A631.
Special Fees.
Special Note: May be repeated once for credit.
Introduction to basic techniques of archaeological data recovery and recording,
laboratory processing, and preliminary analysis of archaeological materials.

ANTH A432 Hunting and Gathering Societies 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 recommended.
Special Note: Offered as Demand Warrants.
Cross-cultural analysis of hunting and gathering societies, including their prehistory,
subsistence, demography, economic and political organization, social structure, and
ideology, with special attention given to contemporary issues such as gender roles and
aboriginal land rights.

ANTH A434 Peoples and Cultures of Northeast Asia 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A101 or ANTH A202.
Special Note: ANTH A211 is recommended.
Examines cultural traditions of the indigenous peoples of Northeast Asia (Siberia,
the Russian Far East, Mongolia, Manchuria, Korea, Japan), including their origins,
prehistory, languages, biological affiliations, historical transformations, contemporary
cultures, and current problems.

ANTH A435 Northwest Coast Cultures 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A202.
Special Note: Offered as Demand Warrants.
An intensive appraisal of peoples of the Northwest coast, emphasizing various
interpretations of cultural history, cultural variation and cultural contact.

ANTH A436 Aleut Adaptations 3 CR
Contact Hours: 3 + 0
Special Note: Offered as Demand Warrants.
Intensive study of traditional and post-contact Aleut culture. Includes origins,
prehistoric, biological and cultural adaptations. Also considers contemporary Aleut
social, economic and political status.

ANTH A437 Eskimo Adaptations 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A200.
Special Note: Offered as Demand Warrants.
Eskimo peoples of the circumpolar north devoted primarily to Alaskan groups
including Inupiaq, Alutiiq, and Yup’ik (including Siberian Yup’ik). Includes
environment, language, social organization, subsistence patterns, contact with non-
Native peoples, art and architecture, and contemporary issues.

ANTH A438 Tlingit and Haida Adaptations 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A200 or ANTH A435 recommended.
Special Note: Offered as Demand Warrants.
Examines the adaptations of the Tlingit and Haida Indians to the northeastern
Pacific Coast of North America. The course is divided into precontact, traditional, and
ethnohistoric periods covering the time from earliest occupation of the region up to
1900. System comparison and contrast of the ecological, social, ceremonial, and cultural
characteristics of each society as well as responses to Euroamerican contact.

ANTH A439 Athapaskan Adaptations 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A200.
Special Note: Offered as Demand Warrants.
An analysis of traditional and contemporary cultures and history of the northern
Athapaskan speakers of the boreal forest of interior Alaska and northwestern Canada.
Emphasizes environmental adaptations, commonalities and variations in cultural
patterning, the impact of interactions with neighboring peoples including Europeans,
and culture change over time.

ANTH A445 Evolution of Humans and Disease 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A205.
Registration Restrictions: STAT A253 or STAT A307 strongly recommended.
May be stacked with: ANTH A645.
Special Note: Offered as Demand Warrants.
Interrelationships of human behavior, biology, and disease. Paleopathological
diagnosis.

ANTH A455 Medical Anthropology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A202 or ANTH A205.
May be stacked with: ANTH A655.
Special Note: Offered Alternate Fall Semesters.
Study of the relationship of human culture to health and disease. Includes ancient
disease and impact on human evolution, interrelationship between biology and culture,
alternative health systems, and applicability to contemporary problems.

ANTH A457 Food and Nutrition: An Anthropological Perspective 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A205 recommended.
May be stacked with: ANTH A657.
Special Note: Offered Alternate Spring Semesters.
Relationship of human culture to food and nutrition. Includes the history of human
diet and its relationship to biological and cultural evolution, contemporary human
nutrition in cross-cultural perspective, dietary adequacy and nutritional pathology,
food-getting and food-preparation technology, and relationship between food and
population.
ANTH A460  Peace, War, and Violence: An Anthropological Perspective 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A202.
Special Note: ANTH A211 recommended.
A critical evaluation of the archaeo logical and ethno graphic record concerning
violation, warfare, and peace-making in both within and between human societies.
Biological, ecological, cultural, and psychological theories of violence and warfare are
considered, and the consequences of violence and warfare for human societies are
assessed. Various social, political, symbolic, and ritual contexts for both peace-making
and legitimization of individual and group violence are considered. Levels and types of
violence in band, tribal, chiefdom, and state-level societies are considered, including
ethnic, genocide, and terrorism in contemporary global conflicts.

ANTH A476  Ethical Issues in Archaeology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A211.
May be stacked with: ANTH A676.
Examination of the ethical issues that confront archaeologists, and the
responsibilities they have to the public, the discipline, their colleagues, and member of
the cultures with whom they are working.

ANTH A480  Analytical Techniques in Archaeology 3 CR
Contact Hours: 0 + 9
Registration Restrictions: Faculty permission and ANTH A211 recommended.
May be stacked with: ANTH A680.
Special Fees.
Special Note: Offered as Demand Warrants.
Methods and techniques of description, classification, and analysis of archaeological
data. Laboratory work with archaeological specimens and data is emphasized.

ANTH A481  Museum Studies in Anthropology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A202 or ANTH A205 or ANTH A211.
Registration Restrictions: Six credits of Anthropology and/or museum studies.
May be stacked with: ANTH A681.
History and practice of anthropology in museums. Anthropological and
metaphysical dimensions of museums and material culture; the history of ethnographic
collecting and research (particularly in North America); critical theory and practice of
exhibitions and cultural representation; repatriation and indigenous museums in
historical context.

ANTH A482  Historical Archaeology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A211.
Special Note: Offered as Demand Warrants.
An examination of the field of historical archaeology, the place of historical
archaeology within the larger discipline of anthropological archaeology, the history of
research on historical sites, the nature of historical data, the uses of non-documentary
historical data, and ethnoarchaeology.

ANTH A483  Archaeology of Animals 4 CR
Contact Hours: 3 + 2
Prerequisites: ANTH A211.
May be stacked with: ANTH A683.
Special Fees.
Special Note: ANTH A480 recommended.
Methods and techniques for, and theoretical approaches to, the description, analysis,
and interpretation of animal bone assemblages from archaeological sites. Includes
identification and quantification of animal remains, paleoenvironmental and dietary
reconstruction, seasonality of site occupation, hunting and herding strategies, and the
role of animals in the economy and ideology of human societies.

ANTH A484  Lithic Technology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A211.
Special Fees.
Analysis of stone tool assemblages from archaeological sites, focusing on tool
manufacture, use, and discard processes. Includes tool replication as part of learning
the manufacturing process.

ANTH A485  Human Osteology 4 CR
Contact Hours: 3 + 2
Prerequisites: ANTH A205.
May be stacked with: ANTH A685.
Special Fees.
Methods of human skeletal identification, description, and analysis. Includes
identification of age and sex attributes. Lecture and laboratory format.
ANTH A627  Ethnography of Alaska Natives  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
May be stacked with: ANTH A427.
Special Fees.

ANTH A629  Contemporary Alaska Native Society  3 CR
1940 - Present
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
May be stacked with: ANTH A429.
Special Fees.

ANTH A630  Advanced Research Methods in Cultural Anthropology  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
May be stacked with: ANTH A430.
Special Fees.

ANTH A631  Field Methods in Archaeology  1-8 CR
Contact Hours:  0 + 3-24
Registration Restrictions: Written permission of the instructor.
May be stacked with: ANTH A431.
Special Fees.

ANTH A645  Advanced Evolution of Humans and Disease  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
May be stacked with: ANTH A445.
Special Fees.

ANTH A655  Advanced Medical Anthropology  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
May be stacked with: ANTH A455.
Special Fees.

ANTH A657  Nutritional Anthropology  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
May be stacked with: ANTH A457.
Special Fees.

ANTH A659  Ethnography of Alaska Natives  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
May be stacked with: ANTH A429.

ANTH A661  Advanced Museum Studies in Anthropology  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
May be stacked with: ANTH A481.
Special Fees.

ANTH A675  Cultural Resource Management  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
May be stacked with: ANTH A476.
Special Fees.

ANTH A676  Ethical Issues in Archaeology  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
May be stacked with: ANTH A480.
Special Fees.

ANTH A680  Advanced Analytical Techniques in Archaeology  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Written permission of the instructor and graduate standing.
May be stacked with: ANTH A480.
Special Fees.

ANTH A681  Advanced Museum Studies in Anthropology  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
May be stacked with: ANTH A481.
Special Fees.

ANTH A685  Advanced Medical Anthropology  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
May be stacked with: ANTH A455.
Special Fees.

Examinations in archaeology and cultural anthropology. Includes methods and theory of statistical interpretation of skeletal data.
ANTH A683  
**Zooarchaeology**  
4 CR  
Contact Hours: 3 + 2  
Registration Restrictions: Graduate standing  
May be stacked with: ANTH A483.  
Special Fees.  
Special Note: ANTH A680 recommended.  
Methods and techniques for, and theoretical approaches to, the description, analysis, and interpretation of animal bone assemblages from archaeological sites. Includes identification and quantification of animal remains, paleoenvironmental and dietary reconstruction, seasonality of site occupation, hunting and herding strategies, and the role of animals in the economy and ideology of human societies. Independent research in zooarchaeology involving preparation of comparative osteological materials and/or analysis of an assemblage of archaeological faunal materials.

ANTH A685  
**Advanced Human Osteology**  
4 CR  
Contact Hours: 3 + 2  
Registration Restrictions: Graduate standing  
May be stacked with: ANTH A485.  
Special Fees.  
Methods, techniques, and theoretical approaches to human skeletal identification, description, and analysis. Encompasses principles of growth, development, and remodeling as well as identification of age, sex, and racial attributes, and interpretation of pathological changes in human bone. Lecture and laboratory format.

ANTH A686  
**Advanced Applied Human Osteology**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: ANTH A485 or ANTH A685.  
Registration Restrictions: Graduate standing  
May be stacked with: ANTH A486.  
Special Fees.  
Methods, techniques, and theory of the applications of human osteology, including paleopathology, bioarchaeology, and forensic anthropology. Includes identification and analysis of age, sex, and population attributes from human skeletal remains, and the methods and theory of statistical interpretation of human skeletal data.

ANTH A690  
**Special Topics in Anthropology**  
1-3 CR  
Contact Hours: 1-3 + 0  
Registration Restrictions: Graduate standing  
Special Note: May be repeated with change of subtitle.  
Special topics in anthropology at the graduate level.

ANTH A692  
**Graduate Seminar in Anthropology**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing in Anthropology.  
Special Fees.  
Examination of advanced concepts, theory, and/or methodology in one of the four subfields of anthropology.

ANTH A695  
**Anthropology Practicum**  
3 CR  
Contact Hours: 0 + 9  
Registration Restrictions: ANTH A615 for Applied Cultural M.A. in Anthropology track; ANTH A675 for Cultural Resource Management M.A. in Anthropology track.  
Prerequisites may be taken concurrently with course.  
Special Fees.  
Special Note: Offered Fall and Spring Semesters.  
Anthropology practicum in the public or private sector. Emphasis on the application of anthropological skills under the supervision of an approved field instructor.

ANTH A699  
**Thesis Research**  
1-6 CR  
Contact Hours: 0 + 3-18  
Registration Restrictions: Candidacy status and permission of thesis chair.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Special Note: Students may enroll for variable credit, but a total of 6 credits are required for graduation. Offered Fall and Spring Semesters.  
Independent research conducted under the supervision of a student's graduate committee.

ART - ART  
**Offered through the College of Arts and Sciences**  
**Fine Arts Building (ARTS), Room 302A, 786-1783**  
[http://art.uaa.alaska.edu](http://art.uaa.alaska.edu)

**ART A100**  
**Two-Dimensional Activities**  
1-3 CR  
(Contact Topics in Drawing, Design, or Painting)  
Contact Hours: 0 + 2-6  
Special Fees.  
Special Note: Does not satisfy BA or BFA degree requirements. May be repeated 3 times for credit in different topic areas.  
Art studio topics in drawing, painting, or design may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

**ART A101**  
**Three Dimensional Activities**  
1-3 CR  
(3-D Materials and Techniques)  
Contact Hours: 0 + 2-6  
Special Fees.  
Special Note: Does not satisfy BA or BFA degree requirements. May be repeated 3 times for credit in different topic areas.  
Art studio topics in sculpture, ceramics, or metalsmithing may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

**ART A102**  
**Fiber and Basketry Activities**  
1-3 CR  
(Topics in Fibers, Basketry, Weaving or Papermaking)  
Contact Hours: 0 + 2-6  
Special Fees.  
Special Note: Does not satisfy BA or BFA degree requirements. May be repeated 3 times for credit in different topic areas.  
Art studio topics in fibers, basketry, weaving, or papermaking may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

**ART A103**  
**Replicative Arts**  
1-3 CR  
(Topics in Printmaking, Photography, & Digital Arts)  
Contact Hours: 0 + 2-6  
Special Fees.  
Special Note: Does not satisfy BA or BFA degree requirements. May be repeated 3 times for credit in different topic areas.  
Art studio topics in printmaking, photography, and digital arts may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

**ART A104**  
**Multi-Media Activities**  
1-3 CR  
Contact Hours: 0 + 2-6  
Special Fees.  
Special Note: Does not satisfy BA or BFA degree requirements. May be repeated 3 times for credit in different topic areas.  
Art studio topics combining two or more disciplines in multi-media art processes to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

**ART A105**  
**Beginning Drawing**  
3 CR  
Contact Hours: 0 + 6  
May be stacked with: ART A205, A305, and A405.  
Special Fees.  
Introduction to elements of drawing based on development of skill using wet and dry media such as pencil, charcoal, conte, ink, and brush. Class and homework assignments in drawing and composition of objects, still lifes, perspective effects, and the human figure.

**ART A111**  
**Two-Dimensional Design**  
3 CR  
Contact Hours: 0 + 6  
Special Fees.  
Study of the organization, structure, and composition of form through the use of the basic design elements including color. Emphasis on development of design as related to two-dimensional art.

**ART A112**  
**Color Design**  
3 CR  
Contact Hours: 0 + 6  
Special Fees.  
Study of fundamentals of color and two-dimensional visual perception. Projects will emphasize evaluation and mixing of color.
ART A113 Three-Dimensional Design 3 CR
Contact Hours: 0 + 6
Special Fees.

ART A160 Art Appreciation 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Fine Arts Requirement.
Special Fees.
- Development of an appreciation of all the visual arts. Emphasis is on the theories, practice, materials and techniques of the visual arts.

ART A180A Beginning Stained Glass 3 CR
Contact Hours: 3 + 0
Special Fees.
- Special Note: Does not satisfy BA in Art or BFA degree requirements.
- Introduces techniques including pattern designing, cutting, and lead came.

ART A180B Intermediate Stained Glass 1 CR
Contact Hours: 1 + 0
Prerequisites: ART A180A.
Special Fees.
- Special Note: Does not satisfy BA in Art or BFA degree requirements.
- Continuation of ART 180A emphasizing advanced use of lead came and copper foil.

ART A201 Beginning Handbuilt Ceramics 3 CR
Contact Hours: 0 + 6
May be stacked with: ART A301 and A401.
Special Fees.
- Introduction to ceramic materials and processes. Emphasis on handbuilt forming methods and earthenware temperature range. Includes clays, clay bodies, slips, glazes, and firing process. Introduces ceramic history, idea development and creative problem solving.

ART A202 Beginning Wheelthrown Ceramics 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A201.
May be stacked with: ART A302 and A402.
Special Fees.
- Introduction to ceramic materials and processes. Emphasis on wheelthrowing methods and stoneware temperature range. Includes clays, clay bodies, slips, glazes, and firing process. Introduces ceramic history, idea development and creative problem solving.

ART A203 Introduction to Art Education 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Registration Restrictions: Sophomore status.
Special Fees.
- Introduction to general art education, museum education, and to theories, issues, and practices in historical and contemporary contexts. Includes rationales for teaching and learning art, theories of children's developmental levels in art, art and technology, and teaching practices through text and journal readings.

ART A204 History and Philosophy of Art Education 3 CR
Contact Hours: 3 + 0
Prerequisites: ART A203.
Registration Restrictions: Sophomore status.
Special Fees.
- Overview of the history and philosophical foundations of art education in the United States and implications in Alaska. Examines the theories and practices of teaching art in the public schools, cultural centers, and museums.

ART A205 Intermediate Drawing 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105.
May be stacked with: ART A105, A305, and A405.
Special Fees.
- Expands visual awareness, technical ability and creative/conceptual input. Complex technical and intuitive/creative approaches to drawing will be investigated. Class and homework assignments in drawing objects, still life, perspective effects, and human forms.

ART A209 Beginning Metalsmithing and Jewelry 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105.
May be stacked with: ART A309 and A409.
Special Fees.
- Introduction to the basic techniques, tools, and materials, and application of design principles. Includes historical considerations.
ART A257  Digital Art and Design I  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111.
Registration Restrictions: Instructor permission.
Special Fees.
Special Note: May be repeated once for credit with substantive change in media or emphasis with instructor approval.
Introduces basic 2-D digital tools and techniques for creative expression, including vector and raster graphics.

ART A261  History of Western Art I  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: UAA GER Fine Arts Requirement UAA GER Humanities Requirement.
Special Fees.
Origins and development of painting, sculpture, and architecture. Covers the history of art from prehistory through the Medieval Period of the Western World.

ART A262  History of Western Art II  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: UAA GER Fine Arts Requirement UAA GER Humanities Requirement.
Special Fees.
Origins and development of painting, sculpture, and architecture. Covers the history of art from the Renaissance through the modern period with an emphasis on the art of the Western World.

ART A271  Beginning Surface Design  3 CR
Contact Hours: 0 + 6
May be stacked with: ART A271 and A471.
Introduction to resist-dyeing processes using directly applied resists (wax, rice paste) in designing and patterning the art fabric surface.

ART A272  Beginning Fiber Structures  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105.
May be stacked with: ART A372 and A472.
Special Fees.
Introduction to hand constructed textiles and structural forms adapting traditional methodology to the production of contemporary art.

ART A273  Beginning Woven Forms  3 CR
Contact Hours: 0 + 6
May be stacked with: ART A373 and A473.
Special Fees.
May be repeated once for credit with substantive change in media or emphasis.
Introduction to European floor loom. Various on-loom techniques are utilized in the production of the art fabric.

ART A295  Internship Digital Art  1-3 CR
Contact Hours: 0 + 2-6
Registration Restrictions: Admitted to program and completed eight program core courses, and three program concentration courses.
Special Note: Offered only at Kenai Peninsula College. May be repeated for a total of six credits.
Internship position. Placement is dependent upon interest, expertise, prerequisites, and appropriateness to the position.

ART A295V  Internship Visual Art  1-3 CR
Contact Hours: 0 + 2-6
Registration Restrictions: Must have completed four program core courses, at least one upper-division studio course, and must be enrolled in six credits including internship (waived during summer session), and have a 3.0 GPA.
Grade Mode: Pass/No Pass.
Special Note: May be repeated once for a total of six credits. Offered only at Kenai Peninsula College.
Internship position. Placement dependent upon interest, expertise, prerequisites and appropriateness to position.

ART A301  Intermediate Handbuilt Ceramics  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A113 and ART A201.
Registration Restrictions: Instructor permission.
May be stacked with: ART A201 and A401.
Special Fees.
Special Note: May be repeated once for credit with substantive change in media or emphasis.
Intensified development of handbuilt forming methods with emphasis on form, content, and creative problem solving. Focus on the ceramic process as a vehicle for personal creative expression.

ART A302  Intermediate Wheelthrown Ceramics  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A113 and ART A201 and ART A202.
Registration Restrictions: Instructor permission.
May be stacked with: ART A201 and A401.
Special Fees.
Special Note: May be repeated once for credit with substantive change in media or emphasis.
Intensified development of wheelthrowing techniques with emphasis on the history, aesthetics, and porcelain temperature range of functional pottery. Focus is on the ceramic process as a vehicle for personal creative expression.

ART A303  Curriculum Planning and Interpretation in Art  3 CR
Contact Hours: 3 + 0
Prerequisites: ART A203.
Registration Restrictions: Junior status.
Special Fees.
Introduce K-12 curriculum planning, teaching art criticism and aesthetics. Describe, analyze, interpret and evaluate the major characteristics of art forms, meanings and themes.

ART A304  Art Experience: Social, Cultural, and Educational  3 CR
Contact Hours: 3 + 0
Prerequisites: ART A203.
Registration Restrictions: Junior status.
Special Fees.
Examines shared human experiences involved in making and responding to visual images and artifacts from different cultural perspectives. Discusses how the understanding, appreciation and interaction of particular images and objects evolve and affect the fundamental processes of perception in different cultural settings.

ART A305  Advanced Drawing  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A205.
Registration Restrictions: Instructor permission.
May be stacked with: ART A105, A205, and A405.
Special Fees.
Special Note: May be repeated once for credit with substantive change in media or emphasis.
Refinement of advanced drawing and conceptual skills by examining contemporary techniques and materials.

ART A307  Life Drawing and Composition I  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A205.
Registration Restrictions: Instructor permission.
May be stacked with: ART A407.
Special Fees.
Special Note: May be repeated once for credit with substantive change in media or emphasis.
Drawing from live models to explore possibilities in design, composition and media. Emphasis on form and space using wet and dry media including charcoal, graphite, pen, and brush.

ART A309  Intermediate Metalsmithing and Jewelry  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A209.
Registration Restrictions: Instructor permission.
May be stacked with: ART A209 and A409.
Special Fees.
Special Note: May be repeated once for credit with substantive change in media or emphasis.
Continued investigation of techniques, tools, and materials used in metalsmithing and jewelry.
ART A311 Intermediate Sculpture 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A211.
Registration Restrictions: Instructor permission.
May be stacked with: ART A211 and A411.
Special Fees.
Special Note: May be repeated once for credit with substantive change in media or emphasis.
Investigation of sculptural concepts and processes with emphasizing aesthetics and history of modern sculpture. Focus on development of construction skills with access to advanced machines and tools and their applications.

ART A312 Intermediate Watercolor Painting 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A212.
Registration Restrictions: Instructor permission.
May be stacked with: ART A212 and A412.
Special Fees.
Special Note: May be repeated once for credit with substantive change in media or emphasis.
Intensive development of expressive skills including watercolor painting techniques and refines material uses with the emphasis on individual approaches to traditional and non-traditional pictorial and conceptual problems.

ART A313 Intermediate Painting 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A213.
Registration Restrictions: Instructor permission.
May be stacked with: ART A213, A413, and A414.
Special Fees.
Special Note: May be repeated once for credit with substantive change in media or emphasis.
Intensive development of expressive skills in painting. Reviews beginning painting techniques and refines material uses with emphasis on individual approaches to pictorial and conceptual problems.

ART A314 Printmaking—Litho/Serigraphy 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A215.
Registration Restrictions: Instructor permission.
May be stacked with: ART A215, A315, and A415.
Special Fees.
Special Note: May be repeated once for credit with substantive change in medium or emphasis.
Explores the major processes (lithography, serigraphy, intaglio, and relief processes) linked to contemporary and digital developments.

ART A315 Intermediate Printmaking 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A215.
Registration Restrictions: Instructor permission. For the study of lithography or serigraphy, ART A314 is required as a prerequisite.
May be stacked with: ART A215, A314, and A415.
Special Fees.
Special Note: May be repeated 3 times for credit with change of printmaking process.
Investigation of lithographic and serigraphic printmaking processes. Continued development of printing techniques and individual creative concepts in image making.

ART A323 Color Photography 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A224.
Registration Restrictions: Instructor permission.
Special Fees.
Special Note: May be repeated once for credit with substantive change in medium or emphasis.
Investigates techniques and conceptual approaches to color photography. Encourages exploration of diverse approaches to color processes in photography.

ART A324 Intermediate Photography 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A224.
Registration Restrictions: Instructor permission.
Special Fees.
Investigates intermediate level techniques and conceptual approaches to photography. Encourages exploration of diverse attitudes and approaches in black and white photography for artistic expression, shooting, processing, and printing of black and white film.

ART A325 Digital Media for Photography 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A323 and [ART A225 or ART A324].
Registration Restrictions: If ART A324 is used as a prerequisite, it must have integrated darkroom/digital content.
Special Note: Offered only at Kenai Peninsula College.
Encourages different creative points of view using digital photographic technology for artistic expression. Includes digital image acquisition with a digital or film camera and film scanner while further developing studio lighting, commercial digital approaches, digital darkroom techniques, and printing digital images.

ART A331 Experimental Photography 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A324.
Registration Restrictions: Instructor permission.
Special Fees.
Special Note: May be repeated once for credit with substantive change in medium or emphasis.
Investigates experimental techniques and conceptual approaches to photography. Encourages exploration of diverse artistic expression.

ART A352 Intermediate Graphic Design 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A252.
May be stacked with: ART A452.
Special Fees.
Special Note: May be repeated for credit.

ART A353 Illustration I 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A257.
Registration Restrictions: Instructor permission.
May be stacked with: ART A453.
Special Fees.
Special Note: May be repeated once for credit.

ART A357 Digital Art and Design II 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A257.
Registration Restrictions: Instructor permission.
Special Fees.
Special Note: May be repeated once for credit with substantive change in emphasis with faculty approval.
Exploreation of 2-D digital tools and techniques for creative expression, emphasizing production of hard copy.

ART A360A History of Non-Western Art I 3 CR
Contact Hours: 3 + 0
Prerequisites: [ART A261 or ART A262] and ENGL A111.
Course Attributes: UAA GER Fine Arts Requirement UAA GER Humanities Requirement.
Special Fees.
Emphasis on a comparative approach to non-western civilizations including Indian art, Tibetan and Southeastern art, Chinese art, and Japanese art.

ART A360B History of Non-Western Art II 3 CR
Contact Hours: 3 + 0
Prerequisites: [ART A261 or ART A262] and ENGL A111.
Course Attributes: UAA GER Fine Arts Requirement UAA GER Humanities Requirement.
Special Fees.
Emphasis on a comparative approach to non-western civilizations including Islamic art, African art, art of Pacific cultures, and art of the Americas.

ART A361 History of Graphic Design 3 CR
Contact Hours: 3 + 0
Prerequisites: ART A262.
Registration Restrictions: Instructor permission.
Special Fees.
History of graphic design emphasizing its beginnings to the present day including traditional and technological developments.

ART A362 History of Modern Art 3 CR
Contact Hours: 3 + 0
Prerequisites: ART A262.
Registration Restrictions: Instructor permission.
Special Fees.
Historical development of art from the mid-19th century to the 1930s. Various visual arts are placed within the social and cultural contexts of this period.
ART A363  History of Contemporary Art  3 CR
Contact Hours: 3 + 0
Prerequisites: ART A262.
Registration Restrictions: Instructor permission.
Special Fees.
Analysis of the work and thought of major artists in painting, sculpture, architecture, performance and installation art from post-World War II to the present. Examines the relationship of visual art to social and cultural trends during this period.

ART A364  Italian Renaissance Art  3 CR
Contact Hours: 3 + 0
Prerequisites: ART A262.
Registration Restrictions: Instructor permission.
Special Fees.
Renaissance art from early Florentine beginnings to the High Renaissance of Venice and Mannerist developments.

ART A366  Asian Art  3 CR
Contact Hours: 3 + 0
Prerequisites: ART A261 or ART A262.
Registration Restrictions: Instructor permission.
Special Fees.
Visual arts of Asiatic culture; prehistoric to the present.

ART A367  History of Photography  3 CR
Contact Hours: 3 + 0
Prerequisites: ART A262.
Registration Restrictions: Instructor permission.
Special Fees.
Investigates the history of photography; its origins, chronology, culture context, and the significant contributions of individual photographers.

ART A371  Intermediate Surface Design  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A271.
Registration Restrictions: Instructor permission.
May be stacked with: ART A271 and A471.
Special Note: May be repeated once for credit with substantive change in media or emphasis.
Continued examination of resist dyeing as a culture-rooted art and its place in the contemporary fiber movement. Bound resists (Shibori, fold dyeing, Plangi and Tritik) are utilized as the basis for individual expression and design purposes.

ART A372  Intermediate Fiber Structures  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A272.
Registration Restrictions: Instructor permission.
May be stacked with: ART A272 and A472.
Special Note: May be repeated once for credit with substantive changes in media or emphasis.
Explores hand-constructed textiles, traditional percussion textiles and structural forms including paper and felt making as interpreted in a contemporary context.

ART A373  Intermediate Woven Forms  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A273.
Registration Restrictions: Instructor permission.
May be stacked with: ART A273 and A473.
Special Note: May be repeated once for credit with substantive change in media or emphasis.
Continued exploration of floor loom techniques and their use with off-loom processes for the production of contemporary art.

ART A376  CAD for the Arts  3 CR
Contact Hours: 2 + 2
Prerequisites: ART A357 or THR A141.
Crosslisted with: THR A356.
Special Fees.
Concepts and techniques of 2D and 3D computer-aided drafting. Details language and commands shared by most CAD packages with a focus on technical drawings for layout, design, and 3D computer drafting and modeling techniques, with applications to scenic, lighting, and 3D studio arts.

ART A390  Selected Topics in Studio Art  3 CR
Contact Hours: 0 + 6
Registration Restrictions: Instructor permission and 6 credits of upper division coursework in same studio discipline.
May be stacked with: ART A490.
Special Fees.
Special Note: Prerequisites may vary with the different studio topics. May be repeated for credit in different studio topics for a maximum of 9 credits.
Selected topics in studio art allowing for concentrated study in a specific area.

ART A392  Selected Topics in Art Education  1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Instructor permission. Prerequisites will vary depending upon topic.
Special Fees.
Special Note: May be repeated for credit in different topics for a maximum of 12 credits.
Topics in selected areas of art education.

ART A401  Advanced Handbuilt Ceramics  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A111 and ART A211 and ART A301.
Registration Restrictions: Instructor permission.
May be stacked with: ART A201 and A301.
Special Fees.
Special Note: May be repeated once for credit.
Covers functional ceramics, vessel forms and sculptural ceramics. Focus is on the ceramic process as a vehicle for personal creative expression.

ART A402  Advanced Wheelthrown Ceramics  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A111 and ART A211 and ART A302.
Registration Restrictions: Instructor permission.
May be stacked with: ART A202 and A302.
Special Fees.
Special Note: May be repeated once for credit.
Covers functional wheelthrown ceramics and the vessel form. Focus is on the ceramic process in a variety of firing temperatures as a vehicle for personal creative expression.

ART A403  Arts and Technology  3 CR
Contact Hours: 3 + 0
Prerequisites: ART A203.
Registration Restrictions: Junior status.
Special Fees.
Surveys the growing use of technology in art classrooms and museums. Examines applications for information management in collections and digital imaging, and the use of technology in the service of art education, museum education, and university web-based courses.

ART A404  Diversity and Visual Culture  3 CR
Contact Hours: 3 + 0
Prerequisites: ART A203.
Registration Restrictions: Junior status.
Special Fees.
Overview of the issues of diversity arising in art contexts, cultural institutions including museums, community arts organizations, and universities as well as visual culture, educational texts and history. Develop a theoretical foundation based on educational and cultural models of diversity addressing race, gender, class and pedagogical methodologies.

ART A405  Experimental Drawing  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A305.
Registration Restrictions: Instructor permission.
May be stacked with: ART A105, A205, and A305.
Special Fees.
Special Note: May be repeated once for credit.
Integrates the development of ideas and personal iconography through experimentation with contemporary techniques and materials in drawing.

ART A407  Life Drawing and Composition II  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A307.
Registration Restrictions: Instructor permission.
May be stacked with: ART A307.
Special Fees.
Special Note: May be repeated once for credit.
Drawing from live models to explore advanced possibilities in design, composition and media. Emphasis on form and space using wet and dry media: charcoal, graphite, pen, brush, etc. Special emphasis on conceptual drawing concerns.
ART A409 Advanced Metalsmithing and Jewelry 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A309.
Registration Restrictions: Instructor permission.
May be stacked with: ART A209 and A309.
Special Fees.
Special Note: May be repeated once for credit.
Further investigation of advanced techniques, tools, and materials and more advanced design principles. Special emphasis on holloware and forging and understanding of these traditional techniques in a historical context.

ART A411 Advanced Sculpture 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A311.
Registration Restrictions: Instructor permission.
May be stacked with: ART A211 and A311.
Special Fees.
Special Note: May be repeated once for credit.
Exploration of concepts and processes emphasizing aesthetics and history of contemporary sculpture. Continued development of construction skills with access to more advanced machines, tools, and welding equipment.

ART A412 Advanced Watercolor Painting 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A312.
Registration Restrictions: Instructor permission.
May be stacked with: ART A212 and A312.
Special Fees.
Special Note: May be repeated once for credit.
Continued investigation of more advanced watercolor techniques and approaches regarding conceptual/pictorial constructions. Encourages experimentation, research and technical approaches.

ART A413 Advanced Painting 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A313.
Registration Restrictions: Instructor permission.
May be stacked with: ART A213, A313, and A414.
Special Fees.
Special Note: May be repeated once for credit.
Development of advanced painting techniques. Focus on complex concepts and pictorial constructions including research and experimentation in various media.

ART A414 Senior Painting Projects 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A413.
Registration Restrictions: Instructor permission.
May be stacked with: ART A213, A313, and A413.
Special Fees.
Special Note: May be repeated once for credit.
Expansion of individual ideas and concepts through continued experimentation and research in painting techniques and methodologies. Focus on developing a cohesive body of work.

ART A415 Advanced Printmaking 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A314 and ART A315.
Registration Restrictions: Instructor permission.
May be stacked with: ART A215, A314, and A315.
Special Fees.
Special Note: May be repeated three times for credit with change of printmaking process.
Continued development in major printmaking processes including lithography, serigraphy, intaglio, and relief. Explores connections between various printmaking disciplines and contemporary practices, especially digital development and production of one of a kind projects. Development of individual creative concepts and experimentation in image making is expected. Interdisciplinary approaches encouraged.

ART A424 Advanced Photography 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A324.
Registration Restrictions: Instructor permission.
Special Fees.
Special Note: May be repeated once for credit.
Investigates advanced level techniques and conceptual approaches to traditional and digital photography. Encourages exploration of diverse approaches in photography.

ART A452 Advanced Graphic Design 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A352.
May be stacked with: ART A352.
Special Fees.
Special Note: May be repeated for credit.
Applied problems in advanced graphic design.

ART A453 Illustration II 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A353.
Registration Restrictions: Instructor permission.
May be stacked with: ART A353.
Special Fees.
Special Note: May be repeated once for credit.
Applied problems in advanced illustration.

ART A456 3-D Digital Animation 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A357.
Registration Restrictions: Instructor permission.
Special Fees.
Studio course in computer animation: geometric modeling, motion specification, lighting, texture mapping, rendering, compositing, using production techniques and systems for computer-synthesized animation.

ART A457 Advanced Surface Design 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A371.
Registration Restrictions: Instructor permission.
May be stacked with: ART A271 and A371.
Special Note: May be repeated once for credit.
Development and refinement of individual problems in resist-dyeing using fluid, bound and print/transfer techniques.

ART A472 Advanced Fiber Structures 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A372.
Registration Restrictions: Instructor permission.
May be stacked with: ART A272 and ART A372.
Special Fees.
Special Note: May be repeated once for credit.
Refinement of fiber processes with an emphasis on structural forms, materials, approaches, scale relationships and installations.

ART A473 Advanced Woven Forms 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A373.
Registration Restrictions: Instructor permission.
May be stacked with: ART A273 and A373.
Special Fees.
Special Note: May be repeated once for credit with substantive change in media or emphasis.
Further development of advanced loom weaving techniques and refinement of personal imagery and problems related to contemporary approaches to fiber art.

ART A490 Selected Topics in Studio Art 3 CR
Contact Hours: 0 + 6
Registration Restrictions: Instructor permission and 6 credits of upper division coursework in same studio discipline.
May be stacked with: ART A390.
Special Fees.
Special Note: Prerequisites may vary with the different studio topics. May be repeated for credit in different studio topics for a maximum of 9 credits.
Selected topics in studio art allowing for advanced concentrated study in a specific area.

ART A491 Senior Seminar 3 CR
Contact Hours: 3 + 0
Prerequisites: ART A262 and PHIL A401.
Registration Restrictions: Instructor permission, Senior status, and completion of GER Tier 1 (basic college-level skills) courses.
Course Attributes: UAA GER Integrative Capstone.
Special Fees.
Special Note: Offered fall semester only.
Lectures, discussions, workshops and projects integrating the knowledge of professional and technical practices for the artist. Develops effective communication skills to be a practicing artist. Demonstrates the necessary art historical, aesthetic, and critical tools to resolve and assess creative problem solving approaches.
ART A492  Art History Seminar  3 CR
Contact Hours: 3 + 0
Prerequisites: ART A261 or ART A262 or ART A360.
Registration Restrictions: Instructor permission.
Special Fees.
Special Note: May be repeated 3 times for credit in different topics for a maximum of 12 credits.
Seminar in art history.

ART A495  Practicum 1-3 CR
Contact Hours: 0 + 2-6
Registration Restrictions: Instructor permission and a minimum of 3 credits of 400-level coursework in selected content area and approval of area coordinator.
Grade Mode: Pass/No Pass.
Special Note: A total of 6 credits may be applied to an art degree.
  Management and operation of art studio for advanced student seeking an art career.
  Gain hands-on skills in organization of materials and the physical environment. Some working supervision of students.

ART A498  Individual Research 1-3 CR
Contact Hours: 0 + 2-6
Registration Restrictions: Instructor permission and minimum of 6 credits upper division studio coursework in selected studio area and approval of area coordinator.
Special Fees.
Special Note: A total of 6 credits may be applied toward an Art degree.
  Individual art research focusing on professional development, conceptual growth and awareness, critical thinking, and advanced technical proficiency in any of the major disciplines.

ART A499  Thesis  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A491.
Registration Restrictions: Declared major in BFA in Art and approval of BFA Committee.
Grade Mode: Pass/No Pass.
Student will produce and exhibit a body of work based on an approved thesis proposal. Exhibition of work will be in designated group show.

ASL - AMERICAN SIGN LANGUAGE
Offered through the College of Arts and Sciences
Administration/Humanities Building (ADM), Suite 287, 786-4030
www.uaa.alaska.edu/languages

ASL A101  Elementary American Sign Language I 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Introductory course for students with no previous knowledge of ASL. Develops receptive and expressive signing skills in ASL for effective communication at the elementary level. Students gain understanding of basic cross-cultural perspectives. Course conducted in American Sign Language.

ASL A102  Elementary American Sign Language II 3 CR
Contact Hours: 3 + 0
Prerequisites: ASL A101.
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Continuation of introductory course. Further develops elementary receptive and expressive signing skills in ASL for effective communication. Enhances appreciation of cross-cultural perspectives. Course conducted in American Sign Language.

ASL A201  Intermediate American Sign Language I 3 CR
Contact Hours: 3 + 0
Prerequisites: ASL A102.
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Intermediate course for students with basic knowledge of ASL. Enhances receptive and expressive signing skills for effective communication at the intermediate level. Students critically examine diverse cultural perspectives. Course conducted in American Sign Language.

ASL A202  Intermediate American Sign Language II 3 CR
Contact Hours: 3 + 0
Prerequisites: ASL A201.
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Continuation of first semester in intermediate ASL. Further develops receptive and expressive signing proficiency for effective communication and in preparation for advanced study of ASL. Students interpret diverse cultural perspectives. Course conducted in American Sign Language.

ASTR - ASTRONOMY
Offered through the College of Arts and Sciences
ConocoPhillips Integrated Sciences Building (CPSB), Room 101, 786-1238
http://salt.uaa.alaska.edu

ASTR A103  Solar System Astronomy 3 CR
Contact Hours: 3 + 0
Registration Restrictions: High school algebra and trigonometry or equivalent.
Corequisite: ASTR A103L.
Course Attributes: UAA GER Natural Sciences Requirement.
Special Fees.
Introduction to solar system astronomy; emphasis on most recent results from space research. History of astronomy; instruments, planetary motion, physical properties of planets, satellites, comets, and solar system evolution.

ASTR A103L  Solar System Astronomy Laboratory 1 CR
Contact Hours: 0 + 3
Registration Restrictions: High school algebra and trigonometry or equivalent.
Corequisite: ASTR A103.
Course Attributes: UAA GER Natural Sciences Lab Only.
Special Fees.
Introductory astronomy laboratory with experiments in basic observational methods and data analysis applicable to the study of the solar system.

ASTR A104  Stars, Galaxies and Cosmology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: High school algebra and trigonometry or equivalent.
Corequisite: ASTR A104L.
Course Attributes: UAA GER Natural Sciences Requirement.
Special Fees.
Introduction to solar, stellar, galactic, extragalactic astronomy. Stars, clusters, galaxies, stellar evolution, the universe as a whole, and cosmology.

ASTR A104L  Stars, Galaxies and Cosmology Laboratory 1 CR
Contact Hours: 0 + 3
Registration Restrictions: High school algebra and trigonometry or equivalent.
Corequisite: ASTR A104.
Course Attributes: UAA GER Natural Sciences Lab Only.
Special Fees.
Introductory astronomy laboratory with experiments in basic observational methods and data analysis applicable to the study of the Sun, stellar, galactic, and extragalactic astronomy.

AT - AVIATION TECHNOLOGY
Offered through the Community & Technical College
Aviation Complex, 2811 Merrill Field Drive, 786-7200
www.uaa.alaska.edu/ctc/aviation

AT A053  Preventive Maintenance for Pilots and Owners 1-4 CR
Contact Hours: 5.2 + 2-8
Grade Mode: Pass/No Pass.
Special Fees.
For pilots/owners to gain knowledge and experience in items of aircraft and engine maintenance that they may legally perform. Beneficial to people who intend to buy airplanes.
## COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Registration Restrictions</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>ATA A281</td>
<td>Aviation Maintenance: Airframe and Powerplant Mechanic</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>Registration Restrictions: Approved FAA Airman Certificate and/or Rating Application FAA Form 8610-2</td>
<td>MATH A107 and PHYS A123</td>
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<tr>
<td>ATA A362</td>
<td>Aerodynamics and Flight Performance</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: MATH A107 and PHYS A123</td>
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<tr>
<td>ATA A402</td>
<td>Air Transportation System</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Upper Division Standing</td>
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<tr>
<td>ATA A102</td>
<td>Introduction to Aviation Technology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 2 + 2</td>
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<td>ATA A132</td>
<td>History of Aviation</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0</td>
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<td>ATA A133</td>
<td>Aviation Law and Regulations</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0</td>
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<td>ATA A134</td>
<td>Principles of Aviation Administration</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td>ATA A233</td>
<td>Aviation Safety</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>ATA A290</td>
<td>Selected Topics in Aviation Technology</td>
<td>1-6 CR</td>
<td>0 + 6 - 0 + 12</td>
<td>Registration Restrictions: Department permission required.</td>
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<tr>
<td>ATA A295</td>
<td>Aviation Internship I</td>
<td>1-3 CR</td>
<td>0 + 5</td>
<td>Registration Restrictions: Grade of C or better in 12 credits of Aviation Technology-related classes.</td>
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<td>ATA A331</td>
<td>Human Factors in Aviation</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: AAS in aviation field or aviation-related experience</td>
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<tr>
<td>ATA A335</td>
<td>Airport Operations</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ATA A102 and ATA A134</td>
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<tr>
<td>ATA A336</td>
<td>Air Service Operations</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Junior standing</td>
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<tr>
<td>ATA A337</td>
<td>Airline Operations</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ATA A102 and ATA A134</td>
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<td>ATA A415</td>
<td>Company Resource Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Department permission required.</td>
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<tr>
<td>ATA A425</td>
<td>Civil Aviation Security</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Aviation-related work experience or training, Instructor approval</td>
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<tr>
<td>ATA A431</td>
<td>Aircraft Accident Investigation</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ATA A233 and ATA A331</td>
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ATA A490 - Advanced Topics in Aviation Technology | 1-6 CR
Contact Hours: 0 + 0-12
Registration Restrictions: Department permission required.
Special Note: A maximum of 6 credits may be applied toward the BSAT degree. May be repeated for credit under different topic.
Provides advanced theoretical and/or experiential learning in all areas of Aviation Technology (aviation maintenance, professional piloting, aviation administration, and air traffic control). Specific course content is determined by current industry trends and student needs. Emphasizes the following applications to current technical information: (1) analysis, (2) evaluation, and (3) synthesis.

ATA A492 - Air Transportation System Seminar | 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A488.
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses. Junior standing and Division approval required.
Course Attributes: UAA GER Integrative Capstone.
- Analyzes and evaluates current events, issues, globalization, and emerging technologies in the air transportation industry, emphasizing present and future implications for the industry.
- Integrates technical, business, and general education knowledge to complete research and project assignments.

ATA A495 - Aviation Internship II | 1-3 CR
Contact Hours: 0 + 5-15
Registration Restrictions: Minimum grade of C required in 12 credits of Aviation Technology-related classes. Department permission required. Proof of accident insurance required. Junior standing required.
Grade Mode: Pass/No Pass.
Special Note: Open entry/Open exit. Students must apply to the Aviation Technology Division to coordinate placement prior to course enrollment.
- Provides specialized aviation-related work experiences pertinent to educational program and future employment objectives. Overseen by aviation industry professional and program faculty. Complete a major industry project specific to student's area of scholastic preparation.

ATC - AIR TRAFFIC CONTROL
Offered through the Community & Technical College Aviation Complex, 2811 Merrill Field Drive, 786-7200
www.uaa.alaska.edu/ctc/aviation

ATC A143 - ATC Regulations | 3 CR
Contact Hours: 3 + 0
- Introduces Federal Aviation Regulations governing the Air Traffic Control System and the role of air traffic control specialists within the federal system.

ATC A144 - ATC Flight Procedures | 3 CR
Contact Hours: 3 + 0
- Special Fees.
- Special Note: One hour in Flight Training Device required.
- Presents types of navigation aids and their operational characteristics. Introduces navigation tools and references, and their utilization.

ATC A147 - Pilot/Controller Techniques | 3 CR
Contact Hours: 3 + 0
Prerequisites: ATC A143.
- Examines methods of airport operations, as well as aeronautical lighting and other airport visual aids, such as airport markings and signs. Includes discussion of varying techniques used by pilots and controllers in all airspace classifications, as well as the various levels of air traffic control ranging from uncontrolled airports to highly complex international airports and the services available to pilots.

ATC A240 - Operations in Flight Service Station | 3 CR
Contact Hours: 3 + 0
Prerequisites: ATC A143 and ATP A235.
- Examines fundamentals of weather observation, use of FAA publications in flight planning, phraseologies, and radio frequencies used in air-ground communications.
- Presents decoding of civil Notice to Airmen (NOTAMS) and operating positions in Flight Service Stations.

ATC A241 - Control Tower Operations | 3 CR
Contact Hours: 3 + 0
Prerequisites: ATC A143 and ATC A147.
- Explains operating techniques of ATC airport facilities in visual and instrument conditions. Includes operations of airport lighting systems, proper phraseology, separation requirements, control techniques and emergency actions.

ATC A241L - Control Tower Operations Lab | 1 CR
Contact Hours: 0 + 2
Prerequisites: Requires (ATC A241 or concurrent enrollment).
Grade Mode: Pass/No Pass.
Special Fees.
- Employs hands-on time in the control tower simulator. Emphasizes real-life ATC situations to develop techniques for the manipulation of air traffic during taxi, takeoff, and landing.

ATC A242 - ATC Terminal Radar Procedures | 3 CR
Contact Hours: 3 + 0
Prerequisites: ATC A143 and ATP A235.
- Explores RADAR theory fundamentals and systems operation in air traffic control.
- Examines procedures of instrument traffic control in the terminal radar environment.

ATC A242L - ATC Terminal Radar Procedures Lab | 1 CR
Contact Hours: 0 + 2
Prerequisites: (ATC A242 or concurrent enrollment).
Grade Mode: Pass/No Pass.
Special Fees.
- Explores techniques of longitudinal, vertical, and lateral separation of air traffic using lab scenarios designed to develop routine problem solving processes to adapt the student controller to real-life ATC situations.

ATC A243 - ATC Enroute Procedures | 3 CR
Contact Hours: 3 + 0
Prerequisites: Requires ATC A242.
- Explores procedures of instrument traffic control in RADAR and non-RADAR environments. Emphasizes longitudinal, vertical, and lateral separation of air traffic.

ATC A243L - ATC Enroute Procedures Lab | 1 CR
Contact Hours: 0 + 2
Prerequisites: (ATC A243 or concurrent enrollment).
Grade Mode: Pass/No Pass.
Special Fees.
- Explores techniques of longitudinal, vertical, and lateral separation of air traffic using lab scenarios designed to develop routine problem solving processes to adapt the student controller to real-life ATC situations.

ATC A325 - Tools for Weather Briefing | 3 CR
Contact Hours: 3 + 0
Prerequisites: ATP A235.
- Covers the operation and assessment of observation from three major weather sensors (Doppler RADAR, Weather Satellites, and Automated Surface Observation System), as well as analysis of weather charts and messages. Focuses on determining the state of the atmosphere, formulating trends, and their cause and effect. Qualifying Air Traffic Control majors may receive Weather Observer Certification upon successful completion of Federal Aviation Administration knowledge exams.

ATA A340 - Terminal Instrument Procedures | 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A272.
- Examines the criteria used to formulate, review, approve, and publish procedures for instrument approach and departure of aircraft to and from civil and military airports.

ATA A430 - Terminal Instrument Procedures | 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A361 and BA A461.
- Emphasizes effective operation and administration of air traffic service (ATS) facilities and conflict resolution between FAA instructions and the terms of a labor union contract. Evaluates current issues and events, and their potential impact on the National Airspace System.

ATP - AVIATION - PROFESSIONAL PILOTING
Offered through the Community & Technical College Aviation Complex, 2811 Merrill Field Drive, 786-7200
www.uaa.alaska.edu/ctc/aviation

ATP A100 - Private Pilot Ground School | 3 CR
Contact Hours: 3 + 0
Special Fees.
- Special Note: Two hours in Flight Training Device required.
- Prepares students for FAA Private Pilot Knowledge Test. Includes basic aerodynamics, aircraft engine operation and flight instruments, navigation, weather information and dissemination services. Covers FAA regulations, the Aeronautical Information Manual, radio communication, and navigation.
### ATP A101 Pre-Professional Flying 2 CR
- **Contact Hours**: 1 + 2
- **Registration Restrictions**: ATP A100 or concurrent enrollment, or passing score on Private Pilot Knowledge Test. Department approval required. FAA Student Pilot/Class II Medical Certificate required.
- **Special Fees**: 
- **Special Note**: Open-entry/Open-exit. Three hours in Flight Training Device required.
- Provides beginning flight instruction for students intending to become professional pilots.

### ATP A104 Flying Alaska Bush 3 CR
- **Contact Hours**: 3 + 0
- **Registration Restrictions**: Private Pilot Certificate or higher rating.
- Provides specialized discussion concerning unique flying conditions faced by Alaskan pilots. Covers basic aerodynamics, mountain flying, skis, floats, wheels, judgment of unimproved landing areas, characteristics of Alaskan weather, external loads, and emergency field maintenance.

### ATP A116 Instrument Ground School 3 CR
- **Contact Hours**: 3 + 0
- **Prerequisites**: ATP A100.
- **Registration Restrictions**: Meet course prerequisite or Private Pilot Certificate. Special Fees.
- **Special Note**: Two hours in Flight Training Device required.
- Provides preparation for FAA Instrument Pilot Knowledge Test. Includes attitude instrument flying, air traffic control and navigation facilities, pilot responsibilities, IFR en route charts, approach plates, airspace and airway route system.

### ATP A126 Instrument Flying 2 CR
- **Contact Hours**: 1 + 2
- **Prerequisites**: ATP A101 and (ATP A116 or concurrent enrollment).
- **Registration Restrictions**: Meet course prerequisite or Instrument Rating. Departmental approval required. Special Fees.
- **Special Note**: Open-entry/Open-exit. Twelve hours in Flight Training Devices required.
- Fulfills FAA flight training requirements for an instrument airplane rating under FAR Part 141.

### ATP A200 Commercial Ground School 3 CR
- **Contact Hours**: 3 + 0
- **Prerequisites**: ATP A116.
- **Registration Restrictions**: Meet course prerequisite or Instrument Rating. Special Note: Two hours in Flight Training Device required.
- Provides preparation for FAA Commercial Pilot Knowledge Test. Includes advanced studies in topics presented in ATP A100 and ATP A116, high performance and complex aircraft, commercial flight maneuvers, and commercial Federal Aviation Regulations.

### ATP A218 Commercial Flying I 1.5 CR
- **Contact Hours**: 1 + 1
- **Prerequisites**: ATP A216 and (ATP A200 or concurrent enrollment).
- **Special Note**: Open-entry/Open-exit.
- Provides flight training to review basic private pilot maneuvers and to introduce the advanced flight maneuvers required of a commercial pilot.

### ATP A219 Commercial Flying II 1.5 CR
- **Contact Hours**: 1 + 1
- **Prerequisites**: ATP A218.
- **Registration Restrictions**: Department approval required. Special Fees.
- **Special Note**: Open-entry/Open-exit.
- Provides flight training to review basic private pilot maneuvers and to introduce the advanced flight maneuvers required of a commercial pilot.

### ATP A220 Commercial Flying III 2 CR
- **Contact Hours**: 1 + 2
- **Prerequisites**: ATP A219.
- **Registration Restrictions**: Department approval required. Concurrent enrollment in ATP A305 is required for BSAT Majors. Special Fees.
- **Special Note**: Open-entry/Open-exit.
- Develops proficiency required to pass the FAA Commercial Pilot Practical Flight Test.

### ATP A231 Search, Survival, and Rescue 3 CR
- **Contact Hours**: 3 + 0
- **Prerequisites**: ATA A233.
- Deals with situations that develop from lost or downed aircraft; survey of principles of survival in all types of climates, with emphasis on Arctic environments. Organization for search and rescue with emphasis on systems and operational methods used in Alaska.

### ATP A232 Advanced Aviation Navigation 3 CR
- **Contact Hours**: 3 + 0
- **Prerequisites**: ATP A100.
- Examines earth’s surface and mapping methods, Low, High, and International en route navigation charts and approach plates; examines advanced technology navigation and flight display systems, and the theory and operation of GPS navigation equipment; looks at future trends in aeronautical navigation.

### ATP A235 Elements of Weather 3 CR
- **Contact Hours**: 3 + 0
- **Prerequisites**: ATM A200.
- **Registration Restrictions**: Meet course prerequisite or Commercial Pilot Certificate. Prepares students for the FAA Certified Flight Instructor Knowledge Tests. Includes principles of teaching and learning, analysis of student motivation, flight training syllabus, and the flight instructor’s role and responsibilities. Covers performance and analysis of flight training maneuvers, advanced aerodynamics, fundamentals of instrument flight, flight training publications, and Federal Aviation Regulations.

### ATP A300 CFI Ground School 3 CR
- **Contact Hours**: 3 + 0
- **Prerequisites**: ATP A200.
- **Registration Restrictions**: Meet course prerequisite or Commercial Pilot Certificate. Fulfills FAA flight training requirements for obtaining a Certified Flight Instructor Certificate under FAR Part 141.

### ATP A301 CFI Flying 2 CR
- **Contact Hours**: 1 + 2
- **Prerequisites**: (ATP A220 or concurrent enrollment).
- **Registration Restrictions**: Must hold a Commercial Pilot Certificate. Department approval required. Special Fees.
- **Special Note**: Open-entry/Open-exit.
- Fulfills FAA flight training requirements for obtaining a Certified Flight Instructor Certificate under FAR Part 141.

### ATP A305 Additional Aircraft Rating 2 CR
- **Contact Hours**: 1 + 2
- **Prerequisites**: (ATP A220 or concurrent enrollment).
- **Registration Restrictions**: Department approval required. Special Fees.
- **Special Note**: Open-entry/Open-exit.
- Provides flight instruction for Professional Piloting students seeking additional ratings on their pilot certificates, e.g. Float, Multi-engine, or Type Rating.

### ATP A312 Transport Aircraft Systems 3 CR
- **Contact Hours**: 3 + 0
- **Prerequisites**: ATP A200.
- Describes and examines the components of transport aircraft systems, their design, performance, capabilities, limitations, interrelationships, and contribution to the operation, safety, efficiency and economy of the aircraft.

### ATP A400 ATP Ground School 3 CR
- **Contact Hours**: 3 + 0
- **Registration Restrictions**: Must hold a Commercial Pilot Certificate and comply with FAR Part 61.159.
- Evaluates the flight environment to justify the Go/No Go decision. Includes TERPS, ATC procedures, and attitude instrument flying. Covers CR series computer, cross-country flight planning, airplane performance, weight and balance, interpreting high-altitude weather charts and forecasts, and applicable FARs.

### ATP A401 ATP Flying 2 CR
- **Contact Hours**: 1 + 2
- **Prerequisites**: (ATP A400 or concurrent enrollment).
- **Registration Restrictions**: Must hold a Commercial Pilot Certificate and comply with FAR Part 61.159. Department approval required. Special Fees.
- **Special Note**: Open-entry/Open-exit.
- Fulfills FAA flight training requirements for obtaining an Airline Transport Pilot Certificate under FAR Part 141.

### ATP A405 Additional CFI Rating 2 CR
- **Contact Hours**: 1 + 2
- **Registration Restrictions**: Certified Flight Instructor Certificate required. Department approval required. Special Fees.
- **Special Note**: Open-entry/Open-exit.
- Provides flight instruction for Professional Piloting students seeking additional ratings on their Flight Instructor Certificate, e.g., Instrument and/or Multi-engine.
BA - BUSINESS ADMINISTRATION

Offered through the College of Business & Public Policy
Edward & Cathryn Rasmuson Hall (RH), Room 309, 786-4100

www.cbpp.uaa.alaska.edu/busadminin.asp

 Students taking any ACCT, BA, CIS, ECON, LGOP, LOG or PADM course will be charged a single lab fee of $25 for the semester. Applies to Elmendorf AFB or Fort Richardson classes only when specifically noted on UAOnline. Does not apply to Chugiak-Eagle River classes.

BA A131  Personal Finance  3 CR
Contact Hours: 3 + 0
Introduction to consumer finance. Surveys topics such as family budgeting, income tax fundamentals, consumer credit, home buying and financing, auto financing, insurance, investment fundamentals, estate planning, and retirement planning.

BA A151  Introduction to Business  3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Social Sciences Requirement.

BA A155  Personal Investments  3 CR
Contact Hours: 3 + 0
An in-depth course on investment of personal income with emphasis on investments, including stocks, bonds, mutual funds, banking, annuities, insurance, real estate, estate planning, and taxes.

BA A166  Small Business Management  3 CR
Contact Hours: 3 + 0
Business planning as key to successful small business management. Examines practical aspects of management for starting and operating a small businesses. Assists students in furthering their understanding of personal finance, business planning, marketing, production, and business finance.

BA A231  Fundamentals of Supervision  3 CR
Contact Hours: 3 + 0
Introduces students to the supervisor’s role in organizations. Emphasizes development of the insights and skills necessary to achieve organizational objectives through others by effectively using the managerial functions of planning, organizing, leading, and controlling. Offers practical experience in decision making in contemporary and relevant situations facing today’s supervisors.

BA A233  Survey of Finance  3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCT A101 or ACCT A201] and MATH A105.
Surveys the discipline of finance. Topics covered are: financial markets, financial institutions, financial statements analysis, time value of money, capital budgeting, and methods of short-term and long-term financing.

BA A241  Business Law I  3 CR
Contact Hours: 3 + 0
Crosslisted with: JUST A241.
Special Note: Offered Fall and Spring Semesters.

BA A242  Business Law II  3 CR
Contact Hours: 3 + 0
Prerequisites: BA A241 or JUST A241.
Crosslisted with: JUST A242.
Special Note: Offered as Demand Warrants.
Emphasizes basic principles, institutions, and administration of law in suretyships, partnerships, corporations, trusts, bankruptcy, negotiable instruments and sale of goods.

BA A260  Marketing Practices  3 CR
Contact Hours: 3 + 0
Prerequisites: BA A151.
Examines the tools, techniques, and principles of marketing and how to apply them. Identifies the significance of connecting with customers. Examines and identifies market factors which create the greatest customer satisfaction possible in the highly competitive environments of the 21st century.

BA A264  Personal Selling  3 CR
Contact Hours: 3 + 0
Designed for people with or without sales experience. Explores skills all individuals use to sell themselves, products, services, and ideas. Offers opportunities for students to practice selling skills that will help them become better communicators throughout life.

BA A273  Introduction to Statistics for Business and Economics  3 CR
Contact Hours: 3 + 0
Prerequisites: CIS A110 and [MATH A107 or MATH A172].
Special Note: Students may apply no more than 3 credits from BA A273 or STAT A252 toward graduation requirements for a baccalaureate degree.
Introduction to statistics and probability with emphasis on the analysis of business and economic data. Includes descriptive statistics for univariate and bivariate data; elementary probability and sampling distributions; estimation of means, proportions, and simple regression coefficients. Students will be introduced to one or more computer packages for statistical data analysis.

BA A295  Internship in Business Administration  3 CR
Contact Hours: 0 + 9
Prerequisites: ENGL A111 and [COMM A111 or COMM A235 or COMM A237 or COMM A241].
Registration Restrictions: Permission of Faculty Internship Coordinator; 2.75 GPA.
MATH A105 or A107 recommended.
Grade Mode: Pass/No Pass.
Special Fees:
Special Note: May be repeated for credit, but only 3 credits will apply to meeting business administration degree requirements.
Integrates classroom study with planned and supervised work experience in the public and private sectors. Students are exposed to occupational work environment beyond the boundaries of the campus, enhancing self-confidence and career direction.

BA A300  Organizational Theory and Behavior  3 CR
Contact Hours: 3 + 0
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Centered on developing a working knowledge of the key theories that deal with human behavior in work settings. Content includes: individual differences, personality, attitudes, perception, attribution, and biases. Also includes the major theories of motivation and leadership, dynamics of group interaction, teams, social processes, diversity, organizational culture, and ethics.

BA A306  Real Estate Principles  3 CR
Contact Hours: 3 + 0
Prerequisites: BA A131.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Surveys all aspects of real estate ownership. Topics covered are: rights and interest in land, forms of ownership, real estate sales contract, mortgages and notes, deeds of trust, sources of financing, and real estate appraisal.

BA A315  Property Management and Marketing  3 CR
Contact Hours: 3 + 0
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Surveys all aspects of property management and marketing. Topics covered are: residential management, shopping center management, office building management, leases, maintenance, landlord-tenant laws, real estate sales, and marketing.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA A320</td>
<td>Real Estate Finance</td>
<td>3 CR</td>
<td>3 + 0</td>
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</tr>
<tr>
<td>BA A325</td>
<td>Corporate Finance</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PRE: ACCT A202 and BA A273 ECON A202</td>
</tr>
<tr>
<td>BA A343</td>
<td>Principles of Marketing</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>BA A361</td>
<td>Human Resource Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PRE: BA A300</td>
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<tr>
<td>BA A375</td>
<td>Statistics for Business Economics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PRE: BA A273 and MATH A272</td>
</tr>
<tr>
<td>BA A377</td>
<td>Operations Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PRE: BA A273 and MATH A272</td>
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<tr>
<td>BA A380</td>
<td>Investment Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PRE: BA A325</td>
</tr>
<tr>
<td>BA A381</td>
<td>Consumer Behavior</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PRE: BA A343</td>
</tr>
</tbody>
</table>

**COURSE DESCRIPTIONS**

**BA A385** Advanced Corporate Finance 3 CR
- Contact Hours: 3 + 0
- Prerequisites: BA A325.
- Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
- Advanced course in corporate finance presenting analytical techniques and concepts. Includes multifactor asset pricing models, free cash flow and corporate valuation, capital budgeting risk analysis and real options, capital structure theory, mergers, and corporate bankruptcies.

**BA A395** Property Management Internship 3 CR
- Contact Hours: 0 + 9
- Registration Restrictions: Permission of faculty internship coordinator
- Grade Mode: Pass/No Pass.
- Special Fees.

**BA A420** Marketing Research 3 CR
- Contact Hours: 3 + 0
- Prerequisites: BA A343 and [BA A375 or ECON A412 or ECON A429].
- Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
- Examines the marketing research function and its role in the managerial decision-making process. Course will include an overview of the marketing research process. Includes conducting primary and secondary data collection, analysis of statistical data, and preparing a written and oral research report.

**BA A426** Financial Institutions 3 CR
- Contact Hours: 3 + 0
- Prerequisites: BA A325.
- Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
- Study of the various types of financial institutions and their operations. Includes commercial banks, savings and loan associations, credit unions, investment companies, pension funds, mutual funds, and endowments.

**BA A427** International Finance 3 CR
- Contact Hours: 3 + 0
- Prerequisites: BA A325.
- Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
- Covers foreign exchange, translation and transaction risks; hedging and speculation; international portfolio diversification and direct foreign investment; international acquisitions; and international taxation.

**BA A431** Real Estate Appraisal 3 CR
- Contact Hours: 3 + 0
- Prerequisites: BA A306.
- Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
- Surveys all aspects of the real estate appraisal. Topics covered are: appraisal process, real estate economics, property inspection, sales comparison approach, cost approach, income approach, reporting appraisal opinion, and the professional appraiser.

**BA A432** Real Estate Law 3 CR
- Contact Hours: 3 + 0
- Prerequisites: BA A241 or JUST A241.
- Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
- Surveys all aspects of the real estate law. Topics covered are: legal system; scope of real property; types of ownership; real estate contracts; title and insurance; financing, closing and taxation; landlord and tenants; and environmental law and regulation.

**BA A447** International Marketing 3 CR
- Contact Hours: 3 + 0
- Prerequisites: BA A343.
- Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
- Emphasizes concepts of marketing strategy used to achieve competitive advantage in the global marketplace. Focuses on market planning, organizing, coordinating, and on the controlling functions of international marketing management.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Registration Restrictions</th>
<th>Special Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA A451</td>
<td>Advanced Investment Strategies</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A380 with minimum grade of C.</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
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<tr>
<td>BA A452</td>
<td>Financial Derivatives</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A325</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
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</tr>
<tr>
<td>BA A453</td>
<td>Bond Market Analysis</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A325</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
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</tr>
<tr>
<td>BA A460</td>
<td>Marketing Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A343</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
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<tr>
<td>BA A461</td>
<td>Negotiation and Conflict Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A343</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
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</tr>
<tr>
<td>BA A462</td>
<td>Strategic Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A273 with minimum grade of C and BA A300 with minimum grade of C and BA A325 with minimum grade of C and BA A343 with minimum grade of C.</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
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<tr>
<td>BA A463</td>
<td>Promotion Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A343</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
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<tr>
<td>BA A488</td>
<td>The Environment of Business</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A300.</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
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<tr>
<td>BA A489</td>
<td>Entrepreneurship and New Business Planning</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A462</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td></td>
</tr>
<tr>
<td>BA A490</td>
<td>International Comparative Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Special Note: Offered as Demand Warrants. Emphasizes differences and similarities between business management concepts and practices across cultures and geographic boundaries. The perspective of a global economy is adopted.</td>
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<tr>
<td>BA A491A</td>
<td>Student Managed Portfolio</td>
<td>3 CR</td>
<td>1 + 4</td>
<td>Prerequisites: BA A380 and (BA A451 or concurrent enrollment).</td>
<td>Registration Restrictions: College of Business and Public Policy majors must be admitted to upper-division standing.</td>
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<tr>
<td>BA A491B</td>
<td>Institutional Money Management</td>
<td>3 CR</td>
<td>1 + 4</td>
<td>Prerequisites: BA A491A</td>
<td>Registration Restrictions: College of Business and Public Policy majors must be admitted to upper-division standing.</td>
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<tr>
<td>BA A495</td>
<td>Advanced Internship in Business Administration</td>
<td>3 CR</td>
<td>0 + 9</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing; Permission of the BA Faculty Internship Coordinator; 2.75 GPA overall; 3.0 GPA in major.</td>
<td>Grade Mode: Pass/No Pass. Special Fees. Special Note: May be repeated more than once for credit, but only 3 credits will apply to meeting business majors’ degree requirements. Integrates classroom study with planned and supervised work experience in the public and private sectors. Students acquire essential practical skills by being exposed to occupational work environment beyond the boundaries of the campus, enhancing self-confidence and career direction. Students are expected to perform duties commensurate with entry-level management positions.</td>
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</tr>
<tr>
<td>BA A601</td>
<td>Business Statistics and Data Analysis</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Registration Restrictions: Graduate Standing. Special Note: Offered Fall Semesters.</td>
<td>Data identification, collection, and analysis and presentation of results. Basic statistical tools and models for problem analysis and decision making are presented in the manager's role in the organization. Emphasis is on the appropriate selection, use and interpretation of statistical models.</td>
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</tr>
<tr>
<td>BA A603</td>
<td>Fundamentals of Finance</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ACCT A601 and BA A601.</td>
<td>Registration Restrictions: Graduate Standing. Special Note: This is a foundational course for MBA students who have not taken any course in finance at the baccalaureate level. Does not count towards MBA degree. Surveys the practice of corporate finance. Topics covered are: financial statements analysis, valuation of securities, capital budgeting, risk and return, cost of capital, capital structure, and working capital management.</td>
<td></td>
</tr>
<tr>
<td>BA A604</td>
<td>Marketing Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Graduate Standing. Special Note: Offered Spring Semesters.</td>
<td>Special Note: This is a foundational course for MBA students who have not taken any course in finance at the baccalaureate level. Does not count towards MBA degree. Surveys the practice of corporate finance. Topics covered are: financial statements analysis, valuation of securities, capital budgeting, risk and return, cost of capital, capital structure, and working capital management.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>BA A615</td>
<td>Real Estate Investment Analysis</td>
<td>3 CR</td>
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</tbody>
</table>
| Contact Hours: 3 + 0  
Prerequisites: BA A603.  
Registration Restrictions: Graduate standing. |
| BA A617     | Technology Management                                  | 3 CR    |
| Contact Hours: 3 + 0  
Registration Restrictions: 9 credits in management and fiscal areas of ESM program, or 9 credits beyond foundation courses in MBA program.  
Crosslisted with: ESM A617.  
Issues and case studies of policy development, strategy, planning and management of technology in the overall corporate environment. |
| BA A619     | Computer Simulation of Systems                         | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: BA A601 or ESM A620.  
Crosslisted with: ESM A619.  
Intensive study of simulation concepts and methods, introduction to major simulation languages. Survey of simulation applications in various disciplines. |
| BA A628     | Executive Leadership                                   | 3 CR    |
| Contact Hours: 3 + 0  
Registration Restrictions: Admission to MBA Program or permission of instructor.  
Exploration of characteristics and practice of executive leadership, primarily through interaction with guest executives. |
| BA A629     | Negotiation and Conflict Management                    | 3 CR    |
| Contact Hours: 3 + 0  
Registration Restrictions: Admission to MBA Program or permission of instructor.  
Designed to present students with opportunity to improve their negotiating skills. It is oriented toward providing a forum conducive to practicing these skills and making positive changes in behavior and habits in order to facilitate their success. |
| BA A631     | Business Environment Analysis                          | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A602.  
Level Restriction: Must be Graduate - UAA level.  
Registration Restrictions: Graduate standing.  
Introduction to the methodology of business environment scanning, analysis, and forecasting; survey of the current business environment. Impacts of globalization of competition and financial markets, technological change, changing political systems, regulation, demographics, social change, and other change factors on business. Examination of social responsibility, ethics, environmental protection and other accountability issues. |
| BA A632     | Organizational Behavior and Human Resource Management  | 3 CR    |
| Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing.  
A detailed interdisciplinary study of those organizational behavior and human resource factors which contribute centrally to the firm's success. Current and future developments regarding key concepts such as motivation, leadership, power and authority, organizational processes and culture, selection and placement, performance appraisal, compensation, and human development will be examined. |
| BA A633     | Problem Formulation and Decision Analysis              | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: BA A601 and ECON A602.  
Registration Restrictions: Graduate standing.  
Identification and formulation of business problems with alternative approaches to modeling and analysis. Students will undertake data collection and utilize appropriate software tools for optimization, forecasting, and simulation of business processes. Focuses on formal quantitative modeling with strong recognition of the behavioral and political contexts of decision making in complex organizations. |
| BA A634     | Organization Design and Development                    | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: BA A632.  
Registration Restrictions: Graduate standing.  
Explores factors, conditions, and practices that lead to creating and maintaining organizational success. Examines alternative methods of determining organizational effectiveness. Presents organizational design based on contingency theory perspective and examines major organizational dilemmas and dysfunctions. Surveys and applies critical tools available for organizational development. |
| BA A635     | Current Marketing Issues Seminar                       | 3 CR    |
| Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing.  
Explores the origin, nature, and ramifications of current issues in marketing that are redefining the role and scope of applied marketing management practices in contemporary organizations. Discusses the major ongoing socio-cultural and technological issues and trends impacting marketing research, competitive strategies, product/service design, pricing, promotion, and distribution. |
| BA A636     | Financial Decision Making                              | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: BA A603.  
Registration Restrictions: Graduate standing.  
Special Fees.  
Advanced course in financial decision making presenting analytical techniques and concepts. Includes multifactor asset pricing models; free cash flow and corporate valuation; capital budgeting risk analysis and real options; working capital management, capital structure theory, mergers, and corporate bankruptcies. |
| BA A645      | Strategic Management Seminar                          | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: BA A632 and BA A635 and BA A636.  
Level Restriction: Must be Graduate - UAA level.  
Registration Restrictions: Graduate standing.  
Role of top management and other stakeholders in setting the organization's fundamental direction. Structure and control system design for strategic support. |
| BA A655     | Management Project                                     | 3 CR    |
| Contact Hours: 3 + 0  
Registration Restrictions: Completion of MBA core courses.  
Management research project designed to integrate policy concepts, research methods, and practical problem solving techniques. |
| BA A656     | Advanced Investment Management                         | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: BA A603.  
Registration Restrictions: Graduate standing.  
Advanced course in investment management covering problems and processes of evaluating stocks. Analyzes performance evaluation using fundamental, technical, and behavioral models. Includes analytical techniques for constructing and evaluating the portfolio's performance. |
## COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BA A686</td>
<td>Management Simulation</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0&lt;br&gt;Registration Restrictions: Graduate standing; completion of undergraduate or graduate course in finance and accounting. Provides the opportunity to gain valuable hands-on experience in running a business as a member of a senior management team. Students define strategies and apply strategic concepts and techniques within a practical decision-making framework. The simulation demonstrates how a firm's production, marketing, R&amp;D, HR, and financial operations interact, and how key decisions impact business performance within a competitive market. Students compete simultaneously with fellow classmates and student teams from universities around the world.</td>
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<tr>
<td>BA A690</td>
<td>Current Topics in Business</td>
<td>1-6 CR</td>
</tr>
<tr>
<td>Contact Hours: 1-6 + 0&lt;br&gt;Registration Restrictions: Faculty permission and graduate standing. Special Note: May be repeated for credit with a change of subtitle. Study of specific current issues, techniques, and trends affecting business.</td>
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<tr>
<td>BA A691</td>
<td>Student Managed Investment</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 1 + 4&lt;br&gt;Prerequisites: (BA A685 or concurrent enrollment). Registration Restrictions: Graduate standing. Includes students' management of investment portfolios and provides opportunities to conduct security analyses and make investment decisions in a realistic environment. The investment objective shall be to outperform the equity market on a risk-adjusted basis as measured by a suitable benchmark.</td>
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<tr>
<td>BA A692</td>
<td>Investment Seminar (Subtitle Varies)</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0&lt;br&gt;Prerequisites: BA A603. Registration Restrictions: Graduate products, analytical techniques for valuing investment securities, and quantifying their exposure to changes in economic conditions, as well as portfolio strategies for achieving an investor's objectives.</td>
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<tr>
<td>BA A695</td>
<td>Graduate Internship</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0&lt;br&gt;Registration Restrictions: Graduate standing; completion of MBA core courses Integrates classroom knowledge with supervised work experience.</td>
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<tr>
<td>BA A698</td>
<td>Individual Research</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0&lt;br&gt;Registration Restrictions: Graduate standing; completion of MBA core courses Independent primary research project conducted under the supervision of a faculty advisor.</td>
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<tr>
<td>BA A699</td>
<td>Thesis</td>
<td>3/6 CR</td>
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<tr>
<td>Contact Hours: 3 or 6 + 0&lt;br&gt;Registration Restrictions: Graduate standing; completion of MBA core courses. Independent research project conducted under supervision of a thesis advisor and committee, culminating in a formal thesis and oral defense.</td>
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### BIOL - BIOLOGICAL SCIENCES

Offered through the College of Arts and Sciences<br>ConocoPhillips Integrated Sciences Building (CPSB), Room 101, 786-4770<br>1001  W. Bear Street, Anchorage, AK 99508-1800<br>The WWAMI/Biomedical program may be found at http://biomed.uaa.alaska.edu

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL A074</td>
<td>Field Natural History</td>
<td>1-3 CR</td>
</tr>
<tr>
<td>Contact Hours: 0 + 3-9&lt;br&gt;Grade Mode: Pass/No Pass.&lt;br&gt;Special Note: Field trips in any weather; walking through rough terrain is routine. May have overnight field trips. May be repeated for credit with a change of subtitle. Check schedules for specific offerings. A short course on field natural history. Covers major plant and animal species of area. Experience gained in location and identification. May include extensive hiking and camping.</td>
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<tr>
<td>BIOL A075</td>
<td>Local Flora</td>
<td>1 CR</td>
</tr>
<tr>
<td>Contact Hours: 0 + 3&lt;br&gt;Grade Mode: Pass/No Pass.&lt;br&gt;Special Note: May include preparation of pressed plant specimens and field trips. Study of wild flowers and plants in the surrounding locale with emphasis on use and identification.</td>
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<tr>
<td>BIOL A100</td>
<td>Human Biology</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0&lt;br&gt;Special Note: Primarily for non-science majors. Not accepted for GER or biology major baccalaureate credit. Survey of biological principles as applied to human anatomy, physiology, and genetics.</td>
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<tr>
<td>BIOL A102</td>
<td>Introductory Biology</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0&lt;br&gt;Course Attributes: UAA GER Natural Sciences Requirement. Special Note: Primarily for non-science majors. Satisfies CAS B.S. degree requirements. Selected introductory biological concepts including the chemical basis of life, cell structure, energetics, physiology, genetics, biotechnology, evolution, ecology and scientific methodology. This course will provide the non-biologist with a working knowledge of life science that will be useful in making informed decisions on health and the environment.</td>
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<tr>
<td>BIOL A103</td>
<td>Introductory Biology Laboratory</td>
<td>1 CR</td>
</tr>
<tr>
<td>Contact Hours: 0 + 3&lt;br&gt;Prerequisites: (BIOL A102 or concurrent enrollment). Course Attributes: UAA GER Natural Sciences Lab Only. Special Fees. Special Note: Primarily for non-science majors. Satisfies CAS B.S. degree requirements. Selected introductory biological concepts including the chemical basis of life, cell structure, energetics, physiology, genetics, biotechnology, evolution, ecology and scientific methodology. This course will provide the non-biologist with a working knowledge of life science that will be useful in making informed decisions on health and the environment. Laboratory supplement of BIOL A102. Exercises are designed to illustrate principles and concepts developed in BIOL A102.</td>
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<tr>
<td>BIOL A104</td>
<td>Natural History of Alaska</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0&lt;br&gt;Crosslisted with: GEOL A104. Special Note: Acceptable as elective credit only. Surveys important biological, physical and geological features of Alaska, and their development over time. Includes study of major landforms, ecosystems, wildlife and people. Local area will be emphasized.</td>
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<tr>
<td>BIOL A111</td>
<td>Human Anatomy and Physiology I</td>
<td>4 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 3&lt;br&gt;Corequisite: BIOL A111L. May be stacked with: BIOL A113. Course Attributes: UAA GER Natural Science w/ Lab. Special Note: Does not apply for Biology major credit. Satisfies CAS B.S. requirements. One 3-hour lab per week. An introduction to human structure and function. The integumentary, skeletal, muscular, nervous and endocrine systems are considered.</td>
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<tr>
<td>BIOL A112</td>
<td>Human Anatomy and Physiology II</td>
<td>4 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 3&lt;br&gt;Corequisites: BIOL A111. BIOL A112L. May be stacked with: BIOL A114. Course Attributes: UAA GER Natural Science w/ Lab. Special Note: Does not apply for Biology major credit. Satisfies CAS B.S. requirements. One 3-hour lab per week. A continuation of BIOL A111. The circulatory, lymphatic, immune, respiratory, digestive, urinary and reproductive systems are considered.</td>
<td></td>
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</tr>
<tr>
<td>BIOL A113</td>
<td>Lectures in Human Anatomy and Physiology I</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0&lt;br&gt;Registration Restrictions: Current Alaska registered nurse license and permission of both the Associate Dean of Nursing and the course instructor. May be stacked with: BIOL A111. BIOL A113 is the lecture portion of BIOL A111 without the laboratory.</td>
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<tr>
<td>BIOL A114</td>
<td>Lectures in Human Anatomy and Physiology II</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0&lt;br&gt;Prerequisites: BIOL A111 or BIOL A113. Registration Restrictions: Current Alaska registered nurse license and permission of both the Associate Dean of Nursing and the course instructor. May be stacked with: BIOL A112. A continuation of BIOL A113. BIOL A114 is the lecture portion of BIOL A112 without the laboratory.</td>
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</tbody>
</table>
**BIOL A115**  
**Fundamentals of Biology I**  
4 CR  
Contact Hours: 3 + 3  
Prerequisites: (CHEM A105 or concurrent enrollment) and (CHEM A105L or concurrent enrollment).  
Registration Restrictions: One year of high school biology, one year of high school chemistry, and working knowledge of the metric system.  
Corequisite: BIOL A118L.  
Course Attributes: UAA GER Natural Science w/Lab.  
Special Note: May be stacked with BIOL A240L.  

**BIOL A116**  
**Fundamentals of Biology II**  
4 CR  
Contact Hours: 3 + 3  
Prerequisites: BIOL A115 and CHEM A105 and CHEM A105L and (CHEM A106 or concurrent enrollment) and (CHEM A106L or concurrent enrollment).  
Corequisite: BIOL A116L.  
Course Attributes: UAA GER Natural Science w/Lab.  
Special Note: May be repeated once for a maximum of 6 credits.  

**BIOL A124**  
**Biota of Alaska: Selected Topics**  
1-4 CR  
Contact Hours: 1-4 + 0  
Special Fees.  
Special Note: Community service course.  
Explores special features of birds, mammals, insects or plants. Can include life history, habitat, ecology and behavior.  

**BIOL A126**  
**Birds in Field and Laboratory**  
2 CR  
Contact Hours: 1 + 3  
Special Note: Community service course.  
Field trips, study projects, lectures and laboratories form a beginning course in bird study. General biology, ecology and behavior of birds. Emphasis on characteristics, observation, and recording information about birds in Alaska and other areas.  

**BIOL A141**  
**Introduction to Medicine and the Health Professions**  
4 CR  
Contact Hours: 3 + 3  
Registration Restrictions: Admission to the Alaska WWAMI biomedical program's Della Keats/UdooC program.  
Provides students with skills to succeed at college and proceed into medicine, nursing or another health profession. Includes modules in oral communication, written communication, medical terminology, how to succeed in college, biomedical ethics, microbiology, genetics, anatomy and physiology. Supplemented with guest lectures by medical faculty, nursing faculty and other health professionals, tours of medical and teaching facilities, and job-shadowing of doctors, nurses and other health professionals.  

**BIOL A178**  
**Fundamentals of Oceanography**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Placement into MATH A105 or higher.  
Crosslisted with: GEOL A178.  
Course Attributes: UAA GER Natural Sciences Requirement.  
Principles of oceanography, with emphasis on the ocean's biological, physical, chemical, and geological processes, and how ocean processes affect the atmosphere.  

**BIOL A179**  
**Fundamentals of Oceanography Laboratory**  
1 CR  
Contact Hours: 0 + 3  
Registration Restrictions: Placement into MATH A105 or higher.  
Crosslisted with: GEOL A179.  
Course Attributes: UAA GER Natural Sciences Lab Only.  
Special Fees.  
Laboratory exercises designed to illustrate principles and concepts developed in BIOL A178/GEOL A178.  

**BIOL A198**  
**Individual Research**  
1-6 CR  
Contact Hours: 0 + 3-18  
Registration Restrictions: Faculty permission required.  
Special Note: May be repeated once for a maximum of 6 credits.  
Lab and field investigations on specific subjects in biology. Topic for study to be approved and directed by a faculty member in biological sciences.  

**BIOL A200**  
**Introduction to Complexity**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: MATH A107 or MATH A172.  
Crosslisted with: CPLX A200.  
Course Attributes: UAA GER Natural Sciences Requirement.  
An introduction to the science of complexity, currently used to predict system behavior in the physical, life, and social sciences.  

**BIOL A240**  
**Introductory Microbiology for Health Sciences**  
4 CR  
Contact Hours: 3 + 3  
Registration Restrictions: Concurrent enrollment in BIOL A112 or 8 hours in biology or chemistry.  
Corequisite: BIOL A240L.  
Special Note: Recommended for associate and baccalaureate health science programs.  
Laboratory exercises generally require students to return to the lab to record experimental results after 24 hours throughout the semester. Not accepted for Biology degree credit. Students must attend lab the first week of class or they may be administratively dropped.  
General introductory microbiology covering bacterial metabolism and genetics, virology, host parasite interactions, host defense mechanisms and epidemiology.  

**BIOL A241**  
**Lectures in Introductory Microbiology for Health Sciences**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: 8 hours in biology or chemistry or concurrent enrollment in BIOL A112.  
May be stacked with BIOL A240.  
Special Note: BIOL A241 is the lecture part of BIOL A240 only; it does not have a lab session. Recommended for students who have previously received credit for a microbiology course and who need to update their understanding of health science-related microbiology and for associate and baccalaureate health science programs. Not open to students who have completed BIOL A240 or BIOL A340 during the previous five years. Not accepted for Biology degree credit.  
Lectures in introductory microbiology covering metabolism and genetics, virology, host parasite interactions, host defense mechanisms and epidemiology.  

**BIOL A242**  
**Fundamentals of Cell Biology**  
4 CR  
Contact Hours: 3 + 3  
Prerequisites: BIOL A115 and CHEM A105 and CHEM A105L.  
Corequisite: BIOL A242L.  
Special Note: Core course for Biology majors. One 3-hour lab per week. Students must attend lab the first week of class or they may be administratively dropped.  
Examination of the structure, including ultrastructure, and function of cells. Isolation, composition, and biochemical properties of cell components.  

**BIOL A252**  
**Principles of Genetics**  
4 CR  
Contact Hours: 3 + 3  
Prerequisites: BIOL A115 and CHEM A105 and CHEM A105L.  
Corequisite: BIOL A252L.  
Special Note: Core course for biology majors. One 3-hour lab per week. Students must attend lab the first week of class or they may be administratively dropped.  
Principles of inheritance in prokaryotes and eukaryotes and physiochemical properties of genetic systems.  

**BIOL A271**  
**Principles of Ecology**  
4 CR  
Contact Hours: 3 + 3  
Prerequisites: BIOL A252 and [STAT A253 or STAT A307].  
Corequisite: BIOL A271L.  
Special Note: Core course for biology majors. One 3-hour lab per week. Includes field trips. Students must attend lab the first week of class or they may be dropped.  
Basic principles in physiological, ecosystem, population and community ecology, including environmental factors and their influence on living organisms and their structure; population growth, regulation, and interactions; the nature and diversity of biological communities in the context of evolution; and ecosystem structure and function and human impacts on the global system.  

**BIOL A292**  
**Plant Lore of Kachemak Bay**  
1 CR  
Contact Hours: 1 + 0  
Grade Mode: Pass/No Pass.  
Offered only at Kachemak Bay Campus.  
Identification of plants in biotic systems ranging from spruce/hardwood forests and marine areas to bogs. Emphasis on traditional medicinal plants of Native and non-Native cultures.  

**BIOL A298**  
**Individual Research**  
1-6 CR  
Contact Hours: 0 + 3-18  
Prerequisites: BIOL A116.  
Registration Restrictions: Faculty permission required.  
Special Note: May be repeated once for a maximum of 6 credits.  
Lab and field investigations on specific subjects in biology. Topic for study to be approved and directed by a faculty member in biological sciences.  

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<table>
<thead>
<tr>
<th><strong>BIOL A308</strong></th>
<th>Principles of Evolution</th>
<th>3 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: BIOL A271.</td>
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<tr>
<td>Special Note: Core course for biology majors.</td>
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<tr>
<td>An introduction to the basic principles and mechanisms of the evolution of living systems, with emphasis on the evidence supporting modern understanding of the patterns and processes associated with individual and population variability, transmission of genetic information, lineage diversification and biological change.</td>
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<thead>
<tr>
<th><strong>BIOL A309</strong></th>
<th>Biogeography</th>
<th>3 CR</th>
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<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: BIOL A308.</td>
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<tr>
<td>Ecological basis and historical patterns of the distribution of plants and animals on a worldwide basis. Current theories regarding the origin of these distributions are examined.</td>
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<thead>
<tr>
<th><strong>BIOL A310</strong></th>
<th>Principles of Physiology</th>
<th>4 CR</th>
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<tbody>
<tr>
<td>Contact Hours: 3 + 3</td>
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<td></td>
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<tr>
<td>Prerequisites: BIOL A242.</td>
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<tr>
<td>Special Note: Satisfies physiology core curriculum requirement for biology majors.</td>
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<tr>
<td>This course emphasizes the fundamental principles of cellular and system physiology of animals with emphasis on vertebrate and, in particular, human physiology.</td>
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<thead>
<tr>
<th><strong>BIOL A316</strong></th>
<th>Introduction to Plant Physiology</th>
<th>3 CR</th>
</tr>
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<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: BIOL A242.</td>
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<td></td>
</tr>
<tr>
<td>Special Note: Satisfies physiology core curriculum requirement for biology majors.</td>
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<tr>
<td>Physiology of vascular plants, including growth, development, water relations, photosynthesis, material transport, and metabolism.</td>
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<tr>
<th><strong>BIOL A327</strong></th>
<th>Parasitology</th>
<th>4 CR</th>
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<tbody>
<tr>
<td>Contact Hours: 3 + 3</td>
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<tr>
<td>Prerequisites: BIOL A116 and CHEM A106 and CHEM A106L.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>The life history and ecology of parasites of medical significance and economic importance, including diagnosis and control. Emphasis on North American parasites.</td>
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<thead>
<tr>
<th><strong>BIOL A331</strong></th>
<th>Systematic Botany</th>
<th>4 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hours: 3 + 3</td>
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<td></td>
</tr>
<tr>
<td>Prerequisites: BIOL A116.</td>
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<td></td>
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<tr>
<td>Special Note: Saturday field trips. Offered alternate years.</td>
<td></td>
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<tr>
<td>Identification and classification of vascular plants with an emphasis on circumpolar flora; discussion of taxonomic principles and both classical and experimental methods of taxonomic research.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BIOL A333</strong></th>
<th>Biology of Non-Vascular Plants</th>
<th>4 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hours: 3 + 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: BIOL A116.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Fees.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Note: Offered alternate fall semesters.</td>
<td></td>
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</tr>
<tr>
<td>Comparative study of structure, development, phylogenetic trends, and life histories of the major groups of algae, fungi and bryophytes.</td>
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<thead>
<tr>
<th><strong>BIOL A334</strong></th>
<th>Biology of Vascular Plants</th>
<th>4 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hours: 3 + 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: BIOL A333.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corequisite: BIOL A334L.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study of morphology, anatomy, ecology, and evolution of the major groups of vascular plants and the study of the relationship of humans to vascular plants.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BIOL A340</strong></th>
<th>General Microbiology</th>
<th>5 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hours: 3 + 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: BIOL A242 and BIOL A252.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration Restrictions: 8 additional biology credits.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corequisite: BIOL A340L.</td>
<td></td>
<td></td>
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<tr>
<td>Special Note: Some additional laboratory work will be required to complete laboratory experiments.</td>
<td></td>
<td></td>
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<tr>
<td>Special Note: Offered Spring semesters.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology of prokaryotic and eukaryotic microorganisms and viruses, their relationships to other organisms, and to the ecosystem.</td>
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<table>
<thead>
<tr>
<th><strong>BIOL A373</strong></th>
<th>Conservation Biology</th>
<th>3 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: BIOL A271.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Note: A service-learning course and includes field work outside of class time.</td>
<td></td>
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</tr>
<tr>
<td>Review of the human drivers of global environmental change (human population growth and consumption of resources), resulting environmental degradation, and tools to slow down or reverse environmental damage.</td>
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<thead>
<tr>
<th><strong>BIOL A378</strong></th>
<th>Marine Biology</th>
<th>3 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: BIOL A271 or ENVI A202.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class Standing Restriction: Must be Junior.</td>
<td></td>
<td></td>
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<tr>
<td>Registration Restrictions: Junior standing; completion of all GER Tier 1 courses (basic college-level skills) is required for GER Tier 3 credit.</td>
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<tr>
<td>Course Attributes: UAA GER Integrative Capstone.</td>
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<tr>
<td>An introduction to the marine habit, with a focus on understanding the biological basis behind modern conservation and management issues, particularly in Alaska. The ocean as physical habitat, marine food webs and trophic dynamics, coastal, benthic, and pelagic ecosystem structure, and changes in physical and biological systems due to human impacts and climate regimes.</td>
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<table>
<thead>
<tr>
<th><strong>BIOL A403</strong></th>
<th>Microtechnique</th>
<th>4 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hours: 2 + 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: BIOL A242.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration Restrictions: 8 additional credits in biology; and faculty permission.</td>
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<tr>
<td>Demonstration and use of tissue techniques including procurement, preservation embedding, sectioning, staining, microscopy, photography, and illustration.</td>
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<thead>
<tr>
<th><strong>BIOL A415</strong></th>
<th>Comparative Animal Physiology</th>
<th>3 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: BIOL A310 or BIOL A310.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>May be stacked with: BIOL A615.</td>
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<tr>
<td>Special Note: Students who complete BIOL A415 as part of their undergraduate degree cannot receive credit towards their graduate degree from BIOL A615.</td>
<td></td>
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</tr>
<tr>
<td>An examination of the physiological adaptations of marine, freshwater, and terrestrial organisms. The comparative approach will be used in order to better understand how animals are uniquely adapted to their physical environment.</td>
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<table>
<thead>
<tr>
<th><strong>BIOL A423</strong></th>
<th>Ichthyology</th>
<th>4 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hours: 3 + 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: BIOL A252.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corequisite: BIOL A423L.</td>
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<tr>
<td>Special Fees.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Note: Includes field trips.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major groups of fishes, emphasizing the fishes of northwestern North America. Classification, structure, evolution, ecology, general biology and importance to humans of the major groups.</td>
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</tbody>
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<table>
<thead>
<tr>
<th><strong>BIOL A425</strong></th>
<th>Mammalogy</th>
<th>4 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hours: 3 + 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: BIOL A252.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corequisite: BIOL A425L.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Note: Includes field trips.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Survey of the class Mammalia, emphasizing systematics, morphology, physiology, ecology, evolution, behavior, and conservation.</td>
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<table>
<thead>
<tr>
<th><strong>BIOL A426</strong></th>
<th>Ornithology</th>
<th>4 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hours: 3 + 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: BIOL A271.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corequisite: BIOL A426L.</td>
<td></td>
<td></td>
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<tr>
<td>Special Fees.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Note: Includes field trips.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Survey of the class Aves (birds), emphasizing systematics, morphology, physiology, ecology, evolution, behavior and conservation.</td>
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<table>
<thead>
<tr>
<th><strong>BIOL A427</strong></th>
<th>Invertebrate Zoology</th>
<th>4 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hours: 3 + 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: BIOL A252.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corequisite: BIOL A427L.</td>
<td></td>
<td></td>
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<tr>
<td>Special Fees.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Note: Includes field trips.</td>
<td></td>
<td></td>
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<tr>
<td>Functional anatomy and evolutionary adaptations of invertebrate animals.</td>
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<table>
<thead>
<tr>
<th><strong>BIOL A430</strong></th>
<th>Marine Mammal Biology</th>
<th>4 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hours: 3 + 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: BIOL A271.</td>
<td></td>
<td></td>
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<tr>
<td>Corequisite: BIOL A430L.</td>
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<tr>
<td>May be stacked with: BIOL A630.</td>
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<tr>
<td>Special Fees.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Note: Students who completed BIOL A430 as part of their undergraduate degree cannot receive credit towards their graduate degree BIOL A630.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>An introduction to the biology and ecology of marine mammals, with an emphasis on understanding how marine mammals are adapted to their habitat, and the roles that they play in the marine ecosystem.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
BIOL A441 Animal Behavior 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A271 and [STAT A253 or STAT A307].
Special Fees.
- Review of the ecological, evolutionary, physiology, and genetic basis of animal behavior. Research methods in lab.

BIOL A445 Plant-Herbivore Ecology 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A271.
Corequisite: BIOL A445.
May be stacked with: BIOL A645.
- Examination of the evolution of vascular plants and the coevolution of their herbivores. Exploration of the concepts of nutritional ecology of herbivores and the implications of these concepts to management of animal populations and their habitats. Topics include the evolution of plants and herbivores, the nutrition of herbivores, plant morphology and chemistry relative to herbivores, spatial and temporal dynamics of food resources, body size scaling and nutritional allometrics, forage selection and herbivore management. The course emphasizes arctic and boreal herbivores and their habitats.

BIOL A450 Microbial Ecology 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A340.
May be stacked with: BIOL A650.
- Exploration of the diversity of the microbial world; microbial population and community ecology, the role of microorganisms in the cycling of elements in soils, lakes, and oceans; bacterial consumption and production of trace gases; geomicrobiology; symbioses.

BIOL A451 Applied Microbiology 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A340.
May be stacked with: BIOL A651.
- Biotechnology and the use of microorganisms in the development of pharmaceuticals. Microbially based foods and beverages, bio-insecticides, bio remediation.

BIOL A452 Human Genome 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A205 or BIOL A252 or PSY A370.
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and junior standing.
Course Attributes: UAA GER Integrative Capstone.
Special Note: Normally offered in alternate fall semesters.
- An in-depth exploration of the human genome with emphasis on social aspects. Topics will include the Human Genome Project, genome database searching, human chromosome and gene structure, developmental genetics, genetics of normal human traits, hereditary diseases, genetic screening and ethical issues, and genomic evidence of human evolution and migrations.

BIOL A456 Nonlinear Dynamics and Chaos 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202 with minimum grade of C and [PHYS A124 with minimum grade of C or PHYS A212 with minimum grade of C].
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and junior standing.
Corequisite: CHEM A456 and PHYS A456.
Course Attributes: UAA GER Integrative Capstone.
- An introduction to nonlinear dynamics and chaos. Concrete examples from physics, biology, chemistry, and engineering are used to develop analytical methods and geometric intuition. Topics covered include phase plane analysis, iterated maps, fractals, and strange attractors.

BIOL A461 Molecular Biology 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A252.
May be stacked with: BIOL A661.
- Study of molecular biology, with emphasis on molecular genetics and the molecular biology of eukaryotic cells and cancer cells, including current developments in the field.

BIOL A461L Molecular Biology Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: BIOL A252 and (BIOL A461 with minimum grade of C or concurrent enrollment).
Special Fees.
- A practical implementation of the theory learned in BIOL A461, which includes recombinant DNA techniques, gene expression/detection, and mutagenesis.

BIOL A462 Virology 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A340.
May be stacked with: BIOL A662.
- An in-depth examination of virus structure, gene expression, and replication, using selected bacterial, plant, and animal viruses; response of host cells to infection; control of virus replication via chemotherapeutic agents; and virus evolution. An understanding of cell biology is required.

BIOL A471 Immunochemistry 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A340 and CHEM A321.
Crosslisted with: CHEM A471.
Special Fees.
- A study of the immune response including the biochemistry of antibodies, cellular and molecular events triggered by antigenic stimulation, regulation, immunopathology, transplantation, cancer and immunological techniques.

BIOL A477 Tundra and Taiga Ecosystems 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A271.
May be stacked with: BIOL A677.
- Analysis of tundra and taiga ecosystems with emphasis on system functions and dynamics. Comparisons with other terrestrial systems will be made and unique characteristics will be emphasized.

BIOL A478 Biological Oceanography 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A378.
Special Fees.
- Principles of biological oceanography with an emphasis on identification and description of water masses and biological, chemical, and physical processes in the world's oceans. Systematics, water masses, nutrient dynamics, characteristic ecological communities, and benthic pelagic coupling. Use of laboratory methods and analyses will complement field studies.

BIOL A479 Physiological Plant Ecology 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A271 and BIOL A316.
May be stacked with: BIOL A679.
- Analysis of interactions between plants and their environment. Deals with acquisition of resources, both energy and matter. Radiation interception and energy dissipation will be analyzed using energy balance equations. The nature of low and high temperature stress and adaptations to deal with these will be described.

BIOL A487 Comparative Anatomy of Vertebrates 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A252.
Corequisite: BIOL A487L.
Special Fees.
- Functional anatomy, ecology, and evolution of chordates.

BIOL A488 Developmental Biology 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A252.
Special Fees.
- A study of the molecular and cellular principles which underlie the development of tissues and organ systems in animals, including classical embryology.

BIOL A489 Population Genetics and Evolutionary Processes 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A252 with minimum grade of C or BIOL A308 with minimum grade of C.
Registration Restrictions: Senior standing; fulfillment of GER Tier 1 and 2 requirements.
Course Attributes: UAA GER Integrative Capstone.
- A comprehensive examination of the primary forces and processes involved in shaping genetic variation in natural populations (mutation, drift, selection, migration, recombination, mating patterns, population size and population subdivision), methods of measuring genetic variation in nature, and experimental tests of important ideas in population genetics.

BIOL A490 Selected Lecture Topics in Biology 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: 16 credits in biology.
May be stacked with: BIOL A690.
Special Note: See schedules for specific subtitles to be offered. With changes in subtitles, course may be repeated for credit although prerequisites and corequisites may vary with topic.
- Detailed coverage of a selected lecture topic in biology.
BIOI A490L  Selected Laboratory Topics in Biology  1-3 CR  
Contact Hours: 0 + 3-9  
Registration Restrictions: 16 credits in biology.  
May be stacked with: BIOI A690L.  
Special Fees.  
Special Note: See schedules for specific subtopics to be offered. With changes in subtopics, course may be repeated for credit although prerequisites and corequisites may vary with topic.  
Detailed coverage of a selected laboratory topic in biology.

BIOI A492  Undergraduate Seminar  1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: Junior or senior standing.  
Special Fees.  
Special Note: May be repeated once for credit.  
The exploration of current and emerging ideas and findings across the biological sciences, with an emphasis on critique of the primary literature. The course will use readings from the primary literature to illustrate scientific methods, experimental design, and applied statistics in biology. The course will also build and refine student’s scientific writing skills, and sharpen analytical thinking and scientific creativity.

BIOI A495  Instructional Practicum: Laboratory  1 CR  
Contact Hours: 0 + 3  
Class Standing Restriction: Must be Senior.  
Registration Restrictions: Minimum of 20 credits in biology.  
Special Note: May be repeated once for credit.  
Supervised practical experience in one 3-hour biology laboratory section. Planning, presentation of material, achievement testing and correlation with lecture under the direct supervision of department faculty.

BIOI A495A  Internship in the Biological Sciences  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Junior standing with a minimum of 12 credits in biology courses and faculty permission.  
Special Note: May be taken more than once, but only three credits may be applied to elective upper division credit requirements for the baccalaureate degree in any of the BA or BS degrees offered by the Department of Biological Sciences.  
Professional work experience in appropriate areas of the biological sciences. Open to qualified students receiving faculty recommendation, and as placements are available.

BIOI A498  Individual Research  1-6 CR  
Contact Hours: 0 + 3-18  
Prerequisites: BIOL A252.  
Registration Restrictions: Faculty permission required.  
Special Fees.  
Special Note: May be repeated for a maximum of 6 credits.  
Lab and field investigations on specific subjects in biology. Topic for study to be approved and directed by a faculty member in biological sciences.

BIOI A499  Senior Thesis  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission required; Senior status in Biology.  
Special Note: Required for Departmental Honors in Biology.  
Independent or collaborative research under faculty supervision. Culminates in a document prepared to publication standards. Presentation in a science forum is encouraged.

BIOI A601  Advanced Experimental Design and Biostatistics  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing.  
Special Note: Graduate students in the Department of Biological Sciences are strongly encouraged to take this course during their first year of study.  
Advanced exploration of the concepts of experimental design and biostatistics and their application in the development and assessment of biological research. Students directly apply the course content to the development of their own graduate research proposals as part of the course.

BIOI A603  Ecological Genetics and Quantitative Microevolution Theory  3 CR  
Contact Hours: 3 + 0  
Prerequisites: BIOL A308 or BIOL A389.  
Registration Restrictions: Graduate standing.  
An advanced and in-depth examination of the primary forces and processes involved in shaping genetic variation in natural populations (mutation, drift, selection, migration, recombination, mating patterns, population size and population subdivision), methods of measuring genetic variation in nature, and experimental tests of important ideas in population genetics and microevolution theory.
### BIOL A630 Advanced Marine Mammal Biology 4 CR
- **Contact Hours:** 4 + 0
- **Registration Restrictions:** Graduate Standing.
- **Corequisite:** BIOL A430R.
- **Special Note:** Students who completed BIOL A430 as part of their undergraduate degree cannot receive credit towards their graduate degree from BIOL A630.

Advanced study of the biology and ecology of marine mammals, with an emphasis on understanding how marine mammals are adapted to their habitat, and the roles that they play in the aquatic ecosystem. In addition to meeting all requirements for BIOL A430, graduate students will be required to participate in a weekly discussion of primary literature, lead one discussion, and prepare a research proposal that addresses a current topic in marine mammal biology, and to orally present and defend that research proposal to the class.

### BIOL A631 Gross Anatomy II 4 CR
- **(Head, Neck, Ear, Nose, and Throat)**
- **Contact Hours:** 3 + 3
- **Level Restriiction:** Must be Graduate - UAA level.
- **Registration Restrictions:** Admission to graduate program in Biology, and approval of WWAMI Biomedical Program Director and Faculty.
- Crosslisted with: BIOM A631.

Gross anatomy of the skull, larynx, and pharynx. Also covers: audition and balance; physiology; clinical evaluation; maxillo-facial disorders; diseases of nasal passages; naso-and oropharynx; accessory sinuses; and physical examination.

### BIOL A632 Nervous System 5 CR
- **Contact Hours:** 4 + 3
- **Level Restriiction:** Must be Graduate - UAA level.
- **Registration Restrictions:** Admission to graduate program in Biology, and approval of WWAMI Biomedical Program Director and Faculty.
- Crosslisted with: BIOM A632.

Integrated approach to the normal structure and function of the nervous system, including the eye. Neuropathological examples are presented as well as clinical manifestations of neurological disease.

### BIOL A634 Microbiology and Infectious Disease II 3 CR
- **Contact Hours:** 3 + 0
- **Level Restriiction:** Must be Graduate - UAA level.
- **Registration Restrictions:** Admission to graduate program in Biology, and approval of WWAMI Biomedical Program Director and Faculty.
- Crosslisted with: BIOM A634.

Continuation of BIOL A621.

### BIOL A645 Advanced Plant-Herbivore Ecology 4 CR
- **Contact Hours:** 3 + 3
- **Prerequisites:** BIOL A271 and BIOL A308.
- **Level Restriiction:** Must be Graduate - UAA level.
- **Registration Restrictions:** Graduate standing.
- **Corequisite:** BIOL A645L.
- **Special Fees:**
- **Special Note:** In addition to meeting all requirements for BIOL A445, graduate students will be required to research the literature on a current topic in plant-herbivore ecology, submit an extensive paper summarizing their findings including designs for future experiments on the subject, and give a seminar on the same topic. Not available for credit to students who have completed BIOL A445.

Advanced study of the evolution of vascular plants and the coevolution of their herbivores. Exploration of advanced concepts of nutritional ecology of herbivores and the implications of these concepts to management of animal populations and their habitats. Topics include the evolution of plants and herbivores, the nutrition of herbivores, plant morphology and chemistry relative to herbivores, spatial and temporal dynamics of food resources, body size scaling and nutritional allometrics, forage selection and herbivore management.

### BIOL A650 Advanced Microbial Ecology 3 CR
- **Contact Hours:** 3 + 0
- **Prerequisites:** BIOL A340.
- **Level Restriiction:** Must be Graduate - UAA level.
- **Registration Restrictions:** Graduate standing.
- **May be stacked with:** BIOL A450.
- **Special Note:** In addition to meeting all requirements for BIOL A450, graduate students will be required to write a detailed research proposal in microbial ecology. Not available for credit to students who have completed BIOL A450.

Advanced exploration of the diversity of the microbial world; microbial population and community ecology, the role of microorganisms in the cycling of elements in soils, lakes, and oceans; bacterial consumption and production of trace gases; geomicrobiology; symbioses.

### BIOL A651 Advanced Applied Microbiology 3 CR
- **Contact Hours:** 3 + 0
- **Prerequisites:** BIOL A340.
- **Level Restriction:** Must be Graduate - UAA level.
- **Registration Restrictions:** Graduate standing.
- **May be stacked with:** BIOL A451.
- **Special Note:** In addition to meeting all requirements for BIOL A451, graduate students will be required to research the literature on a current topic in applied microbiology, submit an extensive paper summarizing their findings including designs for future experiments on the subject, and give a seminar on the same topic. Not available for credit to students who have completed BIOL A451.

Advanced study of biotechnology and the use of microorganisms in the development of pharmaceuticals. Microbiobased foods and beverages, bioinsecticides, bioremediation.

### BIOL A653 Gross Anatomy III: Musculoskeletal System 3 CR
- **Contact Hours:** 2 + 3
- **Level Restriction:** Must be Graduate - UAA level.
- **Registration Restrictions:** Admission to graduate program in Biology, and approval of WWAMI Biomedical Program Director and Faculty.
- Crosslisted with: BIOM A653.

Gross, surface, applied and X-ray anatomy of musculoskeletal system including the spine, but excluding head and neck. Also covers histology of bone, cartilage, tendon-mytendinous junction and joints; musculoskeletal trauma and healing; pathology and clinical manifestations of other degenerative, inflammatory, metabolic, nutritional and congenital disorders; and physical examinations.

### BIOL A661 Advanced Molecular Biology 3 CR
- **Contact Hours:** 3 + 0
- **Prerequisites:** BIOL A252.
- **Level Restriction:** Must be Graduate - UAA level.
- **Registration Restrictions:** Graduate standing.
- **May be stacked with:** BIOL A461.
- **Special Note:** In addition to meeting all requirements for BIOL A461, graduate students will be required to research the literature on a current topic in molecular biology, submit an extensive paper summarizing their findings including designs for future experiments on the subject, and give a seminar on the same topic. Not available for credit to students who have completed BIOL A461.

Advanced study of molecular biology, with emphasis on molecular genetics and the molecular biology of eukaryotic cells and cancer cells, including current developments in the field.

### BIOL A662 Advanced Virology 3 CR
- **Contact Hours:** 3 + 0
- **Prerequisites:** BIOL A340.
- **Registration Restrictions:** Graduate Standing.
- **May be stacked with:** BIOL A462.
- **Special Note:** Lectures concurrent with BIOL A462. In addition to meeting all requirements for BIOL A462, graduate students will be required to research the literature on a current topic in molecular virology, prepare a research proposal summarizing their findings and describing an avenue of future research, and orally defend the research proposal. Not available for credit to students who have completed BIOL A462.

An in-depth examination of virus structure, gene expression, and replication, using selected bacterial, plant, and animal viruses; response of host cells to infection; control of virus replication via chemotherapeutic agents; and virus evolution. An understanding of cell biology is required.

### BIOL A663 Molecular Biology of Cancer 3 CR
- **Contact Hours:** 3 + 0
- **Prerequisites:** BIOL A461.
- **Registration Restrictions:** Graduate Standing.

A study of the molecular biology of cancer, with emphasis on the mechanisms by which a normal cell becomes a malignant cell, including the role of both chemical and viruses in carcinogenesis. The orientation of the course will be toward a study of current literature, by means of research, term papers, discussions, and seminars.

### BIOL A677 Advanced Tundra and Taiga Ecosystems 3 CR
- **Contact Hours:** 3 + 0
- **Prerequisites:** BIOL A271.
- **Level Restriction:** Must be Graduate - UAA level.
- **Registration Restrictions:** Graduate standing.
- **May be stacked with:** BIOL A477.
- **Special Note:** In addition to meeting all requirements for BIOL A477, graduate students will be required to research the literature on a current topic in tundra and taiga ecosystems, submit an extensive paper summarizing their findings including designs for future experiments on the subject, and give a seminar on the same topic. Not available for credit to students who have completed BIOL A477.

In-depth analysis of tundra and taiga ecosystems with emphasis on system functions and dynamics. Comparisons with other terrestrial systems will be made, and unique characteristics will be emphasized.
## Course Descriptions

**BIOL A679**  
**Advanced Physiological Plant Ecology**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: BIOL A271 and BIOL A316.  
Level Restriction: Must be Graduate - UAA level.  
Registration Restrictions: Graduate Standing.  
May be repeated with: BIOL A479.  
Special Note: In addition to meeting all requirements for BIOL A479, graduate students will be required to research the literature on a current topic in ecological plant physiology, submit an extensive paper summarizing their findings including designs for future experiments and give a seminar on the same subject. Not available for credit to students who have completed BIOL A479.  
In-depth analyses of interactions between plants and their environment. Deals with acquisition of resources, both energy and matter. Radiation interception and energy dissipation will be analyzed using energy balance equations. The nature of low and high temperature stress and adaptations to deal with these will be described.

**BIOL A690**  
**Advanced Lecture Topics in Biology**  
1-3 CR  
Contact Hours: 1-3 + 0  
Level Restriction: Must be Graduate - UAA level.  
Registration Restrictions: Graduate standing.  
Grade Mode: Pass/No Pass.  
May be stacked with: BIOL A490.  
Special Note: May be repeated for a maximum of 12 credits in combination with BIOL A690.  
Total for both courses not to exceed 12 credits towards M.S. degree.  
Registration Restrictions: Graduate standing.  
Level Restriction: Must be Graduate - UAA level.  
Special Fees.  
Special Note: May be repeated for a maximum of 12 credits in combination with BIOL A690; total for both courses not to exceed 12 credits towards M.S. degree.  
Planning, preparation, and completion of thesis for the M.S. degree in the biological sciences.

**BIOL A699**  
**Thesis**  
1-6 CR  
Contact Hours: 0 + 3-18  
Level Restriction: Must be Graduate - UAA level.  
Registration Restrictions: Graduate standing. Permission of graduate advisor required.  
Special Fees.  
Special Note: May be repeated for a maximum of 12 credits in combination with BIOL A690; total for both courses not to exceed 12 credits towards M.S. degree.  
Planning, preparation, and completion of thesis for the M.S. degree in the biological sciences.

## BIOM - Biomedical Program

**Offered Through the College of Arts and Sciences**  
Engineering Building (ENGR), Room 331, 786-4789  
http://biomed.uaa.alaska.edu

**BIOM A610**  
**Microscopic Anatomy**  
3 CR  
Contact Hours: 2 + 3  
Registration Restrictions: Admission to the WWAMI Biomedical Program.  
Grade Mode: Pass/No Pass.  
Crosslisted with: BIOL A610.  
Lectures and laboratories in microscopic anatomy are designed to provide the principles and concepts of histology, to define the morphological characteristics of the cells, tissues and organs of the human body and to relate this information to functional processes studied in concurrent and subsequent courses.

**BIOM A611**  
**Gross Anatomy I and Embryology**  
5 CR  
Contact Hours: 3 + 6  
Registration Restrictions: Admission to the WWAMI Biomedical Program.  
Grade Mode: Pass/No Pass.  
Crosslisted with: BIOL A611.  
Provides a broad understanding of the structural organization of the human body, as well as a basis in medical terminology. Goal is to provide foundation for physical examination and function assessment of the human organism. Course deals with organization of the human body at the macroscopic level. Integrates embryological development with study of the human cadaver and with examination of the normal living body. Course concentrates on study of the human torso and its cavities and the viscera they contain.

**BIOM A612**  
**Mechanisms in Cell Physiology**  
4 CR  
Contact Hours: 4 + 0  
Registration Restrictions: Admission to the WWAMI Biomedical Program.  
Grade Mode: Pass/No Pass.  
Crosslisted with: BIOL A612.  
Fundamental cellular events underlying the following topics: physiology of the cell membrane including ionic and electrical potential gradients, active transport, excitability and action potentials; biophysics of sensory receptors; neuromuscular transmission; muscle energetics and contractility; spinal reflexes and central synaptic transmission; autonomic nervous system; energy metabolism and temperature regulation; epithelial transport; gastrointestinal motility and secretions.

**BIOM A613**  
**Introduction to Clinical Medicine I**  
4 CR  
Contact Hours: 4 + 0  
Registration Restrictions: Admission to the WWAMI Biomedical Program.  
Grade Mode: Pass/No Pass.  
Crosslisted with: BIOL A613.  
Designed to develop clinical medicine skills by teaching physical examination skills, addressing advanced professional and ethical issues, and enhancing clinical reasoning skills by using the medical history and the physical examination in the process of solving problems.

**BIOM A614**  
**Biochemistry I**  
4 CR  
Contact Hours: 4 + 0  
Registration Restrictions: Admission to the WWAMI Biomedical Program.  
Grade Mode: Pass/No Pass.  
Covers molecular and cellular chemistry in humans, with emphasis on molecular genetics, proteins and carbohydrates.

**BIOM A615**  
**Medical Information for Decision Making (MIDM)**  
1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: Admission to the WWAMI Biomedical Program.  
Grade Mode: Pass/No Pass.  
An introduction to methods for identifying and retrieving high quality, relevant evidence and for describing and applying rigorous criteria when reading primary studies that report on the effectiveness of therapeutic or preventative interventions. Basic research methodologies and statistics are incorporated to assist students in evaluating the literature.
BIOM A621  Microbiology and Infectious Disease I  5 CR
Contact Hours: 5 + 0
Registration Restrictions: Admission to the WWAMI Biomedical Program.
Grade Mode: Pass/No Pass.
Crosslisted with: BIOL A621.

BIOM A622  Introduction to Clinical Medicine II  4 CR
Contact Hours: 4 + 0
Registration Restrictions: Admission to the WWAMI Biomedical Program.
Grade Mode: Pass/No Pass.
Designed to advance clinical medicine skills by adding further physical examination skills, addressing advanced professional and ethical issues, and enhancing clinical reasoning skills by using the medical history and the physical examination in the process of solving problems.

BIOM A623  Introduction to Immunology  2 CR
Contact Hours: 2 + 0
Registration Restrictions: Admission to the WWAMI Biomedical Program.
Grade Mode: Pass/No Pass.
Crosslisted with: BIOL A623.
Introduces basic immunological concepts and the role of these basic concepts in conditions such as immunodeficiencies, hypersensitivities, autoimmunity, blood transfusion, and transplantation.

BIOM A624  Biochemistry II  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the WWAMI Biomedical Program.
Grade Mode: Pass/No Pass.
Continuation of BIOM A614 with emphasis on lipid and nitrogen metabolism.

BIOM A631  Gross Anatomy II  4 CR
(Head, Neck, Ear, Nose, and Throat)
Contact Hours: 3 + 3
Registration Restrictions: Admission to the WWAMI Biomedical Program.
Grade Mode: Pass/No Pass.
Crosslisted with: BIOL A631.
Gross anatomy of the skull, larynx, and pharynx. Also covers: audition and balance; physiology; clinical evaluation; maxillo-facial disorders; diseases of nasal passages; naso- and oropharynx; accessory sinuses; and physical examination.

BIOM A632  Nervous System  5 CR
Contact Hours: 4 + 3
Registration Restrictions: Admission to the WWAMI Biomedical Program.
Grade Mode: Pass/No Pass.
Crosslisted with: BIOL A632.
Integrated approach to the normal structure and function of the nervous system, including the eye. Neuropathological examples are presented as well as clinical manifestations of neurological disease.

BIOM A634  Microbiology and Infectious Disease II  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the WWAMI Biomedical Program.
Grade Mode: Pass/No Pass.
Crosslisted with: BIOL A634.
Continuation of BIOM A621.

BIOM A650  Systems of Human Behavior I  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the WWAMI Biomedical Program.
Grade Mode: Pass/No Pass.
Crosslisted with: PSY A650.
Selected overview of contributions from behavioral sciences useful to physicians in primary care clinical practice. Emphasizes impact of such factors as cultural background, social role, sexual identity and belief system upon students’ future effectiveness as physicians. Presents role of behavioral factors in major management problems faced in medical practice. Teaches useful skills for analyzing behavior, defining behavioral objectives, and designing treatment strategies to obtain these objectives.

BIOM A653  Gross Anatomy III: Musculoskeletal System  3 CR
Contact Hours: 2 + 3
Registration Restrictions: Admission to the WWAMI Biomedical Program.
Grade Mode: Pass/No Pass.
Crosslisted with: BIOL A653.
Gross, surface, applied and X-ray anatomy of musculoskeletal system including the spine, but excluding head and neck. Also covers histology of bone, cartilage, tendon-myotendinal junction and joints; musculoskeletal trauma and healing; pathology and clinical manifestations of other degenerative, inflammatory, metabolic, nutritional and congenital disorders; and physical examinations.

BIOM A690  Selected Topics in Medical Science  1-3 CR
Contact Hours: 1-3 + 0
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: Admission to WWAMI Biomedical Program; OR graduate level and approval of WWAMI Biomedical Program Directory and Faculty.
Grade Mode: Pass/No Pass.
Special Note: May be repeated with change of subtitle and faculty approval for a maximum of 9 credits.
Theory and practice of selected topics in medical science which are of current relevance to medical students and/or graduate students in biomedicine.

CA - CULINARY ARTS

Offered through the Community & Technical College
Lucy Cuddy Hall (CUDY), Room 126, 786-4728
www.uaa.alaska.edu/cte/culinary

CA A101  The Hospitality Industry: Careers, Trends, and Practices  2 CR
Contact Hours: 2 + 0
Explores myriad career titles and opportunities in the hospitality industry and reviews emerging labor trends.

CA A103  Culinary Skill Development  4 CR
Contact Hours: 2 + 8
Prerequisites: CA A104 with minimum grade of C and CA A105 with minimum grade of C and CA A107 with minimum grade of C and CA A110 with minimum grade of C.
Corequisite: CA A111.
Special Fees.
Introduces and applies fundamental cooking theories and techniques. Emphasizes kitchen safety and sanitation, culinary French and industry terminology, and reinforces topics in nutrition, food science, recipe costing, product standards and identification.

CA A104  Sanitation  2 CR
Contact Hours: 2 + 0
Focuses on sanitation principles, concepts, methods, codes and regulations current to the foodservice industry. Offers a national exam for sanitation certification.

CA A105  Principles of Food Science  3 CR
Contact Hours: 2 + 2
Special Fees.
Explores the physical, chemical and mechanical effects on food elements during preparation, cooking, and storage.

CA A107  Cost Control  3 CR
Contact Hours: 3 + 0
Special Fees.
Focuses on critical control points in the foodservice cost control cycle. Prepares student to analyze costs and make foodservice operation decisions.

CA A110  Quantity Food Purchasing  2 CR
Contact Hours: 2 + 0
Covers foodservice industry purchasing practices and standards.

CA A111  Bakery Skill Development  4 CR
Contact Hours: 2 + 8
Prerequisites: CA A102 with minimum grade of C and CA A104 with minimum grade of C and CA A107 with minimum grade of C and CA A110 with minimum grade of C.
Corequisite: CA A103.
Special Fees.
Introduces and provides student with a solid theoretical and practical foundation in baking practices.
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**COURSE DESCRIPTIONS**

**CA A114  Beverage Management**  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Minimum age of 21 years.  
Special Fees.  
Special Note: Students have the option to become certified through an approved alcohol training curriculum that will allow them to legally serve alcohol in the state of Alaska.  
Reviews the history of the beverage industry, including alcohol and non-alcohol beverages. Focuses on the management and operations of the beverage service. Covers legal responsibilities of serving alcohol and awareness of alcohol abuse.  

**CA A115  Gourmet Cooking, Healthy Style**  1 CR  
Contact Hours: 0 + 2  
Grade Mode: Pass/No Pass.  
Special Fees.  
Features “Low fat” methods of cooking for home use. Students prepare and sample a variety of different foods including meat and meatless entrees, fresh and frozen vegetables, starchy appetizers, soups, salads, and holiday meals.  

**CA A201  A la Carte Kitchen**  4 CR  
Contact Hours: 0 + 10  
Prerequisites: CA A103 with minimum grade of C and CA A111 with minimum grade of C.  
Special Fees.  
Emphasizes cooking techniques and ingredients used in contemporary and classical cuisines.

**CA A202  Advanced Bakery**  4 CR  
Contact Hours: 2 + 8  
Prerequisites: CA A103 with minimum grade of C and CA A111 with minimum grade of C.  
Special Fees.  
Explores advanced bakery, pastry, confectionary and presentation techniques. Emphasizes production processes, service, portion controls, safety and sanitation.  

**CA A213  Breakfast/Pantry Skill Development**  3 CR  
Contact Hours: 2 + 6  
Prerequisites: CA A103 and CA A111.  
Special Fees.  
Special Note: Knife kit and chef’s uniform are required.  
Provides the learning environment for application of skills, techniques, and knowledge necessary for breakfast, brunch, short order, and pantry production. Explores menu concept development and customer service.

**CA A223  Advanced Foods: Buffet and Garde Manger**  3 CR  
Contact Hours: 2 + 8  
Prerequisites: CA A201 and CA A202.  
Special Fees.  
Menu planning, organization and production techniques necessary for buffet-style service. Student will also be exposed to ice carving, tallow and dough sculpting, and preparation and presentation of terrines, pates, appetizers and display pieces essential to buffet service.  

**CA A224  Hospitality Service**  3 CR  
Contact Hours: 1 + 6  
Prerequisites: CA A201 with minimum grade of C.  
Special Fees.  
Focuses on practical and theoretical operations in dining room service and management.  

**CA A225  Hospitality Concept Design**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: CA A103 and CA A111.  
Explores menu design and layout of professional foodservice facilities.  

**CA A230  Foodservice Management**  3 CR  
Contact Hours: 3 + 0  
Special Fees.  
Covers supervisory and management responsibilities within foodservice operations.  

**CA A295A  Foodservice Operations Practicum**  1 CR  
Contact Hours: 3 + 4  
Prerequisites: CA A104 and CA A107 and (CA A220 or concurrent enrollment).  
Registration Restrictions: Current immunizations.  
Corequisite: CA A220.  
Grade Mode: Pass/No Pass.  
Special Note: Requires facility orientation.  
Provides student with opportunity to interpret field experiences, differentiate between available strategies, recall and apply foodservice operations principles and skills. Interpret institutional protocols, manuals, guides, etc. Apply basic principles, estimate results or outcomes, and discuss work with site supervisor. Facilitates 50 hour field experience.  

**CA A295B  Foodservice Management Practicum**  1 CR  
Contact Hours: 3 + 4  
Prerequisites: CA A104 and CA A107 and (CA A220 or concurrent enrollment).  
Registration Restrictions: Current immunizations.  
Corequisite: CA A230.  
Grade Mode: Pass/No Pass.  
Special Note: Requires facility orientation.  
Provides student with opportunity to interpret field experiences, differentiate between available strategies, recall and apply foodservice management principles and skills. Interpret institutional protocols, manuals, guides, etc. Apply basic principles, estimate results or outcomes, and discuss work with site supervisor. Facilitates 50 hour field experience.  

**CA A295C  Foodservice Internship**  3 CR  
Contact Hours: 1 + 15  
Prerequisites: CA A201 with minimum grade of C and CA A202 with minimum grade of C and CA A224 with minimum grade of C and CA A230 with minimum grade of C.  
Grade Mode: Pass/No Pass.  
Provides supervised workplace training in selected foodservice industry settings. Integrates knowledge and skills through work designed to meet student's individual competency needs and career objectives. Requires minimum of 225 hours at worksite plus 15 hours of on campus instruction.  

**CA A320  Foodservice Operations**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: CA A104 with minimum grade of C and CA A105 with minimum grade of C and CA A224 with minimum grade of C and CA A230 with minimum grade of C.  
Special Fees.  
Provides theoretical and conceptual learning in foodservice operations. Emphasizes managing revenue and expense, determining sales forecasts, managing food and beverage costs, managing food and beverage production processes, projecting food and beverage price points, managing labor costs, analyzing income statements, and planning for profit.  

**CA A490  Current Topics in Food and Hospitality**  1-6 CR  
Contact Hours: 0-6 + 0-18  
Special Fees.  
Examines current topics in culinary arts resulting from special demands of the industry or special faculty expertise.  

**CA A495  Hospitality Internship**  6 CR  
Contact Hours: 2 + 40  
Registration Restrictions: Completion of Business Core and UNLV or NAU Core with cumulative minimum GPA of 2.0. Completion of GER Tier 1 (basic college-level skills) requirements.  
Course Attributes: UAA GER Integrative Capstone.  
Special Note: Requires professional attire.  
Expands the application of theoretical concepts and principles in the hospitality restaurant management work environment. Emphasizes professional competency in customer relations and service, human resource management, operations management, food and beverage cost control, marketing, ethics, and service quality control. Requires a minimum of 560 hours at work site plus 40 hours of related seminar instruction and project work.  

**CE - CIVIL ENGINEERING**

Offered through the School of Engineering  
Engineering Building (ENGR), Room 201, 786-1900  
www.engr.uaa.alaska.edu

**CE A334  Properties of Materials**  3 CR  
Contact Hours: 2 + 3  
Prerequisites: ES A302 with minimum grade of C and (ES A331 with minimum grade of C or concurrent enrollment).  
Registration Restrictions: “Civil Engineering Professional” status or approval by the Civil Engineering department chair.  
Corequisite: CE A334L.  
Special Fees.  
Experimental investigation of the properties of civil engineering materials and the basic principles of mechanics. The development of testing procedures, the use of standard testing procedures, and the interpretation of data are also covered. There is a strong emphasis on technical report writing.  

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www.uaa.alaska.edu
COURSE DESCRIPTIONS

CE A344 Water Resources Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: ES A341 with minimum grade of C and ES A341L with minimum grade of C.
Major Restriction: Must be Civil Engineering major.

Provides a working knowledge of principles and procedures for planning and design of systems for management of water resources.

CE A402 Transportation Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A435 with minimum grade of C.
Registration Restrictions: “Civil Engineering Professional” status in BS Civil Engineering program.

Introduction to planning and engineering of transportation systems and their functions, components, and operation. Those systems include highways, airports, railroads, and water transportation with emphasis for highways on planning, geometrical design, traffic operations, and design of pavement structures.

CE A403 Arctic Engineering 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior or senior standing in an accredited undergraduate program in engineering.
May be stacked with: CE A603.

Introduces students to a broad spectrum of engineering challenges unique to cold regions. Physical principles and practical data collection methods, analyses, designs, and construction methods are discussed. Students gain a working knowledge of cold regions engineering problems and modern solutions as a basis for more detailed study.

CE A422 Foundation Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A435 with minimum grade of C.
Registration Restrictions: “Civil Engineering Professional” status or approval by the Civil Engineering department chair.

Concepts, principles, and/or procedures related to slope stability, shallow foundations, pile foundations, drilled shafts, lateral earth pressure, retaining walls, sheet pile walls, braced cuts, soil improvement, and reinforced earth structures.

CE A423 Traffic Engineering 3 CR
Contact Hours: 2 + 2
Prerequisites: CE A402 with minimum grade of C.
May be stacked with: CE A623.

Traffic engineering studies and analyses, traffic flow theory, traffic control systems design, signalization, and capacity analyses.

CE A424 Pavement Design 3 CR
Contact Hours: 2 + 2
Prerequisites: CE A402 with minimum grade of C.
Analysis and design of highway and airport pavements, principles of theoretical and practical approaches for the design of flexible and rigid pavement structures. Methods for asphalt concrete mixture design and performance measures.

CE A425 Highway Engineering 3 CR
Contact Hours: 2 + 3
Prerequisites: CE A402 with minimum grade of C.
May be stacked with: CE A625.

Geometrical and structural design, construction, and maintenance of highway facilities and associated economic, social, and environmental consequences.

CE A431 Structural Analysis 4 CR
Contact Hours: 4 + 0
Prerequisites: CE A334 with minimum grade of C and ES A331 with minimum grade of C.
Major Restriction: Must be Civil Engineering major.

Review of statically determinate beams and trusses. Discusses shearing, bending moment and influence of line diagrams for statically determinate and indeterminate structures. Includes the study of deflections, elastic lines, an introduction to matrix and computer analyses.

CE A432 Steel Design 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431 with minimum grade of C.
Registration Restrictions: “Civil Engineering Professional” status or approval by the Civil Engineering department chair.

Essentials of structural design in steel including building code requirements and standard practice for the design of basic structural elements and connections.

CE A433 Reinforced Concrete Design 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431 with minimum grade of C.
Registration Restrictions: “Civil Engineering Professional” status or approval by the Civil Engineering department chair.

Essentials of structural design in reinforced concrete including building code requirements and standard practice for the design of basic structural elements.

CE A434 Timber Design 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431.
Registration Restrictions: “Civil Engineering Professional” status or approval by the Civil Engineering department chair.
Special Note: Offered Alternate Fall Semesters.

Essentials of structural design in timber including building code requirements and standard practice for the design of basic structural elements, connections, and shearwall lateral force resisting systems.

CE A435 Soil Mechanics 3 CR
Contact Hours: 2 + 3
Prerequisites: ES A331 with minimum grade of C and CE A334 with minimum grade of C.
Registration Restrictions: “Civil Engineering Professional” status or approval by the Civil Engineering department chair.
Corequisite: CE A435L.
Special Fees.

Concepts, principles, and/or procedures related to soil formation and classification, soil compaction, flow of water in soils, stresses in a soil mass, soil settlement, shear strength of soil, subsoil exploration, and frost action.

CE A438 Design of Civil Engineering Systems 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission, based on evidence that the student will complete all BSCE graduation requirements within the calendar year.
Course Attributes: UAA GER Integrative Capstone.

Capstone course in which civil engineering students collaborate in multidisciplinary teams to design a complex civil engineering system that meets client needs while protecting public health and safety. Students apply knowledge and skills learned in their undergraduate curriculum.

CE A441 Introduction to Environmental Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: CHEM A106 with minimum grade of C and CHEM A106L with minimum grade of C. and (ES A341 with minimum grade of C or concurrent enrollment) and (ES A341L with minimum grade of C or concurrent enrollment).
Major Restriction: Must be Civil Engineering major.
Special Fees.

Introduction to the fundamentals of environmental engineering. Includes the theory and application of water and wastewater engineering, water supply concepts, wastewater characteristics, treatment and disposal, solid waste management and air pollution control.

CE A442 Environmental Systems Design 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A441.
Special Note: Offered Spring Semesters.

An advanced course on the design of systems commonly used in environmental engineering practice with an emphasis on water and wastewater treatment and contaminated soils. Design of unit processes and operations will be performed. Selection of system components, design and performance calculations, and complete engineering reports are required.

CE A470 Civil Engineering Internship 1 CR
Contact Hours: 0 + 3
Registration Restrictions: Senior standing or permission of department coordinator.
Special Fees.

Designed to give students the opportunity to investigate the practical workings of engineering organizations. Assignments individually arranged with cooperating organizations and agencies.
### CE A600 Fundamentals of Environmental Science and Engineering 3 CR

Contact Hours: 3 + 0  
Registration Restrictions: Registrants must be enrolled in the AEST or CE graduate programs, or gain instructor approval.

- A fundamental course in environmental science and engineering for students who have strong undergraduate training in the sciences or engineering. Provides basic and specialized understanding of essentially all fundamental aspects of the field with a focus upon aquatic and terrestrial environments. Emphasis is placed upon the fundamentals of biological, chemical, and physical science which underlie both natural and cultural environmental effects. Includes the use and application of equilibrium processes, mass and energy balances, processes that occur in natural systems and others.

### CE A603 Arctic Engineering 3 CR

Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing with a baccalaureate degree in engineering. No previous credits for CE A403.

- May be stacked with: CE A403.

- Special Fees.

- Introduces students to a broad spectrum of engineering challenges that are unique to cold regions. Physical principles and practical data collection methods, analyses, designs, and construction methods are discussed. Students gain a working knowledge of cold-region engineering problems and modern solutions as a basis for detailed study.

### CE A605 Chemical and Physical Water and Wastewater Treatment Processes 3 CR

Contact Hours: 3 + 0  
Registration Restrictions: Registrants must be enrolled in the AEST or CE graduate programs, or gain instructor approval.

- The theory and design of chemical and physical unit processes utilizing the treatment of water and wastewater. Sedimentation and flotation, ion exchange, adsorption, coagulation, precipitation, filtration, disinfection, reverse osmosis and aeration theories will be studied. Design problems for all unit processes.

### CE A606 Biological Treatment Processes 3 CR

Contact Hours: 3 + 0  
Registration Restrictions: Registrants must be enrolled in AEST or CE graduate programs, or gain instructor approval.

- Special Fees.

- Study of the theoretical and biological processes including activated sludge, trickling filters, lagoons, sludge digestion and processing, septic tanks, analysis and design, nutrient removal processes, biology of polluted waters, economics, state and federal regulations.

### CE A610 Engineering Seismology 3 CR

Contact Hours: 3 + 0  
Prerequisites: CE A435 with minimum grade of C.

- Registration Restrictions: Graduate level or undergraduate senior standing, or instructor permission.

- Covers internal structure of the earth, causes and occurrence of earthquakes, seismic waves and their propagation, seismograms, strong ground motion measurements, accelerometers and seismic network, data processing and interpretation of strong motion records, estimation of ground motion parameters and spatial variability, probabilistic and deterministic seismic hazard assessment with special reference to Alaska.

### CE A611 Geotechnical Earthquake Engineering 3 CR

Contact Hours: 3 + 0  
Prerequisites: CE A435 with minimum grade of C.

- Registration Restrictions: Graduate level or undergraduate senior standing, or instructor approval.

- Covers earthquakes and seismology, strong ground motion measurement, seismic hazard analysis, ground response analysis, dynamic soil properties, liquefaction, soil-structure interaction, seismic slope stability, and seismic design of retaining structures, with applications to cold regions geotechnical earthquake engineering problems.

### CE A622 Advanced Foundation Design 3 CR

Contact Hours: 3 + 0  
Prerequisites: CE A422 with minimum grade of C.

- Registration Restrictions: Undergraduate civil engineering senior, graduate standing in engineering, or instructor permission.

- Special Fees.

- Presents the analysis, design, and construction aspects of deep foundations and other special topics of deep foundations related to cold regions engineering. Specifically, this course will cover lateral earth pressures, lateral support systems, single pile and pile group behavior under vertical and lateral loads, including static and dynamic loading conditions, and the latest development in soil improvement and ground modification techniques. Special foundation engineering issues related to cold regions will also be discussed.

### CE A623 Traffic Engineering 3 CR

Contact Hours: 2 + 2  
Prerequisites: CE A402 with minimum grade of C. May be stacked with: CE A423.

- Traffic engineering studies and analyses, traffic flow theory, traffic control systems design, signalization, and capacity analyses.

### CE A624 Pavement Design 3 CR

Contact Hours: 2 + 2  
Prerequisites: CE A402 with minimum grade of C. May be stacked with: CE A424.

- Analysis and design of highway and airport pavements, principles of theoretical and practical approaches for the design of flexible and rigid pavement structures. Methods for asphalt concrete mixture design and performance measures.

### CE A625 Highway Engineering 3 CR

Contact Hours: 2 + 3  
Prerequisites: CE A402 with minimum grade of C. Major Restriction: Must be Civil Engineering major. May be stacked with: CE A425. Special Fees.

- Geometrical and structural design, construction, and maintenance of highway facilities and associated economic, social, and environmental consequences.

### CE A631 Structural Finite Elements 3 CR

Contact Hours: 3 + 0  
Prerequisites: ES A301 and CE A431.

- Introduction to finite element and computer methods in structural analysis. Matrix algebra, the slope-deflection and the direct stiffness methods will be reviewed. Topics include: finite elements and corresponding matrix equations for a truss, for a beam and for frame structures, organization of typical computer programs, two-dimensional stress-strain problems, eigenvalue problems, and practical applications of engineering software.

### CE A633 Structural Dynamics 3 CR

Contact Hours: 3 + 0  
Prerequisites: CE A431 and MATH A302. Special Fees.

- Covers the theory of structural dynamics, including single and multiple degree of freedom systems subjected to earthquake and other excitations. Application to analysis and design of civil engineering structures is emphasized.

### CE A634 Structural Earthquake Engineering 3 CR

Contact Hours: 3 + 0  
Prerequisites: CE A431 with minimum grade of C and CE A633 with minimum grade of C.

- Registration Restrictions: Graduate level or undergraduate senior standing, or instructor approval.

- Introduces basic seismic concepts and design principles. Criteria for design and construction of structure subject to earthquake ground motions. Also includes technology for reducing earthquake loads through seismic isolation.

### CE A636 Multi-Story Building Structural Design 3 CR

Contact Hours: 3 + 0  
Prerequisites: CE A431 with minimum grade of C and CE A432 with minimum grade of C and CE A433 with minimum grade of C and CE A639 with minimum grade of C.

- Registration Restrictions: Graduate level or undergraduate senior standing, or instructor approval.

- Teaches the design of structural systems for buildings. Topics covered include the selection and analysis of structural systems, building codes and their origins, and an introduction to the development of design drawings and specifications.

### CE A637 Earthquake Resistant Structural Design 3 CR

Contact Hours: 3 + 0  
Prerequisites: CE A431 with minimum grade of C and CE A432 with minimum grade of C and CE A433 with minimum grade of C.

- Registration Restrictions: Graduate level or undergraduate senior standing, or instructor approval.

- Covers the special structural detail requirements for earthquake design in steel, concrete, timber, and masonry.

### CE A639 Loads on Structures 3 CR

Contact Hours: 3 + 0  
Prerequisites: CE A431 with minimum grade of C and CE A435 with minimum grade of C.

- Registration Restrictions: Graduate level or undergraduate senior standing, or instructor approval.

- Covers the computation of loads on structures using ASCE 7, Minimum Design Loads for Buildings and Other Structures. The computation of loads (dead, live, soil, flood, snow, wind, and seismic) and probable combinations of loads will be covered.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE A662</td>
<td>Surface Water Dynamics</td>
<td>3 CR</td>
</tr>
<tr>
<td>CE A663</td>
<td>Ground Water Dynamics</td>
<td>3 CR</td>
</tr>
<tr>
<td>CE A674</td>
<td>Waves, Tides, and Ocean Processes for Engineers</td>
<td>3 CR</td>
</tr>
<tr>
<td>CE A675</td>
<td>Design of Ports and Harbors</td>
<td>3 CR</td>
</tr>
<tr>
<td>CE A676</td>
<td>Coastal Engineering</td>
<td>3 CR</td>
</tr>
<tr>
<td>CE A677</td>
<td>Coastal Measurements and Analysis</td>
<td>3 CR</td>
</tr>
<tr>
<td>CE A681</td>
<td>Frozen Ground Engineering</td>
<td>3 CR</td>
</tr>
<tr>
<td>CE A682</td>
<td>Ice Engineering</td>
<td>3 CR</td>
</tr>
<tr>
<td>CE A683</td>
<td>Arctic Hydrology and Hydraulic Engineering</td>
<td>3 CR</td>
</tr>
<tr>
<td>CE A684</td>
<td>Arctic Utility Distribution</td>
<td>3 CR</td>
</tr>
<tr>
<td>CE A686</td>
<td>Civil Engineering Project</td>
<td>1-6 CR</td>
</tr>
<tr>
<td>CE A688</td>
<td>Snow Engineering</td>
<td>3 CR</td>
</tr>
<tr>
<td>CE A698</td>
<td>Individual Research</td>
<td>1-6 CR</td>
</tr>
<tr>
<td>CE A699</td>
<td>Thesis</td>
<td>1-6 CR</td>
</tr>
<tr>
<td>CED A110</td>
<td>Employment Development Planning</td>
<td>1 CR</td>
</tr>
<tr>
<td>CED A115</td>
<td>Elderhostel: The Alaskan Adventure</td>
<td>1 CR</td>
</tr>
<tr>
<td>CED A119</td>
<td>Community Awareness Workshop on Domestic Violence and Sexual Assault</td>
<td>4 CR</td>
</tr>
</tbody>
</table>

**Course Descriptions**

CE A662  **Surface Water Dynamics**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: ES A341.  
Principles of open channel flow, ice covered flow, unsteady flow, and stream flow as a sediment and pollution transport agent.

CE A663  **Ground Water Dynamics**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: ES A341.  
Fundamentals of geohydrology, hydraulics of flow through porous media, well hydraulics, ground water pollution, and ground water resources development.

CE A674  **Waves, Tides, and Ocean Processes for Engineers**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: ES A341.  
Introduction to the physical properties and behavior of sea water with the ocean basins, and the practice of ocean research and engineering. Introduction to the physical properties and behavior of free surface gravity waves, measurements and characterizations of ocean wave climate, and interactions of ocean waves with structures and natural coastal features.

CE A675  **Design of Ports and Harbors**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: ES A341.  
Registration Restrictions: Prerequisite and graduate standing, or instructor permission.  
Introduction to planning and design of port and harbor facilities.

CE A676  **Coastal Engineering**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: Bachelor's degree in Civil engineering.  
Special Note: Offered Alternate Spring Semesters.  
Review of deep and shallow water waves, littoral drift, coastal structures, pollution problems, and harbor seiches.

CE A677  **Coastal Measurements and Analysis**  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Upper class or graduate standing in Geomatics, Engineering, or Natural Sciences.  
Special Fees.  
Review of and practice with modern instrumentation, equipment, sampling and measurement techniques, and methods of analysis for quantitative study of coastal ocean physical processes.

CE A681  **Frozen Ground Engineering**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: CE A435.  
Registration Restrictions: Graduate standing, with a baccalaureate degree in engineering, or upper class standing in an accredited undergraduate program in engineering.  
Special Fees.  
Physical, thermal, and mechanical properties of frozen soils, frost action, heat flow in soils, thaw behavior of frozen ground, foundations in frozen ground, construction ground freezing, pavement design, earthwork, and field investigations for frozen ground.

CE A682  **Ice Engineering**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: ES A331.  
Registration Restrictions: Graduate standing, with a degree in engineering or physical science, or upper class standing in an accredited undergraduate program in these categories.  
Special Fees.  
Factors are reviewed governing design of engineering works which must contend with the presence of ice. Topics discussed include fundamental ice properties, river, lake, and sea ice processes, ice navigation and control of ice in channels, structural and non-structural ice control measures, ice jams, bearing capacity of floating ice sheets, ice forces on riverine and ocean structures.

CE A683  **Arctic Hydrology and Hydraulic Engineering**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: CE A344.  
Registration Restrictions: Graduate standing, with degree in engineering or physical science, or upper class standing in an accredited undergraduate program in these categories.  
Special Fees.  
Aspects of hydrology and hydraulics unique to engineering problems of the North. Emphasis on Alaskan conditions, information from Canada and other circumpolar countries included.

CE A684  **Arctic Utility Distribution**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: CE A344.  
Registration Requirements: Graduate standing, with a degree in engineering or physical science, or upper class standing in an accredited undergraduate program in these categories.  
Special Fees.  
Reviews physical principles and current practices associated with planning and design of safe, efficient, and affordable water supply, fire protection, wastewater collection and disposal, and solid waste disposal works in cold regions, with a view toward conditions of rural Arctic Alaska.

CE A686  **Civil Engineering Project**  1-6 CR  
Contact Hours: 1-6 + 0  
Registration Restrictions: Admission to candidacy for the master of civil engineering degree.  
Arranged between the advisor, project committee, and the student. The student is required to take an oral exam defending the project.

CE A688  **Snow Engineering**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: ES A331.  
Registration Restrictions: Graduate standing, with a degree in engineering or physical science, or upper class standing in an accredited undergraduate program in these categories.  
Special Fees.  
Factors are reviewed governing design of engineering works which must contend with the presence of snow or use snow as a structural material. Topics include basic physical properties of snow, snow deposition and metamorphism, snow measurements, snow mechanical and thermal properties, snow-wind interactions, snow loads on buildings and other structures, snow control, and avalanches.

CE A698  **Individual Research**  1-6 CR  
Contact Hours: 1-6 + 0  
Registration Restrictions: Graduate committee permission.  
A course to be designed between the student and faculty member to allow students the chance to pursue special advanced interests in engineering at the MS level.

CE A699  **Thesis**  1-6 CR  
Contact Hours: 1-6 + 0  
Registration Restrictions: Graduate committee permission.  
Individual study of an advanced engineering problem resulting in a thesis. The student must have been admitted to candidacy for the master of science in civil engineering. The student must take an oral exam defending the thesis.

**CED - COMMUNITY EDUCATION**

Offered through Chugiak-Eagle River Campus  
(907) 694-3313  
www.uaa.alaska.edu/ctc/programs/chugiak-eagleriver

CED A110  **Employment Development Planning**  1 CR  
Contact Hours: 1 + 0  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.  
Designed to encourage and prepare single parents/displaced homemakers to pursue an education and/or employment, by establishing goals and utilizing available resources. Includes communication skills, resume writing, interviewing techniques, self-image and problem solving techniques. Emphasis in goal setting and career planning.

CED A115  **Elderhostel: The Alaskan Adventure**  1 CR  
Contact Hours: 1 + 0  
Grade Mode: Pass/No Pass.  
Overview of components of the Alaskan adventure, history, natural history, anthropology, literature, geology. Emphasis on Kachemak Bay.

CED A119  **Community Awareness Workshop on Domestic Violence and Sexual Assault**  4 CR  
Contact Hours: 3 + 2  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.  
Introduces Women's Resource and Crisis Center services, domestic violence and sexual assault issues, and basic skills necessary for victim advocacy.
COURSE DESCRIPTIONS

CED A124  Herbal and Nutritional Studies  1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
A survey of herbal remedies, homeopathy, nutritional treatments, and the role of vitamins and minerals in maintaining good health. Examines the Food and Drug Administration regulations for herbal and nutritional supplements.

CED A125  Yoga: Study and Practice  1 CR
Contact Hours: .5 + 1
Grade Mode: Pass/No Pass.
A study of the health benefits of Hatha Yoga. Students practice the basic breathing, stretching, and relaxation techniques of yoga while learning of the effectiveness of this discipline in treating various health problems.

CED A126W  Yoga for Educators  1 CR
Contact Hours: 1 + 0
Integrates Yoga techniques and strategies into the P-12 curriculum and applies yoga-based practices for enhanced learning/productivity and personal health/wellness.

CED A133  Beginning Fly Fishing  1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Introduces the basics of fly fishing, including selection of equipment, types of line, flies, and techniques geared toward local lakes and streams.

CED A140  Calculator Workshop  1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Familiarizes students with the operation of a graphics calculator. Specific uses of the calculator appropriate to arithmetic, algebra, trigonometry, a calculus will be presented.

CED A150  Basic Japanese Cooking  1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
An introduction to the foods, utensils, and techniques used in Japanese cooking.

CED A157  The Art and History of Brewing  1 CR
Contact Hours: 1 + 0
Registration Restrictions: Must be 21 or older to enroll.
Grade Mode: Pass/No Pass.
Introduces the basic brewing process, the styles of beer, their historical and regional origins, and their presentation and pairing with food. Includes field trips to local breweries.

CED A160  Appreciating Opera  1 CR
Contact Hours: 1 + 0
Introduces the major eras, composers, and styles of opera.

CED A171  Log Cabin Construction  1-3 CR
Contact Hours: 1 + 1-6
Applies techniques and skills of log cabin construction. Covers planning and organization, estimating cost, and major phases of log building construction including foundation, floor, walls, roof, windows, doors and trim.

CED A180  Oil Painting Workshop  3 CR
Contact Hours: 0 + 6
Grade Mode: Pass/No Pass.
Community interest painting course emphasizing materials and techniques. Subject matter includes Alaskan scenes and other selections.

CED A185  Presenting Art Lessons in K-12  1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Focuses on methods for effective delivery of art concepts to school children using the Discipline-Based approach to arts education. Each student presents an art lesson in a K-12 classroom (Service Learning component).

CED A210  Crime Scene Investigation  2 CR
Offered only at Kenai Peninsula College.
Covers the fundamentals of investigation. Includes crime scene search and recording, collection and presentation of physical evidence, scientific aids, modus operandi, sources of information, interview and interrogations, follow-up and case preparation.

CED A231  Grant Proposal Writing  1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offers only at Kenai Peninsula College.
Presents an overview of funding sources and references, and provides an in-depth description of the components of a grant proposal.

CEL - CIVIC ENGAGEMENT & LEARNING
Offered through the College of Health & Social Welfare
Administration/Humanities Building (ADM), Room 148, 786-4062
http://chsw.uaa.alaska.edu

CEL A292  Introduction to Civic Engagement  3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Social Sciences Requirement.
Introduces students to types of civic engagement in a democracy, practices of engagement and inquiry, and public issues of ethics, environmental sustainability, community building and human and civil rights through readings, reflections and community inquiry.

CEL A395  Civic Engagement Internship  3-9 CR
Contact Hours: 0-1 + 6-27
Registration Restrictions: Completion of GER Tier 1 (Basic college-level skills) courses and instructor approval.
Special Fees.
Internship in which student gains intensive experience applying principles of civic engagement and major-disciplinary knowledge and skills to a community-identified problem. Students are encouraged to do their internships in rural Alaskan or international communities.

CEL A450  Civic Engagement Capstone  3 CR
Contact Hours: 2 + 2
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) and GER Tier II and instructor approval.
Course Attributes: UAA GER Integrative Capstone.
Special Fees.
Integration of major and GER coursework through an individual civic engagement project.

CHEM - CHEMISTRY
Offered through the College of Arts and Sciences
ConocoPhillips Integrated Sciences Building (CPSB), Room 101, 786-1238
http://chem.uaa.alaska.edu

CHEM A055  Contemporary Chemistry  3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A055.
Introductory course for students with little or no chemistry background. Covers units of measurement, matter, atoms, periodic table, nomenclature, equations, oxidation-reduction, solutions, calculations, and problem solving.

CHEM A055L  Contemporary Chemistry Laboratory  1 CR
Contact Hours: 0 + 3
Prerequisites: (CHEM A055 or concurrent enrollment).
Special Fees.
Laboratory designed to teach the fundamentals of working with laboratory equipment, data gathering, analysis, and reporting.

CHEM A103  Survey of Chemistry  3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A105 with minimum grade of C.
Registration Restrictions: CHEM A105 with a minimum grade of C or college preparatory high school chemistry with a minimum grade of C. If the MATH A105 prerequisite is not satisfied, appropriate scores on the SAT or ACT tests or appropriate scores on a UAA-approved placement test such as the Accuplacer Placement test.
Course Attributes: UAA GER Natural Sciences Requirement.
Special Note: This is an introductory course designed for health science majors and assumes prior knowledge of college preparatory high school chemistry and algebra. CHEM A103L is the laboratory component of this course and requires a separate registration.
Survey of topics including: matter, energy, units of measurement, the periodic table, atomic and molecular structure, chemical bonding, radioactivity, oxidation-reduction reactions, solutions involving acids, bases and buffers; and an introduction to organic chemistry with units on functional groups and the chemistry of alkanes, alkenes, and alkynes.
CHEM A103L Survey of Chemistry Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: (CHEM A103 or concurrent enrollment).
Course Attributes: UAA GER Natural Sciences Lab Only.
Special Fees.
Special Note: Students who do not meet the prerequisites for this course may be administratively dropped at the discretion of the faculty. Attendance is mandatory for all chemistry laboratory courses the first week of class. Unless prior arrangements are made with the instructor, any student who does not attend the first scheduled meeting for this lab may be administratively dropped and a student on a waiting list will be added in their place. Any fees resulting from either of these drop procedures or any late registration procedure will be the responsibility of the student.

An introductory chemistry laboratory course with experiments designed to introduce students to the basics of laboratory equipment, data collection, data analysis, and reporting; and to illustrate, augment and apply concepts covered in CHEM A103.

CHEM A104 Introduction to Organic Chemistry and Biochemistry 3 CR
Contact Hours: 3 + 0
Prerequisites: CHEM A103 with minimum grade of C.
Course Attributes: UAA GER Natural Sciences Requirement.
Special Note: CHEM A104L is the lab component of this course and requires a separate registration.

This is the second semester course in the sequence for health science majors. The course content includes: common nomenclature of organic compounds, organic functional group reactions, biochemical processes and pathways, biological macromolecules and metabolites.

CHEM A104L Introduction to Organic Chemistry and Biochemistry Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: CHEM A103 with minimum grade of C and (CHEM A104 or concurrent enrollment).
Course Attributes: UAA GER Natural Sciences Lab Only.
Special Fees.
Special Note: CHEM A104L is highly recommended.
Special Note: Students who do not meet the prerequisites for this course may be administratively dropped at the discretion of the faculty. Attendance is mandatory for all chemistry laboratory courses the first week of class. Unless prior arrangements are made with the instructor, any student who does not attend the first scheduled meeting for this lab may be administratively dropped and a student on a waiting list will be added in their place. Any fees resulting from either of these drop procedures or any late registration procedure will be the responsibility of the student.

Second semester introductory chemistry laboratory course. Experiments are designed to reinforce concepts students have been exposed to regarding the basics of laboratory equipment, data collection, data analysis, and reporting. This course illustrates, augments, and applies concepts covered in CHEM A104.

CHEM A105 General Chemistry I 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A105 with minimum grade of C.
Registration Restrictions: CHEM A055 with a minimum grade of C or college preparatory high school chemistry with a minimum grade of C. If the MATH A105 prerequisite is not satisfied, appropriate scores on the SAT or ACT tests or appropriate scores on a UAA-approved placement test such as the Accuplacer placement test.
Course Attributes: UAA GER Natural Sciences Requirement.
Special Note: Assumes prior knowledge of college preparatory high school chemistry and algebra. CHEM A105L is the lab component of this course and requires a separate registration.

Introduction to general chemistry for science majors which includes topics in elements and compounds, the periodic table, atomic and subatomic theory and spectroscopy, bonding, various chemical reactions, thermodynamics, atomic and molecular interactions in gases, liquids, solids and solution chemistry.

CHEM A105L General Chemistry I Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: (CHEM A105 or concurrent enrollment).
Course Attributes: UAA GER Natural Sciences Lab Only.
Special Fees.
Special Note: Students who do not meet the prerequisites for this course may be administratively dropped at the discretion of the faculty. Attendance is mandatory for all chemistry laboratory courses the first week of class. Unless prior arrangements are made with the instructor, any student who does not attend the first scheduled meeting for this lab may be administratively dropped and a student on a waiting list will be added in their place. Any fees resulting from either of these drop procedures or any late registration procedure will be the responsibility of the student.

An introductory chemistry laboratory course with experiments designed to introduce students to the basics of laboratory equipment, data collection, data analysis, and reporting; and to illustrate, augment and apply concepts covered in CHEM A105.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Special Fees</th>
<th>Registration Restrictions</th>
<th>Corequisites</th>
<th>Special Fees</th>
<th>Special Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM A232L</td>
<td>Organic Chemistry Laboratory</td>
<td>2 CR</td>
<td>0 + 6</td>
<td>Prequisites: CHEM A321 with minimum grade of C and (CHEM A322 with minimum grade of C or concurrent enrollment).</td>
<td>Corequisite: CHEM A322. Special Note: Concurrent enrollment in CHEM A322 is required unless completed with a minimum grade of C.</td>
<td>Special Fees</td>
<td>-</td>
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<td></td>
<td>Students who do not meet the prerequisites for this course may be administratively dropped at the discretion of the faculty. Attendance is mandatory for all chemistry laboratory courses the first week of class. Unless prior arrangements are made with the instructor, any student who does not attend the first scheduled meeting for this lab may be administratively dropped and a student on a waiting list will be added in their place. Any fees resulting from either of these drop procedures or any late registration procedure will be the responsibility of the student. A practical implementation of the theory learned in CHEM A321 and A322. Purification techniques, spectroscopic methods, and synthetic methods of organic compounds will be taught.</td>
</tr>
<tr>
<td>CHEM A331</td>
<td>Physical Chemistry I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prequisites: CHEM A106 with minimum grade of C and CHEM A106L with minimum grade of C and MATH A202 with minimum grade of C and PHYS A212 with minimum grade of C and PHYS A212L with minimum grade of C. Special Note: MATH A302 is strongly recommended.</td>
<td>A quantitative study of principles of thermodynamics, kinetic molecular theory of gases, and chemical kinetics. Applications to solutions, phase equilibria, chemical reactions and transport properties. A brief introduction to quantum mechanics and spectroscopy.</td>
<td></td>
<td>Registration Restrictions: Junior standing. Completion of all GER Tier 1 (basic college-level skills) courses.</td>
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<tr>
<td>CHEM A332</td>
<td>Physical Chemistry II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prequisites: [CHEM A331 with minimum grade of C or PHYS A303 with minimum grade of C or MATH A314 with minimum grade of C]. Special Note: MATH A302 is strongly recommended.</td>
<td>Principles of quantum mechanics with application to atomic and molecular structure and spectroscopy. Introduction to statistical mechanics.</td>
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<td>Registration Restrictions: Junior standing. Completion of all GER Tier 1 (basic college-level skills) courses.</td>
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<tr>
<td>CHEM A333L</td>
<td>Physical Chemistry Lab</td>
<td>2 CR</td>
<td>0 + 6</td>
<td>Prequisites: [CHEM A331 with minimum grade of C and (CHEM A332 with minimum grade of C or concurrent enrollment)] or [PHYS A403 with minimum grade of C and PHYS A413 with minimum grade of C].</td>
<td>Special Fees. Techniques in operating new and specialized instruments for qualitative and quantitative analysis and analytical methods of an advanced nature. For students in chemistry and allied fields.</td>
<td></td>
<td>Registration Restrictions: Junior standing. Completion of all GER Tier 1 (basic college-level skills) courses. Completion of seven credits of GER Tier 2 courses in the Natural Sciences including BIOL A115. May be stacked with: CHEM A641. Course Attributes: UAA GER Integrative Capstone.</td>
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<tr>
<td>CHEM A434</td>
<td>Instrumental Methods</td>
<td>4 CR</td>
<td>2 + 6</td>
<td>Prequisites: CHEM A212 with minimum grade of C. May be stacked with: CHEM A643.</td>
<td>Special Fees. Techniques in operating new and specialized instruments for qualitative and quantitative analysis and analytical methods of an advanced nature. For students in chemistry and allied fields.</td>
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<td>Registration Restrictions: Admission to the chemistry degree program and faculty permission.</td>
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<tr>
<td>CHEM A441</td>
<td>Principles of Biochemistry I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prequisites: BIOL A115 with minimum grade of C and CHEM A322 with minimum grade of C. Registration Restrictions: Junior standing. Completion of all GER Tier 1 (basic college-level skills) courses. Completion of seven credits of GER Tier 2 courses in the Natural Sciences including BIOL A115. May be stacked with: CHEM A641. Course Attributes: UAA GER Integrative Capstone.</td>
<td>Special Note: Students who complete CHEM A441 as part of their undergraduate degree cannot receive credit towards their graduate degree from CHEM A641. A study of the structure and function of amino acids, proteins, carbohydrates, nucleic acids, lipids and membranes.</td>
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<td>Registration Restrictions: Admission to the chemistry degree program and faculty permission.</td>
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<tr>
<td>CHEM A442</td>
<td>Principles of Biochemistry II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prequisites: CHEM A441 with minimum grade of C. May be stacked with: CHEM A642. Special Note: Students who complete CHEM A442 as part of their undergraduate degree cannot receive credit towards their graduate degree from CHEM A642.</td>
<td>A study of the bioenergetics and the metabolic pathways of amino acids, proteins, carbohydrates, nucleic acids, and lipids.</td>
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<td>Registration Restrictions: Department permission.</td>
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<tr>
<td>CHEM A443</td>
<td>Biochemistry Laboratory</td>
<td>2 CR</td>
<td>0 + 6</td>
<td>Prequisites: CHEM A441 with minimum grade of C and (CHEM A442 or concurrent enrollment). Special Fees. Laboratory course designed to provide instruction in modern biochemical laboratory techniques.</td>
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<tr>
<td>CHEM A450</td>
<td>Environmental Chemistry</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Pre-registration Restrictions: Junior or senior standing in biology, chemistry, or engineering. Special Note: This course is an introduction to environmental chemistry for all science majors. The origin and evolution of the environment, energy, mineral resources, solid wastes, recycling, and the effects of foreign substances on living systems. Air and water pollution. Quantitative chemical principles will be applied. The interrelationships among these problems will be demonstrated.</td>
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<tr>
<td>CHEM A453</td>
<td>Advanced Inorganic Chemistry</td>
<td>5 CR</td>
<td>3 + 6</td>
<td>Prequisites: CHEM A253 with minimum grade of C and CHEM A332. Special Fees. A study of the structure, properties, reactions, and bonding of main group, d and f elements with emphasis on metals and solid state chemistry.</td>
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<tr>
<td>CHEM A456</td>
<td>Nonlinear Dynamics and Chaos</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prequisites: MATH A202 with minimum grade of C and [PHYS A124 with minimum grade of C or PHYS A212 with minimum grade of C]. Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and junior standing. Crosslisted with: BIOL A456 and PHYS A456. Course Attributes: UAA GER Integrative Capstone.</td>
<td>An introduction to nonlinear dynamics and chaos. Concrete examples from physics, biology, chemistry, and engineering are used to develop analytical methods and geometric intuition. Topics covered include phase plane analysis, iterated maps, fractals, and strange attractors.</td>
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<tr>
<td>CHEM A460</td>
<td>Chemical Ecotoxicology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prequisites: CHEM A322. May be stacked with: CHEM A660. The study of the relationships between the observed levels of chemicals in the environment and their biological effects. Special attention will be given to persistent toxic compounds, the dependence of their fate on their physical and chemical properties, and the environmental conditions that regulate their breakdown, movement, transport, and ultimate fate.</td>
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<tr>
<td>CHEM A471</td>
<td>Immunochemistry</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Prequisites: BIOL A340 and CHEM A321. Crosslisted with: BIOL A471. A study of the immune response including the biochemistry of antibodies, cellular and molecular events triggered by antigenic stimulation, regulation, immunopathology, transplantation, cancer and immunochemical techniques.</td>
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<tr>
<td>CHEM A492</td>
<td>Undergraduate Seminar</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>Registration Restrictions: Admission to the chemistry degree program and faculty permission.</td>
<td>May be stacked with: CHEM A692. Special Note: Topics in chemistry and biochemistry presented by undergraduate students.</td>
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<tr>
<td>CHEM A498</td>
<td>Individual Research</td>
<td>3 CR</td>
<td>0 + 9</td>
<td>Registration Restrictions: Department permission. Special Fees. Research projects to be arranged with individual faculty members who will direct the study of research.</td>
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<tr>
<td>CHEM A634</td>
<td>Advanced Instrumental Methods</td>
<td>4 CR</td>
<td>2 + 6</td>
<td>Prequisites: CHEM A212. May be stacked with: CHEM A434. Special Fees. Special Note: Not available for credit to students who have completed CHEM A434. Lectures concurrent with CHEM A434. In addition to meeting all requirements for CHEM A434, graduate students will be required to develop an instrumental method, to submit a research paper summarizing their findings, including designs for future experiments on the subject and to give a seminar on the topic.</td>
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COURSE DESCRIPTIONS

CHEM A641  Advanced Biochemistry I  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing; A course in Organic Chemistry and a course in Biology, or instructor permission.
May be stacked with: CHEM A441.
Special Note: Not available for credit to students who have taken CHEM A441.
In depth study of the structure and function of amino acids, proteins, carbohydrates, nucleic acids, lipids, and membranes.

CHEM A642  Advanced Biochemistry II  3 CR
Contact Hours: 3 + 0
Prerequisites: CHEM A641.
Registration Restrictions: Graduate standing
May be stacked with: CHEM A442.
Special Note: Not available for credit to students who have taken CHEM A442.
In depth study of the bioenergetics and the metabolic pathways of amino acids, proteins, carbohydrates, nucleic acids, and lipids.

CHEM A660  Chemical Ecotoxicology  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing
May be stacked with: CHEM A460.
Special Note: In addition to meeting all the requirements for CHEM A460, graduate students will be required to submit an extensive research proposal addressing a current problem of significant concern to ecotoxicologists. The proposal must be presented to the entire class. Not available for credit to students who have completed CHEM A460.
The study of the relationships between the observed levels of chemicals in the environment and their biological effects. Special attention will be given to persistent toxic compounds, the dependence of their fate on their physical and chemical properties, and the environmental conditions that regulate their breakdown, movement, transport and ultimate fate.

CHIN - CHINESE
Offered through the College of Arts and Sciences
Administration/Humanities Building (ADM) Suite 287, 786-4030
www.uaa.alaska.edu/languages

CHIN A101  First Year Chinese I  4 CR
Contact Hours: 4 + 0
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Introductory course for students with no previous knowledge of the Chinese language. Develops listening, speaking, reading, and writing skills in Chinese for effective communication at the elementary level. Introduces basic cross-cultural perspectives. Course conducted in Chinese.

CHIN A102  First Year Chinese II  4 CR
Contact Hours: 4 + 0
Prerequisites: CHIN A101.
Course Attributes: UAA GER Humanities Requirement.
Special Fees.

CIOS - COMPUTER INFORMATION & OFFICE SYSTEMS
Offered through the Community & Technical College
University Center (UC) Room 130, 786-6426
www.uaa.alaska.edu/ctc/computers/cios

CIOS A082  Clerical Accounting  3 CR
Contact Hours: 3 + 0 or 0 + 9
Special Fees.
Special Note: Offered as Demand Warrants.
Introduces accounting fundamentals using a service business to illustrate the basic accounting equation, closing the books, and preparing financial statements.

CIOS A101  Keyboarding  3 CR
Contact Hours: 3 + 0 or 0 + 9
Special Fees.
Special Note: Credit will not be counted for both CIOS A101 and (CIOS A101A and CIOS A101B and CIOS A101C).
Introduces keyboarding skills and emphasizes correct techniques and development of speed, accuracy, and proofreading. Introduces word processing concepts to produce personal and business letters, tables, and reports.

CIOS A101A  Keyboarding A: Basic Keyboarding  1 CR
Contact Hours: 1 + 0 or 0 + 3
Special Fees.
Special Note: Credit will not be counted for both CIOS A101 and (CIOS A101A and CIOS A101B and CIOS A101C).
Introduces the keyboard alphabet, number, and symbol keys. Emphasizes techniques and mechanics of keyboarding by touch.

CIOS A101B  Keyboarding B: Business Documents I  1 CR
Contact Hours: 1 + 0 or 0 + 3
Prerequisites: CIOS A101A.
Special Fees.
Special Note: Credit will not be counted for both CIOS A101 and (CIOS A101A and CIOS A101B and CIOS A101C).
Introduces keyboarding of memos, personal and business letters, and envelopes in a word processing program and continues to develop keyboarding speed and accuracy.

CIOS A101C  Keyboarding C: Business Documents II  1 CR
Contact Hours: 1 + 0 or 0 + 3
Prerequisites: CIOS A101B.
Special Fees.
Special Note: Credit will not be counted for both CIOS A101 and (CIOS A101A and CIOS A101B and CIOS A101C).
Introduces keyboarding of simple reports and tables in a word processing program and continues to develop keyboarding speed and accuracy.

CIOS A102  Keyboarding Skill Building  1 CR
Contact Hours: 0 + 3
Prerequisites: CIOS A101A.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: May be repeated with only 1 credit in each semester.
Emphasizes development of keyboarding speed and accuracy.

CIOS A103  Introduction to Personal Computers  1 CR
Contact Hours: 1 + 0 or 0 + 3
Grade Mode: Pass/No Pass.
Special Fees.
Introduces personal computers to novice users. Includes basics of start-up and using the mouse to perform Windows operations.

CIOS A108  Digital Design Fundamentals  1 CR
Contact Hours: 1 + 0 or 0 + 3
Prerequisites: CIOS A113 and CIOS A130A.
Special Fees.
Introduces design fundamentals as they apply to using desktop publishing, image editing, and web design applications to communicate through online or print media.

CIOS A113  Operating Systems: MS Windows  1 CR
Contact Hours: 1 + 0 or 0 + 3
Special Fees.
Introduces the MS Windows operating system. Includes file and disk management, the control panel, desktop, utilities, MS Windows setup, and maintenance.

CIOS A115  10-Key for Business Calculations  2 CR
Contact Hours: 0 + 6
Registration Restrictions: Proof of placement into MATH A055.
Special Fees.
Introduces the 10-key touch control method to solve business-related calculations while developing speed and accuracy.

CIOS A116  Business Calculations  3 CR
Contact Hours: 3 + 0 or 0 + 9
Prerequisites: [MATH A054 with minimum grade of C or ASSET Numerical Skills with score of 43].
Special Fees.
Introduces business calculations and use of calculators by touch to solve problems in bank records, payroll, trade and cash discounts, mark-up and markdown, interest, consumer credit, depreciation, inventory, financial statements, insurance, and taxes.
CIOS A118  Payroll Procedures  2 CR
Contact Hours:  2 + 0 or 0 + 6
Special Fees.
Introduces payroll procedures including calculating various types of payroll, keeping payroll records, federal laws, and reporting procedures.

CIOS A120A  Bookkeeping Software Applications I: QuickBooks  1 CR
Contact Hours:  1 + 0 or 0 + 3
Prerequisites: CIOS A101A and CIOS A113.
Special Fees: Special Note: Knowledge of bookkeeping principles is recommended.
Introduces the QuickBooks accounting program. Covers basic bookkeeping procedures for company setup and maintenance, data input for check register, accounts receivable, accounts payable, banking, and sales tax.

CIOS A120B  Bookkeeping Software Applications I: Quicken  1 CR
Contact Hours:  1 + 0 or 0 + 3
Prerequisites: CIOS A101A and CIOS A113.
Special Fees.
Introduces the Quicken personal accounting program. Covers the basic commands and functions needed to create, manipulate, and print reports for a variety of personal business and investment applications.

CIOS A125A  Electronic Communications I: MS Outlook  1 CR
Contact Hours:  1 + 0 or 0 + 3
Prerequisites: CIOS A101A and CIOS A113.
Special Fees.
Introduces electronic communication and time management features of Microsoft Outlook.

CIOS A130A  Word Processing I: MS Word  1 CR
Contact Hours:  1 + 0 or 0 + 3
Prerequisites: CIOS A101A or concurrent enrollment).
Special Fees.
Introduces fundamentals, concepts, and applications of word processing. Students learn basic commands needed to create, format, edit, and print documents.

CIOS A130B  Word Processing I: WordPerfect  1 CR
Contact Hours:  1 + 0 or 0 + 3
Prerequisites: CIOS A101A or concurrent enrollment).
Special Fees:
Introduces fundamentals, concepts, and applications of word processing. Students learn basic commands needed to create, format, edit, and print documents.

CIOS A135A  Spreadsheets I: MS Excel  1 CR
Contact Hours:  1 + 0 or 0 + 3
Prerequisites: CIOS A101A or concurrent enrollment) and (CIOS A113 or concurrent enrollment).
Special Fees:
Introduces fundamental concepts in the design and use of spreadsheets. Includes basic commands, formulas and functions, and inserting of charts, objects, and hyperlinks.

CIOS A140A  Databases I: MS Access  1 CR
Contact Hours:  1 + 0 or 0 + 3
Prerequisites: CIOS A101A and CIOS A113.
Special Fees.
Introduces the fundamentals and concepts of creating a relational database including tables, queries, forms, and reports.

CIOS A146  Internet Concepts and Applications  2 CR
Contact Hours:  1 + 2 or 0 + 4
Prerequisites: CIOS A101A and CIOS A113.
Special Fees.
Introduces and applies Internet concepts, tools, and applications. Includes use of electronic mail, search strategies for research, academic, and personal use, the study of security and ethics issues, and new Internet technologies.

CIOS A150A  Presentations: MS PowerPoint  2 CR
Contact Hours:  1 + 2 or 0 + 4
Prerequisites: CIOS A101A and CIOS A113.
Special Fees.
Covers presentation software and design techniques for creating professional presentations. Incorporates tools for enhancing presentations with various objects.

CIOS A152A  Digital Imaging Concepts and Applications: Photoshop  3 CR
Contact Hours:  3 + 0
Prerequisites: (CIOS A108 or concurrent enrollment) and (CIOS A130A or concurrent enrollment) and (CIOS A146 or concurrent enrollment).
Special Fees.
Introduces the fundamentals, concepts, and applications of digital imaging techniques, including basic digital design fundamentals, enhancing images, and creating images for use in print or on the web.

CIOS A153A  Website Design: HTML  1 CR
Contact Hours:  1 + 0 or 0 + 3
Prerequisites: CIOS A146.
Special Fees.
Introduces designing web pages and documents using Hypertext Markup Language (HTML). Emphasizes sound design principles and the use of CSS for formatting and layout.

CIOS A153B  Website Design: Dreamweaver  3 CR
Contact Hours:  3 + 0
Prerequisites: CIOS A130A and CIOS A146 and (CIOS A152A or concurrent enrollment) or (CIOS A156 or concurrent enrollment).
Special Fees.
Introduces fundamentals of web design using the Dreamweaver application. Emphasizes sound design principles and the use of CSS for formatting and layout.

CIOS A154A  Desktop Publishing I: PageMaker  1 CR
Contact Hours:  1 + 0 or 0 + 3
Prerequisites: CIOS A101A.
Special Fees.
Introduces planning, designing, and creation of a website. Covers basic Microsoft FrontPage commands and functions.

CIOS A154B  Desktop Publishing I: MS Publisher  1 CR
Contact Hours:  1 + 0 or 0 + 3
Prerequisites: CIOS A101A.
Special Fees.
Introduces fundamentals and concepts of desktop publishing and design elements used to create a variety of documents for publication, including flyers, brochures, and newsletters.

CIOS A156  Web Graphics: Fireworks  1 CR
Contact Hours:  1 + 0 or 0 + 3
Prerequisites: CIOS A130A and CIOS A146 and (CIOS A153A or concurrent enrollment) or (CIOS A155B or concurrent enrollment).
Special Fees.
Introduces the concepts and skills for creating and optimizing web graphics such as animated GIFs, slices, and image maps.

CIOS A160  Business English  3 CR
Contact Hours:  3 + 0
Prerequisites: [PRPE A086 with minimum grade of C or ASSET Writing Skills with score of 40].
Special Fees.
Introduces and applies business writing principles, tools, and applications. Analyzes sentence structure and usage in business communications for application to proofreading and editing documents.

CIOS A161A  Proofreading  2 CR
Contact Hours:  2 + 0 or 0 + 4
Registration Restrictions: Proof of placement into ENGL A111 and keyboarding skills of 30 net words per minute or higher.
Special Fees.
Introduces proofreading techniques applied to business communication. Develops skills in proofreading for content, usage, grammar, punctuation, and spelling.
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<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Special Fees</th>
</tr>
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<tbody>
<tr>
<td>CIOS A162A</td>
<td>Shorthand</td>
<td>3 CR</td>
<td>3 + 0 or 0 + 9</td>
<td>CIOS A101.</td>
<td>Special Fees</td>
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<td></td>
<td>Introduces an alphabetic shorthand system designed for fast note taking or dictation.</td>
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<tr>
<td>CIOS A164</td>
<td>Filing</td>
<td>1 CR</td>
<td>1 + 0 or 0 + 3</td>
<td>CIOS A101B and CIOS A130A.</td>
<td>Special Fees</td>
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<td>Introduces filing terminology, techniques, and ARMA (American Records Management Association) filing rules as they apply to alphabetic, numeric, subject, and geographic filing systems.</td>
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<tr>
<td>CIOS A165</td>
<td>Office Procedures</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>CIOS A101B and CIOS A130A.</td>
<td>Special Fees</td>
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<td>Introduces the duties and responsibilities of office employees in the following areas: mail, records management, office communications, reprographics, travel, meetings, conferences, and employment procedures.</td>
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<tr>
<td>CIOS A190</td>
<td>Selected Topics in Office Technology</td>
<td>1-3 CR</td>
<td>1-3 + 0 or 0 + 3-9</td>
<td>CIOS A101B and CIOS A130A.</td>
<td>Special Fees</td>
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<td>Special Note: Prerequisites will vary with topic.</td>
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<td>Covers various topics in office technology. Course content is determined by specific student or industry needs.</td>
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<tr>
<td>CIOS A201A</td>
<td>Document Processing</td>
<td>3 CR</td>
<td>3 + 0 or 0 + 9</td>
<td>CIOS A101A.</td>
<td>Special Fees</td>
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<td></td>
<td>Applies keyboarding and word processing skills to letters, mail merges, tabulations, reports, business forms, and other office documents while building speed and accuracy.</td>
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<tr>
<td>CIOS A207</td>
<td>Machine Transcription</td>
<td>1 CR</td>
<td>0 + 3</td>
<td>CIOS A101B or CIOS A101C and CIOS A161A.</td>
<td>Special Fees</td>
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<td>Applies word processing and proofreading skills to create quality documents using transcription equipment. Designed for students with no previous transcription experience.</td>
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<tr>
<td>CIOS A208</td>
<td>Medical Transcription</td>
<td>3 CR</td>
<td>0 + 9</td>
<td>CIOS A101B or CIOS A101C and CIOS A161A.</td>
<td>Special Fees</td>
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<td></td>
<td>Applies word processing and proofreading skills to machine transcription of medical dictation to produce accurate, quality documents. Designed for students with no previous transcription experience. Students will learn needed medical terminology.</td>
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<td>CIOS A209A</td>
<td>Legal Transcription</td>
<td>1-3 CR</td>
<td>0 + 3-9</td>
<td>CIOS A160 and CIOS A201A.</td>
<td>Special Fees</td>
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<td>Registration Restrictions: Prerequisite or demonstrated equivalent skill and speed of 45 wpm.</td>
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<td></td>
<td>Applies word processing and business English skills to machine transcription of legal dictation to produce accurate legal documents. Designed for students with no previous transcription experience.</td>
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<tr>
<td>CIOS A220A</td>
<td>Bookkeeping Software Applications II: QuickBooks</td>
<td>2 CR</td>
<td>2 + 0 or 0 + 6</td>
<td>CIOS A120A.</td>
<td>Special Fees</td>
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<td></td>
<td>Applies skills learned in CIOS A120A to more advanced applications of creating financial reports, period-end procedures, payroll, inventory, jobs and time tracking, accounting issues, and integration with other software.</td>
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<tr>
<td>CIOS A230A</td>
<td>Word Processing II: MS Word</td>
<td>2 CR</td>
<td>2 + 0 or 0 + 6</td>
<td>CIOS A130A.</td>
<td>Special Fees</td>
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<td></td>
<td>Presents intermediate and advanced word processing and desktop publishing. Includes styles, graphics, merging documents, object linking and embedding, publishing as a web page, working with master documents, indexes, table of contents, on-screen business forms and macros.</td>
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<tr>
<td>CIOS A235A</td>
<td>Spreadsheets II: MS Excel</td>
<td>2 CR</td>
<td>2 + 0 or 0 + 6</td>
<td>CIOS A135A.</td>
<td>Special Fees</td>
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<td>Presents concepts and techniques for using Excel to solve problems and make decisions. Topics include design and construction of spreadsheets and templates, macros, data exchange, database features, enhancing charts, and other advanced functions.</td>
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<tr>
<td>CIOS A240A</td>
<td>Databases II: MS Access</td>
<td>2 CR</td>
<td>2 + 0 or 0 + 6</td>
<td>CIOS A140A.</td>
<td>Special Fees</td>
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<td></td>
<td>Presents concepts and techniques for using Access databases to solve problems and make decisions. Includes advanced features of queries, forms, filters, relationships, and integration with other applications.</td>
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<tr>
<td>CIOS A241</td>
<td>Integrated Applications</td>
<td>3 CR</td>
<td>3 + 0 or 0 + 9</td>
<td>CIOS A151A and CIOS A230A and CIOS A235A and CIOS A240A.</td>
<td>Special Fees</td>
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<td></td>
<td>Applies the powerful integration capabilities of word processing, spreadsheet, database, and other applications, including the World Wide Web. Builds skill in application integration through a variety of projects that include using critical thinking, work organization, time management, and teamwork skills.</td>
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<tr>
<td>CIOS A251A</td>
<td>Desktop Publishing Concepts and Applications: InDesign</td>
<td>3 CR</td>
<td>3 + 0 or 0 + 9</td>
<td>CIOS A101B or concurrent enrollment) and (CIOS A130A or concurrent enrollment).</td>
<td>Special Fees</td>
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<td></td>
<td>Applies fundamental digital design techniques and the utilization of desktop publishing software to generate professional publications.</td>
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<tr>
<td>CIOS A254A</td>
<td>Desktop Publishing II: PageMaker</td>
<td>2 CR</td>
<td>2 + 0 or 0 + 6</td>
<td>CIOS A154A.</td>
<td>Special Fees</td>
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<td></td>
<td>Applies skills learned in CIOS A154A to more advanced desktop publishing concepts and techniques. Presents design techniques and the use of desktop publishing software to generate sophisticated publications. Topics include scanning, graphic formats, typography, and integration with other applications.</td>
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<tr>
<td>CIOS A254B</td>
<td>Desktop Publishing II: MS Publisher</td>
<td>2 CR</td>
<td>2 + 0 or 0 + 6</td>
<td>CIOS A154B.</td>
<td>Special Fees</td>
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<td></td>
<td>Applies skills learned in CIOS A154B to more advanced desktop publishing concepts and techniques. Presents design techniques and the use of desktop publishing software to generate sophisticated publications. Topics include scanning, graphic formats, typography, and integration with other applications.</td>
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<tr>
<td>CIOS A255</td>
<td>Multimedia Applications</td>
<td>3 CR</td>
<td>3 + 0 or 0 + 9</td>
<td>CIOS A130A or CIOS A130B and CIOS A135A and CIOS A150A.</td>
<td>Special Fees</td>
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<td></td>
<td>Applies computer skills to learn how to manipulate sound, digital video, and digital photography to create a multimedia presentation.</td>
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<tr>
<td>CIOS A259</td>
<td>Preparing Electronic Documents: Adobe Acrobat</td>
<td>1 CR</td>
<td>1 + 0 or 0 + 3</td>
<td>CIOS A130A and (CIOS A146 or concurrent enrollment).</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Covers publishing documents in portable document format, and designing and creating forms and documents that can be emailed, uploaded, and accessed on the World Wide Web, placed on intranet file systems, or permanently stored on various media storage devices.</td>
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<tr>
<td>CIOS A260A</td>
<td>Business Communications</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>CIOS A141.</td>
<td>Special Fees</td>
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<td>Applies communication principles to creating business messages that involve problem solving and human relations issues. Topics include communication foundations, the writing process, workplace correspondence and reporting data, and communicating both personally and digitally.</td>
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</table>
CIS A261A  Interpersonal Skills in Organizations  3 CR
Contact Hours:  3 + 0
Prerequisites: CIOS A165.
Special Fees.
- Examines theories and practices of human behavior in the workplace. Emphasizes leadership theory, problems in communication and motivation, and interpersonal skills that enable the ability to function successfully with others in an organization.

CIOS A262A  Professional Development  3 CR
Contact Hours:  3 + 0
Special Fees.
- Examines how to assess personal talents and career goals to develop appropriate cover letters, resumes, and portfolios. Emphasizes job search techniques, preparing to be successful during interviews and how to be successful on the job.

CIOS A264A  Records Management  2 CR
Contact Hours:  2 + 0 or 0 + 6
Prerequisites: CIOS A140A and CIOS A164.
Special Fees.
- Applies principles learned in CIOS A164 to management of information and records. Covers the field of records management, legal and ethical issues, and controls and technology related to creation, use, maintenance, protection, retrieval, and disposition of paper and electronic records.

CIOS A265  Office Management  3 CR
Contact Hours:  3 + 0 or 0 + 9
Prerequisites: CIOS A165 and CIOS A260A.
Special Fees.
- Examines workplace trends, management techniques, communication, conflict resolution, ethics, diversity, technology, legal issues, and the changing roles of the administrative professional.

CIOS A267  Law Office Procedures: Client Documents  3 CR
Contact Hours:  3 + 0
Prerequisites: CIOS A201A and CIOS A230A or CIOS A230B.
Special Fees.
Special Note: Students are encouraged to complete the complementary course, CIOS A201A.
- Applies word processing and computer skills to preparation of legal documents in the areas of corporate, family, probate, real estate, and bankruptcy law with emphasis on accuracy, style, and understanding the purpose of the documents. Studies legal procedures and legal vocabulary in these areas and examines law office organization and legal ethics.

CIOS A269  Alaska Rules of Civil Procedures  3 CR
Contact Hours:  3 + 0
Prerequisites: CIOS A266.
- Studies Alaska Rules of Civil Procedure and Alaska Rules of Appellate Procedure in depth as they apply particularly to lawyers' assistants working with litigation documents.

CIOS A270  Project Management Fundamentals  2 CR
Contact Hours:  2 + 0
Special Fees.
- Introduces project management fundamentals and develops skills required to contribute as a project team member and leader of small projects that are related to a student's area of technical expertise. Topics include project planning and design, project team skills, project implementation and reporting, and project completion.

CIOS A276A  Independent Project  1-3 CR
Contact Hours:  0 + 3-9
Registration Restrictions: 12 credits in CIOS courses and instructor permission.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Advanced knowledge of CIOS topics required.
- Focuses on developing, implementing and completing a project based on a current business need or issue. Students work closely with faculty to produce an end product and report.

CIOS A295  Office Internship  1-3 CR
Contact Hours:  0 + 3-9
Prerequisites: CIOS A165.
Registration Restrictions: Minimum of 12 CIOS credits and instructor permission.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Requires 45 hours of work experience for each credit.
- Places students in business offices related to their educational program and occupational objectives. Includes coordination with faculty coordinator.

CIS - COMPUTER INFORMATION SYSTEMS

Offered through the College of Business & Public Policy
Edward & Cathryn Rasmuson Hall (RH), Room 309, 786-4100
www.cbpp.uaa.alaska.edu/cis.asp
Students taking any ACCT, BA, CIS, ECON, LOGOP, LOG, or PADM course will be charged a single lab fee of $25 for the semester. Applies to Elmendorf AFB or Fort Richardson classes only when specifically noted on UAAonline. Does not apply to Chugiak-Eagle River classes.

CIS A105  Introduction to Personal Computers and Application Software  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Keyboarding skill of 30 wpm or better is recommended.
- Introduction to computer literacy emphasizing basic hands-on use of personal computers, operating systems, and application software to include word processing, spreadsheets, databases, presentation graphics, and the Internet.

CIS A110  Computer Concepts in Business  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Recommended: MATH A105, CIS A105, familiarity with personal computers and basic software applications, and keyboarding of at least 30 wpm.
- Introduction to computing concepts and productivity software from an end user's perspective. Course covers hardware, software, the information processing cycle, beginning programming concepts, and personal computer software packages. The course emphasizes solving business problems using spreadsheet and database applications.

CIS A185  Introduction to Programming Business Applications  3 CR
Contact Hours:  3 + 0
Prerequisites: CIS A110 and MATH A107 or MATH A172.
Registration Restrictions: If prerequisite is not satisfied, approved UAA mathematics placement test score and current programming experience are required.
- Special Note: Class requires 6-hour midterm and 8-hour final scheduled by department on weekend. Specific dates announced in class.
- Business programming concepts and techniques required to produce business reports, process files, program/code table handling and table look-up routines, and modularized large programs. Emphasizes structured program design, program testing and documentation for production.

CIS A201  Programming Business Applications  4 CR
Contact Hours:  4 + 0
Prerequisites: CIS A185.
Registration Restrictions: If prerequisite is not satisfied, approved UAA mathematics placement test score and current programming experience are required.
- Special Note: Class requires 6-hour midterm and 8-hour final scheduled by department on weekend. Specific dates announced in class.
- Training and practice in writing programs for business applications using a current programming language. Emphasis on structured and object-oriented design, program testing and certification, and documentation for production. Students analyze and solve current business problems.

CIS A295  Computer Programming Internship  1-6 CR
Contact Hours:  0 + 3-18
Prerequisites: CIS A185 with minimum grade of C.
Registration Restrictions: Department permission required. Student must be in good standing in the College of Business and Public Policy. Cumulative GPA of 2.75 or higher.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Requires 75 hours of work experience for each credit. May be repeated once for credit. Maximum of 3 internship credits may be used to meet degree requirements.
- Computer programming and/or end-user support work to include maintenance of information equipment, networks, and software experience in a faculty-approved position.

CIS A305  Managerial Presentations  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A212 and CIS A110.
Registration Restrictions: Admission to upper-division standing.
- Focuses on quality managerial communications in a business environment. Uses computer software to create and refine presentation visuals and written assignments. Course strategies and organizational plans for composing business communications; for creating attractive documents and visuals; and how to effectively use projected visuals in oral presentations.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
<th>Contact Hours:</th>
<th>Prerequisites:</th>
<th>Registration Restrictions:</th>
<th>Course Attributes:</th>
<th>Grade Mode:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS A310 Analysis of Business Systems</td>
<td>3 + 0</td>
<td>CIS A185 and CIS A305.</td>
<td>Completion of all GER Tier 1 (basic college-level skills) courses and Junior-level standing.</td>
<td>UAA GER Integrative Capstone.</td>
<td>Pass/No Pass.</td>
</tr>
<tr>
<td>CIS A326 Information Age Literacy</td>
<td>3 + 0</td>
<td>COMM A111 or COMM A241.</td>
<td>Completion of GER Tier 2 (beginning) courses and Junior-level standing.</td>
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<tr>
<td>CIS A330 Database Management Systems</td>
<td>3 + 0</td>
<td>CIS A185 with minimum grade of C.</td>
<td>Completion of GER Tier 1 (basic college-level skills) courses and Junior-level standing.</td>
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</tr>
<tr>
<td>CIS A345 Managing Data Communications and Computer Networks</td>
<td>3 + 0</td>
<td>CIS A185.</td>
<td>Completion of GER Tier 1 (basic college-level skills) courses and Junior-level standing.</td>
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</tr>
<tr>
<td>CIS A360 Object-Oriented Programming in .Net</td>
<td>3 + 0</td>
<td>CIS A201 and CIS A305 and (CIS A330 or concurrent enrollment) and CIS A376.</td>
<td>Completion of GER Tier 1 (basic college-level skills) courses and Junior-level standing.</td>
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<tr>
<td>CIS A361 Advanced Programming for Business Applications</td>
<td>3 + 0</td>
<td>CIS A210.</td>
<td>Completion of GER Tier 1 (basic college-level skills) courses and Junior-level standing.</td>
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<tr>
<td>CIS A365 Object-Oriented Programming</td>
<td>3 + 0</td>
<td>CIS A210 with minimum grade of C.</td>
<td>Completion of GER Tier 1 (basic college-level skills) courses and Junior-level standing.</td>
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<tr>
<td>CIS A376 Management Information Systems</td>
<td>3 + 0</td>
<td>CIS A305 or COMM A241.</td>
<td>Completion of GER Tier 1 (basic college-level skills) courses and Junior-level standing.</td>
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</tr>
<tr>
<td>CIS A390 Selected Topics in Management Information Systems</td>
<td>1-6 CR</td>
<td>CIS A185 with minimum grade of C.</td>
<td>Completion of GER Tier 1 (basic college-level skills) courses and Junior-level standing.</td>
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<tr>
<td>CIS A410 Project Management</td>
<td>3 + 0</td>
<td>CIS A201 and CIS A376.</td>
<td>Completion of GER Tier 1 (basic college-level skills) courses and Junior-level standing.</td>
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</tr>
<tr>
<td>CIS A420 Consulting and Training End Users</td>
<td>3 + 0</td>
<td>CIS A201 and CIS A376.</td>
<td>Completion of GER Tier 1 (basic college-level skills) courses and Junior-level standing.</td>
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</tr>
<tr>
<td>CIS A421 Multimedia Authoring</td>
<td>3 + 0</td>
<td>CIS A185 and CIS A376.</td>
<td>Completion of GER Tier 1 (basic college-level skills) courses and Junior-level standing.</td>
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<tr>
<td>CIS A430 Client-Server Programming for Business Applications</td>
<td>3 + 0</td>
<td>CIS A201 with minimum grade of C and CIS A330 with minimum grade of C and CIS A376 with minimum grade of C.</td>
<td>Completion of GER Tier 1 (basic college-level skills) courses and Junior-level standing.</td>
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</tbody>
</table>
### COURSE DESCRIPTIONS

**CIS A445**  
**Advanced Network Management**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: CIS A345 and CIS A376.  
Registration Restrictions: Admission to upper division standing.  
Provides practical knowledge about the installation, configuration, administration, and operation of networks in local area and wide area settings. The operation and interconnectivity between commercially available software will be explored as well as the utilization of different communication protocols on the same network.

**CIS A460**  
**Web Development in the .Net Environment**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: CIS A360 and CIS A376.  
Registration Restrictions: Admission to upper division standing.  
Development of Web sites, portals, applications, and services within the .Net environment. Uses ASP.Net as the development environment; XML, XSLT, schemas and ADO.Net for database processing; and either C# or Visual Basic for server-side code. Installation, maintenance security and other server issues will be covered.

**CIS A489**  
**Systems Design, Development and Implementation**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: CIS A376 and CIS A410 and [CIS A365 or CIS A430 or CIS A445 or CIS A460].  
Registration Restrictions: Admission to upper division standing.  
Engages students in the design, development and implementation of an information system project. Students working in small teams integrate and apply MIS concepts and skills, conduct independent research, develop an implementable system for a community organization, and present written and oral reports.

**CIS A495**  
**Systems Analyst/User Support Internship**  
1-6 CR  
Contact Hours: 0 + 3-18  
Prerequisites: CIS A201 with minimum grade of C and CIS A376 with minimum grade of C.  
Registration Restrictions: Department permission required. Student must be in good standing in the College of Business and Public Policy. Cumulative GPA of 2.75 or higher. Grade Mode: Pass/No Pass.  
Special Fees.  
Special Note: Requires 75 hours of work experience for each credit. May be taken more than once for credit. Maximum of 3 internship credits may be used to meet degree requirements.  
Systems Analyst or user-support work experience in a faculty approved position.

**CIS A498**  
**Individual Research Project**  
1-6 CR  
Contact Hours: 1 + 0  
Prerequisites: CIS A201 with minimum grade of C and CIS A376 with minimum grade of C.  
Registration Restrictions: Admission to upper division standing.  
Special Note: May be taken more than once for a maximum of 3 elective credits. Offered as demand warrants. In a simulated professional environment, students complete an MIS project, prepare a project report, and make a managerial presentation.

**CIS A690**  
**Selected Topics in Management Information Systems**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: CIS A692.  
Registration Restrictions: Graduate standing.  
Special Note: May be repeated with change of subtitle/topic. Check course schedule for specific titles being offered. Maximum of 9 elective credits may be used for the MBA degree.  
Study of specific current issues, techniques, and trends in Management Information Systems (MIS).

**CIS A692**  
**Management Information Systems Seminar**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing  
Analysis of current and future implications of information systems (IS) and emerging technologies for managers and decision makers. Focuses on the interaction of technology with business organizations including e-commerce, enterprise IS, and globalization issues.

### CM - CONSTRUCTION MANAGEMENT

**CM A101**  
**Fundamentals of CADD for Building Construction**  
4 CR  
Contact Hours: 2 + 4  
Registration Restrictions: Proof of eligibility for placement into MATH A105 and ENGL A111.  
Crosslisted with: AET A101.  
Special Fees.  
Introduces basic CADD (computer-aided drafting and design) skills necessary in civil, architectural, structural, mechanical, and electrical drafting within the construction industry. Defines the working relationship between design and construction professionals and drafters/technicians.

**CM A102**  
**Methods of Building Construction**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Proof of eligibility for placement into MATH A105 and ENGL A111.  
Crosslisted with: AET A102.  
Special Fees.  
Introduces basic knowledge of building materials, technical specifications, techniques, and systems. Outlines structural systems, construction processes, and assemblies. Includes a field project involving student team research of current Alaskan building type.

**CM A123**  
**Codes and Standards**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: CM A101 and CM A102.  
Crosslisted with: AET A123.  
Special Fees.  
Provides an introduction and overview of the fundamental provisions of the building codes used for plan review, life-safety evaluation of buildings, and community development.

**CM A142**  
**Mechanical and Electrical Technology**  
4 CR  
Contact Hours: 3 + 2  
Prerequisites: CM A101 and CM A102.  
Crosslisted with: AET A142.  
Special Fees.  
Introduces the basic mechanical and electrical systems required in all buildings for the safety, health, comfort, and convenience of the occupants. Emphasizes design criteria, code requirements, and interpretation of construction drawings.

**CM A163**  
**Building Construction Cost Estimating**  
3 CR  
Contact Hours: 2 + 2  
Prerequisites: CM A101 and CM A102 and MATH A105.  
Special Fees.  
Presents methods and techniques for preparing accurate cost estimates for building construction projects. Emphasizes quantity takeoffs, unit pricing, productivity factors, bidding and negotiation procedures, and cost reporting.

**CM A201**  
**Construction Project Management I**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: CM A101 and CM A102.  
Special Fees.  
Examines construction project management methods and processes. Includes project delivery systems introduction and contract types; contract administration procedures; jobsite planning and logistics; and managing labor, materials, and equipment.

**CM A202**  
**Project Planning and Scheduling**  
3 CR  
Contact Hours: 2 + 2  
Prerequisites: CM A201 and MATH A105.  
Special Fees.  
Examines concepts and methods for planning and scheduling of construction projects. Includes identifying work elements, estimating activity durations, preparing network schedules and schedule updates, analyzing planned vs. actual project progress and use of computer scheduling software.

**CM A205**  
**Construction Safety**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: CM A201.  
Special Fees.  
Examines safety and health practices for the construction industry. Includes developing and implementing construction project site-specific safety plans, analyzing the laws and regulations that govern safety, evaluating construction site hazards and environmental conditions, and incident investigation and reporting.
CM A213  Civil Technology  4 CR
Contact Hours:  2 + 4
Prerequisites: CM A101 and CM A102.
Crosslisted with: AET A213.
Special Fees.
Outlines elements of civil design, including soils and soil mechanics, foundations, roads, utilities using local, state, and federal regulations. Students will also be introduced to elements of construction surveying.

CM A231  Structural Technology  4 CR
Contact Hours:  2 + 4
Prerequisites: CM A101 and CM A102.
Crosslisted with: AET A231.
Special Fees.
Examines structural theory and the physical principles that underlie structural behavior. Includes the use of materials in a manner to maintain structural stability against the natural forces of gravity, wind, snow, and earthquakes. Covers connection detailing and code requirements for wood, steel, and reinforced concrete.

CM A263  Civil Construction Cost Estimating  3 CR
Contact Hours:  2 + 2
Prerequisites: CM A201 and MATH A105.
Special Fees.
Presents methods and techniques for preparing accurate cost estimates for earthwork, roads, highways, underground utilities, and site work. Emphasizes quantity surveys, unit costs, production factors, bidding, and construction equipment management.

CM A295  Construction Management Internship  3 CR
Contact Hours:  0 + 15
Registration Restrictions: Departmental approval.
Grade Mode: Pass/No Pass.
Special Fees.
Places students in building construction offices related to student educational program and occupational objectives. Direct supervision by contractor professional, program faculty, and Career Services coordinator.

CM A301  Construction Project Management II  3 CR
Contact Hours:  3 + 0
Prerequisites: CM A201 and ENGL A111.
Special Fees.
Analyzes advanced subjects in construction project management. Includes project procurement, project delivery methodology, managing project change, quality control, claims and disputes, and labor relations.

CM A313  Soils in Construction  3 CR
Contact Hours:  3 + 0
Prerequisites: CM A213 and MATH A107.
Special Fees.
Examines the properties and classifications of soils encountered and used in construction. Includes soils investigation, soils stress analysis, embankment construction, and excavation works and supports.

CM A331  Statics and Strength of Materials  3 CR
Contact Hours:  3 + 0
Prerequisites: [AET A231 or CM A231] and [MATH A108 or MATH A109] and PHYS A123 and PHYS A123L.
Special Fees.
Analyzes forces and the mechanics of materials for structural elements and structural assemblies. Includes the fundamentals of statics; stress, strain, and deformation; shear and bending moment stresses in beams; and column analysis.

CM A401  Construction Law  3 CR
Contact Hours:  3 + 0
Prerequisites: CM A301 and [BA A241 or JUST A241].
Special Fees.
Examines the significant legal topics affecting general contractors, subcontractors, project owners and surety bond agents. Integrates legal issues with design and construction services, focusing on risk management and liability awareness.

CM A422  Sustainability in the Built Environment  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses, junior standing, plus completion of one Tier 2 Natural Science course and one other Tier 2 GER course.
Course Attributes: UAA GER Integrative Capstone.
Special Fees.
Examines sustainability concepts and the implementation of sustainability principles in the design and construction of the built environment. Evaluates human-constructed development and resource preservation challenges in the context of the local and global natural environment.

CM A440  Financial Management for Construction  3 CR
Contact Hours:  3 + 0
Prerequisites: CM A301.
Special Fees.
Analyzes financial management topics relevant to the construction management professional, including the interpretation of financial statements, financial ratios, applications of engineering economy, cash flow analysis, construction financing, and cost information systems.

CM A450  Construction Management Professional Practice  3 CR
Contact Hours:  2 + 2
Prerequisites: CM A301 and CM A495.
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) requirements.
Course Attributes: UAA GER Integrative Capstone.
Special Fees.
Provides career development through self-assessment and career exploration by placement in a construction management home or field office. Intern will perform duties directly related to construction management functions.

CM A460  Construction Equipment Management and Methods  3 CR
Contact Hours:  3 + 0
Prerequisites: CM A263 and CM A313.
Special Fees.
Examines the significant legal topics affecting general contractors, subcontractors, project owners and surety bond agents. Integrates legal issues with design and construction services, focusing on risk management and liability awareness.

CM A495  Advanced Construction Management Internship  3 CR
Contact Hours:  1 + 15
Registration Restrictions: Departmental approval.
Special Fees.
Provides career development through self-assessment and career exploration by placement in a construction management home or field office. Intern will perform duties directly related to construction management functions.

CNT - COMPUTER & NETWORK TECHNOLOGY
Offered through the Community and Technical College
University Center (UCT) 130, 786-6426
www.uaa.alaska.edu/ctc/computers/tele

CNT A160  PC Operating Systems  3 CR
Contact Hours:  2 + 3
Special Fees.
Develops basic understanding of command line, desktop, and server operating systems. Includes computer programming, architecture, and hardware necessary to understand the operating system interactions.

CNT A161  PC Architecture  1 CR
Contact Hours:  1 + .5
Special Fees.
Covers basic hardware associated with microcomputer operation, including, but not limited to, memory, motherboards, CPUs, chipsets, buses, expansion slots, and resource allocation.

CNT A162  PC Building, Upgrading, and Architecture  3 CR
Contact Hours:  2 + 2
Special Fees.
Describes how to evaluate, install, and troubleshoot available software and hardware computer equipment. Covers basic hardware associated with microcomputer operation, including, but not limited to, motherboards, CPUs, chipsets, memory, buses, expansion slots and resource allocations. Also demonstrates and practices PC disassembly, assembly, software installations, safety and maintenance.

CNT A163  Introduction to Networking  1 CR
Contact Hours:  1 + .5
Special Fees.
Introduces the concepts of networking protocols, communication techniques, and hardware components of LAN, MAN, and WAN networks.
COURSE DESCRIPTIONS

CNT A164  Network Cabling 1 CR
Contact Hours: 1 + .5
Special Fees.
Introduces the different physical mediums and their characteristics associated with networking. This will include, but not be limited to, types of copper and fiber optic cables, connections, testing, cabling planning, and layout.

CNT A165  Customer Service Fundamentals 1 CR
Contact Hours: 1 + 0
Special Fees.
Introduces basic customer service principles, including relationships, perceptions, telephone techniques, quality, ethics, record keeping, interpersonal relationships, and teamwork.

CNT A170  Cisco Academy Network Fundamentals 4 CR
Contact Hours: 3 + 2.5
Special Fees.
Covers networking fundamentals and develops basic skills in designing, installing, and troubleshooting local area networks. Topics include cabling, cabling closets, Ethernet technologies, management devices, protocols, sub-netting, network device selection, installation and troubleshooting.

CNT A180  PC Interfacing, Peripherals, Storage and A+ 4 CR
Contact Hours: 3 + 2
Prerequisites: CNT A160 and CNT A162.
Special Fees.
Covers PC peripheral devices, auxiliary storage devices and the interfaces used to connect them to the personal computer. Also covers the fundamentals topics necessary to prepare for the Core Hardware portion of the CompTIA A+ Certification.

CNT A181  PC Auxiliary Storage 1 CR
Contact Hours: 1 + .5
Prerequisites: CNT A160 and CNT A161 and CNT A162.
Special Fees.
Introduces PC storage devices and interfaces, including, but not limited to, magnetic storage, optical storage, disk drives, drive installation, configuration, and file systems.

CNT A182  PC Peripheral Devices 1 CR
Contact Hours: 1 + .5
Prerequisites: CNT A160 and CNT A161 and CNT A162.
Special Fees.
Introduces ancillary PC hardware, including keyboards, printers, pointing devices, video displays, video capture, scanners, and digital cameras.

CNT A183  Local Area Networks 3 CR
Contact Hours: 2 + 2
Prerequisites: CNT A160 and CNT A162.
Special Fees.
Presents the fundamentals of Local Area Networking, including topologies, protocols, computer and delivery hardware, Ethernet, network operating systems, LAN assessment, and other related software. Covers the fundamental networking topics necessary to prepare for the CompTIA Net+ Exam.

CNT A184  Introduction to TCP/IP 1 CR
Contact Hours: 1 + 1
Prerequisites: CNT A183.
Special Fees.
Presents transmission control protocol/internet protocol, including structure, addressing, data transfer, software, applications, and troubleshooting.

CNT A190  Selected Topics in MOUS Certifications 1 CR
Contact Hours: 5 + 1
Prerequisites: CNT A101.
Special Note: May be repeated for credit with a change of subtitle.
Provides advanced Microsoft training leading to MOUS certifications in selected software topics from the Office 2000 suite.

CNT A210  PC Technician Fundamentals 3 CR
Contact Hours: 3 + 0
Prerequisites: CIS A105.
Introduction to the principles of personal computer hardware/software maintenance and troubleshooting. The course is designed to give the student equivalent experience of a PC technician that has been working for six months.

CNT A212  Network Technician Fundamentals 3 CR
Contact Hours: 1 + 2
Prerequisites: CNT A210.
Introduces the principles of developing, installing, maintaining and troubleshooting Peer-to-Peer, Local Area, and Wide Area Networks. Designed to serve the needs of advanced computer end-users interested in mastering broad, vendor-independent networking concepts. Provides students with the knowledge and experience required to pass the CompTIA Network+ exam.

CNT A240  Windows System Essentials 2 CR
Contact Hours: 1 + 2
Prerequisites: CNT A210.
Special Fees.
Provides an introduction to networking concepts, features, and capabilities and their implementation within the Windows environment.

CNT A241  Administering and Supporting Windows Workstations and Server 3 CR
Contact Hours: 2 + 2
Prerequisites: CNT A240.
Special Fees.
Provides concepts and skills necessary to install and configure Windows Server on stand-alone computers and on client computers that are part of a workgroup or domain.

CNT A242  Windows Network Infrastructure Administration 3 CR
Contact Hours: 1 + 2
Prerequisites: CNT A241.
Special Fees.
Provides students with the knowledge and skills to design a Microsoft Windows infrastructure associated with a Windows domain.

CNT A243  Windows Directory Services Administration 3 CR
Contact Hours: 2 + 2
Prerequisites: CNT A242.
Provides students with the knowledge and skills to design a security framework for small, medium, and enterprise networks using Microsoft Windows technologies.

CNT A245  Windows Directory Services Design 2 CR
Contact Hours: 1 + 2
Prerequisites: CNT A243.
Provides students with the knowledge and skills to design a Microsoft Windows directory services infrastructure in an enterprise network.

CNT A246  Windows Network Infrastructure Design 2 CR
Contact Hours: 1 + 2
Prerequisites: CNT A244.
Provides students with the knowledge and skills to design a Microsoft Windows networking services infrastructure design that supports the network applications required for the needs of an organization.

CNT A261  Cisco Academy Router Fundamentals 4 CR
Contact Hours: 3 + 2.5
Prerequisites: CNT A170.
Special Fees.
Provides details of Cisco routers and router interfaces, including router configuration, software controls, user modes, IP addressing, and routing protocols.

CNT A262  Computer Technical Support 2 CR
Contact Hours: 1.5 + 2
Prerequisites: CNT A165 and CNT A184.
Develops skills necessary for evaluating and implementing various technical support functions, including hardware and software needs assessments, training development, preventive maintenance, and effective communication and documentation.

CNT A264  Introduction to Information Security 3 CR
Contact Hours: 3 + 0
Prerequisites: CNT A212 or CNT A261.
Provides students with an understanding of the core concepts that relate to the practice of network security. This course will help prepare students for the CompTIA Security+ exam.
### COURSE DESCRIPTIONS

**COMM A111**  
**Fundamentals of Oral Communication**  
3 CR  
Contact Hours: 3 + 0  
Course Attributes: UAA GER Oral Communication Requirement.  
Special Fees.  
A survey of communication principles, theories, and skills including interpersonal communication, small group communication, and public speaking. Students develop oral communication skills through practice in a variety of individual activities, group activities, and individual and group presentations.

**COMM A235**  
**Small Group Communication**  
3 CR  
Contact Hours: 3 + 0  
Course Attributes: UAA GER Oral Communication Requirement.  
Special Fees.  
Study of theories and skills related to small group communication. Emphasis is on the communicative skills involved in group relationships and group decision making processes. Students will develop oral communication skills by engaging in practice in a variety of individual exercises and presentations, and group presentations.

**COMM A236**  
**Interviewing**  
3 CR  
Contact Hours: 3 + 0  
Special Fees.  
Examines theories and individual responsibilities in informational, employment and persuasive interviews. Practice of face-to-face interpersonal communication relationships through role-playing in class.

**COMM A237**  
**Interpersonal Communication**  
3 CR  
Contact Hours: 3 + 0  
Course Attributes: UAA GER Oral Communication Requirement.  
Special Fees.  
Study of theories and skills related to dyadic communication and the variables which affect it, including conflict, culture, gender, rules, and context. Students will develop oral communication skills designed to improve communication in relationships by engaging in a variety of individual exercises, individual presentations, and group presentations.

**COMM A241**  
**Public Speaking**  
3 CR  
Contact Hours: 3 + 0  
Course Attributes: UAA GER Oral Communication Requirement.  
Special Fees.  
The study of theories and skills applicable to informative, persuasive, and special occasion platform speaking. Emphasis is on effective selection, organization, and presentation of material to diverse audiences across diverse settings. Students will develop oral communication skills by engaging in a variety of exercises and individual presentations.

**COMM A305**  
**Intercultural Communication**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237.  
Explores theories, perspectives, and experiences of communication in intercultural and cross-cultural relations.

**COMM A320**  
**Debate and Deliberation**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: COMM A101 or COMM A111 or COMM A241.  
Learning to understand and discuss controversial topics. Fact-finding and presentation of information that relates to and supports one side of a controversial topic. Classroom experience in speech presentation and decision making based on factual presentations and logical conclusions.

**COMM A340**  
**Nonverbal Communication**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237 or COMM A241.  
Covers theoretical and research literature pertinent to nonverbal communication behavior. Focuses on the persuasive role that movement plays in the formal and informal communication process.

**COMM A346**  
**Oral Interpretation**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237 or COMM A241.  
Theory and practice of the art of oral interpretation to stimulate an understanding and responsiveness to prose, poetry and drama, and to develop the ability to convey to others, through oral readings, an appreciation of literature.

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**CNT A270**  
**Cisco Academy Switching and Intermediate Routing**  
4 CR  
Contact Hours: 3 + 2.5  
Prerequisites: CNT A261.  
Special Fees.  
Covers local area network management and provides skill development in managing traffic and network devices to ensure optimal throughput. Topics include router and switch configuration, advanced routing protocols, and identifying and resolving network congestion problems.

**CNT A271**  
**Cisco Academy WAN Management**  
3 CR  
Contact Hours: 2 + 3  
Prerequisites: CNT A270.  
Special Fees.  
Covers wide area networking services, design, and management. Topics include area network technology, devices, link options, frame encapsulation formats, designs, protocols and configurations.

**CNT A272**  
**Cisco Wireless Networking**  
3 CR  
Contact Hours: 2 + 2.5  
Prerequisites: CNT A261.  
Special Fees.  
Provides students with wireless networking fundamentals with focuses on the design, planning, implementation, operation and troubleshooting of wireless LANs. Also offers a comprehensive overview of wireless technologies and security.

**CNT A276**  
**Independent Project**  
3 CR  
Contact Hours: 0 + 11  
Registration Restrictions: Faculty Permission; and working knowledge of CNT topics.  
Develops, implements, and completes a project based on a relevant technological issue. Student works closely with faculty to produce an end product and report.

**CNT A280**  
**Server Operating Systems**  
3 CR  
Contact Hours: 2 + 3  
Prerequisites: CNT A184.  
Special Fees.  
Develops Windows 2000 Server operating system basics. Topics will include installation, troubleshooting, creation and administration of users and resources, and remote and internet accounts.

**CNT A281**  
**Certification Program**  
2 CR  
Contact Hours: 1 + 2  
Prerequisites: CNT A182 and CNT A184.  
Special Fees.  
Provides advanced computer and network training leading to Comp TIA A+ and Network+ certifications.

**CNT A282**  
**Work Study**  
3 CR  
Contact Hours: 0 + 11  
Registration Restrictions: Faculty Permission; and successful completion of 12 credits in the CNT program.  
Grade Mode: Pass/No Pass.  
Provides supervised workplace experience in industry settings. Integrates advanced level knowledge and practice to demonstrate skill competencies.

**CNT A290**  
**Selected Topics in Information Technology**  
1-3 CR  
Contact Hours: 0-3 + 0-6  
Special Note: Prerequisites will vary with topic.  
Provides students with intermediate to advanced knowledge in information technology-related topics.
COMM A360 Forensics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Prior experience in public speaking and faculty permission.
Special Note: May be repeated once for credit.
Advanced study for competitive speakers. Emphasis on individual competitive events: informative speaking, extemporaneous speaking, impromptu speaking, oratory, communication analysis, readers' theater, debate, and oral interpretation of literature. Students develop competition-worthy speeches with faculty guidance.

COMM A380 Theories of Human Communication 3 CR
Contact Hours: 3 + 0
Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237 or COMM A241.
Covers major communication theories, principles, and research paradigms in interpersonal, group, organizational, and public contexts.

COMM A390 Selected Topics in Communication 3 CR
Contact Hours: 3 + 0
Special Note: May be repeated once for credit with a change of subtitle.
Selected topics in communication arising from special circumstances of demand or faculty expertise. Specific titles as announced.

COMM A412 Persuasion 3 CR
Contact Hours: 3 + 0
Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237 or COMM A241.
Explores history, modern theory, and practical application of persuasion theory. A review of current literature, examination of persuasion in interpersonal, organizational, and public contexts.

CS A201 Programming Concepts I 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A101 or [MATH A107 or MATH A108 or MATH A109].
Registration Restrictions: Meet prerequisites or placement into MATH A200 or MATH A272.
Special Fees.
An introduction to object-oriented programming techniques and problem solving. This includes basic syntax; sequential, branching, and looping execution; as well as concepts such as inheritance, encapsulation, and polymorphism.

CS A202 Programming Concepts II 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A201.
Continuation of object-oriented programming. Topics include: inheritance, abstraction, interfaces, references, polymorphism, dynamic binding, class hierarchies, container classes, random access file I/O, serializability, graphical applications, event handling, UML, and object-oriented design.

CS A207 C Programming 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A105 with minimum grade of C.
Registration Restrictions: If prerequisite is not satisfied, two years of high school algebra with a minimum grade of C or Math Placement Test is required.
Training and practice in writing programs in the C programming language.
CS A221 Computer Organization and Assembly Programming 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A201.
Introduces the hardware components of computer systems, the organization of those components, and the low-level programming operations that computer systems provide. Includes fundamentals of assembly language programming.

CS A241 Computer Hardware Concepts 4 CR
Contact Hours: 3 + 3
Prerequisites: CS A201 and [MATH A107 or MATH A172]. Crosslisted with: EE A241.
Analysis and design of electronic devices used as building blocks for construction of simple digital systems. Presents formats for data storage, number systems and alphanumeric codes, and methods of implementing logical and arithmetic operations within computers. Relates hardware component’s capabilities and limitations to design requirements for computer processing, memory, and control functions.

CS A304 Object-Oriented Analysis and Modeling 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A202.
Object-oriented approach to modeling real-world entities and designing a language-independent software application or system based on that model. The course will include selected programming assignments and projects in a current object-oriented language.

CS A320 Operating Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A202.
An introductory course on operating systems. Topics covered include process management and scheduling, threads, synchronization and deadlock, memory management and virtual memory, and file systems and I/O.

CS A330 Algorithms and Data Structures 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A202.
Data structures and algorithms for their manipulation. The following topics will be covered: arrays, tables, stacks, queues, trees, linked lists, graphs, sorting, searching, and hashing.

CS A331 Programming Language Concepts 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A221 and CS A330.
Study of the syntax and semantics of widely differing programming languages. Syntax specification, block structure, binding, data structure operators, and control structures. Comparison of several programming languages. The languages will be selected to cover the major topical areas of procedural, functional, logic, and scripting languages. Programming assignments will be given in each language studied.

CS A342 Networks 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A221 and CS A330 and MATH A231.
Introduction to data transmission, information theory, and computer networks. Topics include: characteristics of transmission media, multiplexing, error detection and correction, data security, communication protocols, packet switching, analysis of various network architectures, and review of selected commercial network environments.

CS A351 Automata, Algorithms, and Complexity 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A330 and MATH A231.
Study of the theory of computing and algorithm analysis and design. Topics in computing theory include: parsing, finite automata and regular languages, pushdown automata and context-free grammars, deterministic and nondeterministic Turing machines, decidability, and computability. Topics in the algorithm domain include: algorithm analysis and complexity, searching/sorting algorithms, mathematical algorithms, and graph theoretic algorithms.

CS A360 Database Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A202.
Application of data modeling, relational database concepts and design, normalization theory, and SQL. Study of underlying data structures, and data processing architectures and implementations.

CS A385 Computer Graphics 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A330.
Introduction to the principles, techniques, and tools used in 3D computer graphics programming.

CS A395 Internship in Computing 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A202 and CS A221.
Registration Restrictions: Faculty approval.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: May be repeated for credit with a change of subtitle.

CS A401 Software Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A330.
Extends the ideas of software design and development from the introductory programming sequence to encompass the problems encountered in large-scale programs. Topics include software engineering techniques for programming large problems, advanced issues in object-oriented programming, design patterns, client-server computing, and principles of interface design.

CS A405 Artificial Intelligence 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A330 and MATH A231.
Introduction to concepts of artificial intelligence (AI). Topics include knowledge representation, predicate logic, heuristic search, natural language processing, machine learning, and a survey of AI programming languages.

CS A413 Computer and Data Security 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A202.
Fundamentals of computer and data security. Emphasizes the importance of proper data processing practices and management.

CS A431 Compilers: Concepts and Techniques 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A331.
Top-down and bottom-up parsing, lexical analyzers, symbol tables, internal forms, intermediate languages, code generation, optimization. A compiler for a rudimentary language is constructed.

CS A448 Computer Architecture 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A221 and CS A320 and CS A331.
Instruction set design and evaluation, processor implementation techniques, pipelining, vector processors, memory systems, and I/O systems. Overview of parallel and distributed systems architecture. Development and application of software for the parallel and distributed environments: algorithms, programming languages, and development tools.

CS A470 Applied Software Development Project 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A351 and CS A401 and [(ENGL A312 or concurrent enrollment) or (ENGL A414 or concurrent enrollment)].
Registration Restrictions: Senior standing, and completion of GER Tier 1 (basic college-level skills) courses.
Course Attributes: UAA GER Integrative Capstone.
Application of software development concepts, principles, and practices to a comprehensive, realistic system. The student will analyze, design, document, implement, and deliver a presentation and written report of a software system of moderate complexity under the supervision of the instructor.

CS A490 Topics in Computer Science 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Special Note: May be repeated for credit with a change of subtitle.
Advanced topics in computer science not taught in other CS course offerings.
COURSE DESCRIPTIONS

CSE A495  Internship Project  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Junior or Senior Standing with minimum of 15 credits in CS courses and faculty permission.
Special Fees:
Special Note: Enrollment will be permitted after a plan for the completion of the project is submitted to and approved by the instructor. Internships are subject to availability of placement. May be taken more than once, but only 3 credits of the upper division credit requirement for the bachelor's degree in CS may be met with CS A495. Students wishing to earn internship credits without the project requirement should enroll in CS A495.

Professional work experience in appropriate areas of computing. The student will analyze, design, and document a realistic computer science project of moderate complexity under the supervision of a qualified professional who has agreed in advance to undertake this role.

CSE A498  Individual Research  1-3 CR
Contact Hours:  1-3 + 0
Registration Restrictions: Upper division standing and faculty permission.
Special Note: May be repeated up to a maximum of six credits.

Independent research projects under the supervision of a faculty member. The result will be a paper or presentation prepared to publication standards.

CS A670  Computer Science for Software Engineers  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Faculty permission required.

In-depth survey of the theoretical underpinnings of computer science. Topics are taken from the areas of algorithms and data structures, computer architecture, networking, operating systems, computability and formal languages, programming languages, and compilers.

CS A671  Advanced Software Engineering  3 CR
Contact Hours:  3 + 0
Prerequisites: CS A401.

The study of software design as an engineering discipline. The phases of software development are covered under a variety of lifecycle models. The phases are examined across the spectrum from small scale to very large-scale projects.

CS A690  Advanced Topics in Computer Science  1-3 CR
Contact Hours:  1-3 + 0
Registration Restrictions: Faculty permission required.
Special Note: May be repeated twice for credit with a change of subtitle for a maximum of 6 credits.

Advanced topics in computer science at the graduate level.

CSE - COMPUTER SYSTEMS ENGINEERING

Offered through the School of Engineering
Engineering Building (ENG), Room 201, 786-1900
www.engr.uaa.alaska.edu

CSE A438  Design of Computer Engineering Systems  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Student must be in senior year of BSE degree program or obtain faculty permission. Completion of GER Tier 1 (Basic College-level Skills) courses. Course Attributes: UAA GER Integrative Capstone.

Capstone course in which computer systems engineering students design a computer component or system starting with the initial design specification to the implementation and testing. Students apply knowledge and skills learned in their undergraduate curriculum.

CSE A445  Computer Design and Interfacing  4 CR
Contact Hours:  3 + 3
Prerequisites: EE A204 and CS A221 and [CS A241 or EE A241] and CS A320.

Develops the design and implementation of input and output (I/O) operations for computer systems. Creation of input and output ports, interrupt controls, communication schemes, timing, digital to analog and analog to digital conversions, and software control of connected devices are included. Lab projects include design, implementation, test, and demonstration of complete I/O systems built to accomplish a set of specified objectives.

CSE A451  Digital Signal Processing  3 CR
Contact Hours:  3 + 0
Prerequisites: MATH A231 and EE A351 and STAT A307.

Develops properties and methods of analysis of discrete-time signals, and the techniques used in creating and processing those signals. Topics include discrete-time linear systems, Z-transforms, the Discrete Fourier Transform and Fast Fourier Transform algorithms, digital filter design, system performance analysis, and problem-solving. Methods and effects of signal processing are analyzed and evaluated.

CSE A465  Network Security  3 CR
Contact Hours:  3 + 0
Prerequisites: CSE A455.

Analysis of network attack techniques and methods to defend against them, including firewalls, virtual private networks, network intrusion detection; and denial of service.

CTE - CAREER & TECHNICAL EDUCATION

Offered through the Community & Technical College
University Center (UC) Room 130, 786-6943
www.uaa.alaska.edu/cte/career

CTE A411  Historical and Philosophical Foundations of Career and Technical Education  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Junior or senior standing or departmental approval
May be stacked with: CTE A611.

Studies history, theory, development, and philosophical foundations of career and technical education. Examines career and technical education, including secondary, postsecondary, and applied programs, along with models of career education including career clusters.

CTE A490  Selected Topics in Career and Technical Education  1-6 CR
Contact Hours:  1-6 + 0
Registration Restrictions: Junior or senior standing or department approval.
May be stacked with: CTE A690.
Special Note: May be repeated for credit with a change of subtitle.

Studies emerging trends, standards and theories of learning that Career and Technical educators may integrate into their curriculum. Explores opportunities for application of models using work experiences to test the models.

CTE A611  Historical and Philosophical Foundations of Career and Technical Education  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate standing.
May be stacked with: CTE A411.

Studies history, theory, development, and philosophical foundations of career and technical education. Examines career and technical education, including secondary, postsecondary, and applied programs, along with models of career education including career clusters.

CTE A633  Current Issues in Career and Technical Education  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate standing.

Studies and analyzes recent trends, research, and issues concerning career and technical education, with a focus on evaluation, interpretation and sources. Identifies national and statewide problems, including legislation and special populations.

CTE A643  Teaching in Career and Technical Education  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate standing.

Explores teaching strategies, applied research regarding learning, and concept development in Career and Technical Education (CTE). Evaluates content and materials. Examines teaching and learning to facilitate application in the classroom or training situation. Provides fundamentals of standards-based curriculum design and assessment for CTE.

CTE A643A  Career and Technical Education Methods I  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Departmental approval required.

Provides fundamentals of standards-based curriculum design and assessment for diverse student populations in Career and Technical Education (CTE) classrooms. Explores applied research regarding students’ learning and conceptual development in CTE and corresponding pedagogy. Examines career and technical education foundations and evaluates content and materials.
**COURSE DESCRIPTIONS**

**CTE A643B  Career and Technical Education Methods II  2 CR**  
Contact Hours: 2 + 0  
Prerequisites: CTE A643A.  
Registration Restrictions: Departmental approval required.  
Continues the development of professional teaching practices appropriate for diverse student populations in Career and Technical Education (CTE) classrooms. Examines current research and scholarship about teaching and learning that will facilitate application in the classroom.  

**CTE A655  Curriculum and Assessment in Career and Technical Education  3 CR**  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing.  
Examines principles and procedures in the development of career and technical education curriculum. Studies theory and principles of quality assessment and assessment techniques. Addresses current trends in career and technical education curriculum and assessment, including programs of study and third party assessment.  

**CTE A690  Selected Topics in Career and Technical Education  1-6 CR**  
Contact Hours: 1-6 + 0  
Registration Restrictions: Graduate standing or department approval.  
May be stacked with CTE A490.  
Special Note: May be repeated for credit with a change of subtitle.  
Studies emerging trends, standards, and theories of learning that Career and Technical educators may integrate into their curriculum. Explores opportunities for application of models using work experiences to test the models.  

**CTE A695  Internship  1-9 CR**  
Contact Hours: 0 + 5-27  
Prerequisites: [CTE A611 and EDFN A601] or [EDFN A601 and EDFN A602 and EDFN A603].  
Registration Restrictions: Departmental approval required. Placement availability may result in registration restrictions. Includes coursework and fingerprinting, Alaska Student Teacher Authorization and medical clearance.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Special Note: This course operates in accordance with the K-12 school year calendar, not the University academic year calendar. Placement is arranged and supervised by the College of Education, in partnership with staff from the public school site and with faculty in the Community and Technical College. Partners may limit registration. Completion of 9 credits is required for the MAT.  
Supervised internship in a 7-12 public school. Internship develops teaching proficiency in career and technical education. Includes periodic on-campus seminars that emphasize theory-based inquiry into teaching and learning.  

**CTE A695C  Advanced Professional Experiences  1-6 CR**  
Contact Hours: 0 + 5-30  
Registration Restrictions: Graduate standing and faculty permission.  
Provides academic rigor to internships, externships, and other structured professional development activities in career and technical education. Course applies to all aspects of industry and support students’ professional objectives.  

**CTE A698  Individual Research  1-6 CR**  
Contact Hours: 1 + 5-30  
Registration Restrictions: Graduate standing and advisor permission. Completion of or concurrent enrollment in research courses by advisement.  
Facilitates the development of a research paper/project and presentation jointly approved by the student's graduate committee and the student. Supports research that coincides with the student's professional objectives.  

**CTE A699  Thesis  1-6 CR**  
Contact Hours: 1 + 5-30  
Registration Restrictions: Graduate standing and advisor permission. Completion of or concurrent enrollment in research courses by advisement.  
Facilitates the development of a thesis and presentation jointly approved by the student’s graduate committee and the student. Supports journal quality research that coincides with the student's professional objectives.  

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**CWLA - CREATIVE WRITING & LITERARY ARTS**

**Undergraduate-level CWLA courses are offered through the College of Arts & Sciences**  
Professional Studies Building (PSB), Room 212, 786-4355  
http://english.uaa.alaska.edu  
Graduate-level CWLA courses are offered through the College of Arts and Sciences  
Administration/Humanities Building (ADM), Room 270, 786-4394  
http://cwla.uaa.alaska.edu  

**CWLA A259  Short Format Introduction to Creative Writing  1 CR**  
Contact Hours: 1 + 0  
Special Fees.  
Special Note: This course may be taken up to six times for credit.  
Introduction to one type of creative writing conducted in short one-credit workshops.  

**CWLA A260A  Introduction to Creative Writing: Multiple Forms  3 CR**  
Contact Hours: 3 + 0  
Special Fees.  
Special Note: This course may be taken twice for credit.  
Introduction to two or more types of creative writing, with close analysis of each student's work.  

**CWLA A260B  Introduction to Creative Writing: Poetry  3 CR**  
Contact Hours: 3 + 0  
Special Fees.  
Special Note: This course may be taken twice for credit.  
Introduction to techniques of writing poetry, with close analysis of each student's work.  

**CWLA A260C  Introduction to Creative Writing: Fiction  3 CR**  
Contact Hours: 3 + 0  
Special Fees.  
Special Note: This course may be taken twice for credit.  
Introduction to techniques of writing fiction, with close analysis of each student’s work.  

**CWLA A260D  Introduction to Creative Writing: Nonfiction  3 CR**  
Contact Hours: 3 + 0  
Special Fees.  
Special Note: This course may be taken twice for credit.  
Introduction to techniques of writing nonfiction, with close analysis of each student’s work.  

**CWLA A260F  Introduction to Creative Writing: Children's Stories  3 CR**  
Contact Hours: 3 + 0  
Special Fees.  
Special Note: This course may be taken twice for credit.  
Introduction to various approaches to writing children's stories, with close analysis of each student’s work.  

**CWLA A261  Art/Literary Magazine Production  3 CR**  
Contact Hours: 3 + 0  
Special Fees.  
Special Note: May be taken twice for credit.  
Edit and prepare manuscripts for publication, layout magazine pages for the printer, and learn about other aspects of magazine production. Solicit, evaluate, and select material appropriate for a literary magazine: short stories, poetry, essays, artwork, etc. Also covers publicity, marketing, and distribution of the finished publication.  

**CWLA A352  Undergraduate Writer’s Workshop: Poetry  3 CR**  
Contact Hours: 3 + 0  
Registration Restrictions: One undergraduate writing workshop (200- or 300-level) and permission of instructor.  
Special Fees.  
Special Note: May be repeated for credit.  
Practice in writing poetry, with close analysis of each student’s work.  

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University of Alaska Anchorage 2009-2010 Catalog  
www.uaa.alaska.edu
CWLA A362  Undergraduate Writer's Workshop: Fiction 3 CR
Contact Hours: 3 + 0
Registration Restrictions: One undergraduate writing workshop (200- or 300-level) and permission of instructor.
Special Fees.
Special Note: May be repeated for credit.
Practice in writing fiction, with close analysis of each student's work.

CWLA A372  Undergraduate Writer's Workshop: Nonfiction 3 CR
Contact Hours: 3 + 0
Registration Restrictions: One undergraduate writing workshop (200- or 300-level) and permission of instructor.
Special Fees.
Special Note: May be repeated for credit.
Practice in writing of literary nonfiction, with close analysis of each student's work.

CWLA A461  Writing and Gender 3 CR
Contact Hours: 3 + 0
Registration Restrictions: One 200- or 300-level literature class, or a 300-level CWLA writing workshop.
Special Fees.
An examination across genres of issues and writing in their historical and political contexts. Emphasizes the discovery and analysis of common themes, narratives, and strategies in women's writing and how they compare to writing within masculine traditions.

CWLA A490  The Writer's Craft 3 CR
Contact Hours: 3 + 0
Registration Restrictions: One 200- or 300-level literature class, or a 300-level CWLA writing workshop.
Special Fees.
An examination of one or more forms of literary art, emphasizing formal elements discernible in craft and theory as it applies to both style and content.

CWLA A499  Thesis 3 CR
Contact Hours: 0 + 9
Registration Restrictions: Faculty permission.
Compilation of CWLA Minor with Distinction candidate's best creative writing. Includes an analysis and defense introducing the main body of original writing by the student.

CWLA A650A  Creative Writing Internship 3 CR
Contact Hours: 0 + 20
Registration Restrictions: Students must be MFA candidates nominated by the Creative Writing and Literary Arts faculty and graduate standing.
Special Note: May be repeated once for credit.
An internship for students in the MFA Program. Students selected for this internship will work with the editor of Alaska Quarterly Review. Students assigned to AQR will learn how to produce, manage and edit a nationally recognized literary journal.

CWLA A650B  Creative Writing Internship 3 CR
Contact Hours: 0 + 12
Registration Restrictions: Students must be MFA candidates nominated by the Creative Writing and Literary Arts faculty and graduate standing.
Special Note: May be repeated once for credit.
An internship for students in the MFA Program. Students selected for this internship will work with the features editor of the "Anchorage Daily News." Students will learn how to report, edit, research, and write for the "Anchorage Daily News."

CWLA A650C  Creative Writing Internship 3 CR
Contact Hours: 0 + 12
Registration Restrictions: Students must be MFA candidates nominated by the Creative Writing and Literary Arts faculty and graduate standing.
Special Note: May be repeated once for credit.
An internship for students in the MFA Program. Students selected for this internship will work as editors of Inklings, the campus literary magazine. They will supervise all aspects of the magazine and make editorial decisions concerning the contents of the magazine. They will also mentor undergraduates on the staff and/or undergraduates who are contributors to the magazine, as appropriate.

CWLA A652  Graduate Writer's Workshop: Poetry 5 CR
Contact Hours: 5 + 0
Registration Restrictions: Admission to MFA program in creative writing.
Grade Mode: Pass/No Pass.
Special Note: May be repeated twice for degree credit.
Advanced study and practice of the forms and techniques of poetry with close analysis of each student's creative work.

CWLA A662  Graduate Writer's Workshop: Fiction 5 CR
Contact Hours: 5 + 0
Registration Restrictions: Admission to MFA program in creative writing.
Grade Mode: Pass/No Pass.
Special Note: May be repeated twice for degree credit.
Advanced study and practice of the forms and techniques of fiction with close analysis of each student's creative work.

CWLA A672  Graduate Writer's Workshop: Literary Nonfiction 5 CR
Contact Hours: 5 + 0
Registration Restrictions: Admission to MFA program in creative writing.
Grade Mode: Pass/No Pass.
Special Note: May be repeated twice for degree credit.
Advanced study and practice of the forms and techniques of literary nonfiction with close analysis of each student's creative work.

CWLA A690  Studies in Form and Theory 5 CR
Contact Hours: 5 + 0
Registration Restrictions: Admission to MFA program in creative writing.
Grade Mode: Pass/No Pass.
Special Note: May be repeated twice for degree credit.
An examination of one or more forms of literary art emphasizing elements discernible in craft and theory as it applies to both style and content.

CWLA A695  Literary Practicum 1-5 CR
Contact Hours: 0 + 3-15
Registration Restrictions: Admission to MFA program in creative writing, permission of program director.
Grade Mode: Pass/No Pass.
Special Note: Practicum may be taken only after satisfactorily completing 20 credits of coursework.
Provides students with opportunities for professional development in writing, publishing, or teaching by focusing on literary projects of their own devising or by collaborating on projects with public, educational, or literary communities. Student is responsible for planning, organizing, and submitting projects to program director.

CWLA A698  Individual Research 1-6 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
The student conducts an individual research project under the close supervision of an instructor.

CWLA A699  Thesis 5 CR
Contact Hours: 0 + 15
Registration Restrictions: Admission to MFA program in creative writing, permission of advisor.
Grade Mode: Pass/No Pass.
Special Note: Must have satisfactorily completed 30 credits to enroll. May be repeated for a total of 10 credits.
A book-length collection of the graduate student's creative work, introduced by an in-depth analytical essay addressing the body of the creative work in terms of process, craft, and theory. Also part of the thesis evaluation is an annotated bibliography, oral defense of the thesis, and public reading.
**DA - DENTAL ASSISTING**

Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 160, 786-6929
www.uaa.alaska.edu/ctc/alliedhealth/da

**DA A101** Essentials of Dentistry 3 CR
- Contact Hours: 3 + 0
- Registration Restrictions: Departmental approval. Special Fees.
  - Provides foundations in general dentistry pertaining to dental assisting. Introduces basic dental procedures, safety, dental specialties, and dental anatomy.

**DA A102** Infection Control in Dentistry 2/3 CR
- Contact Hours: 2 + 0 or 2 + 2
- Registration Restrictions: Departmental approval. Special Fees.
  - Introduces infection control principles necessary for dental auxiliaries to operate safely within a dental office and to prevent the spread of microbial diseases.

**DA A110** Dental Radiography 3 CR
- Contact Hours: 3 + 0
- Registration Restrictions: Departmental approval. Special Fees.
  - Defines radiation physics and biology with emphasis on radiation health, safety, protection, radiation production, x-ray machines, components and function, and image receptors. Includes study of essential radiographic techniques, film processing techniques, and identification of radiographic anatomy.

**DA A110L** Dental Radiography Laboratory 1 CR
- Contact Hours: 0 + 2
- Prerequisites: (DA A110 or concurrent enrollment). Registration Restrictions: Departmental approval. Special Fees.
  - Applies information learned in Dental Radiography (DA A110) lecture on radiation health, safety, protection, x-ray machines, components and function, and image receptors. Includes study of essential radiographic techniques, film processing techniques, and identification of radiographic anatomy.

**DA A127** Dental Practice Management and Professionalism 3 CR
- Contact Hours: 3 + 0
- Prerequisites: DA A123. Special Fees.
  - Introduces the responsibilities of the dental assistant or dental practice management assistant and professionalism and related topics.

**DA A130** Chairside Techniques I 4 CR
- Contact Hours: 2 + 4
- Registration Restrictions: Departmental approval. Special Fees.
  - Introduces beginning skills necessary to function as a chairside dental assistant, and basic laboratory applications of restorative materials and alginate. Emphasis on developing clinical skills in four-handed dentistry techniques.

**DA A150** Biomedical and Dental Sciences for Dental Assistants 3 CR
- Contact Hours: 3 + 0
- Prerequisites: DA A101. Registration Restrictions: Departmental approval. Special Fees.
  - Presents dental terminology, anatomy of oral structures, anatomy and physiology of the head and neck. Introduces the body systems, oral embryology and histology, oral pathology and pharmacology as they relate to dental assisting.

**DA A195A** Dental Assisting Practicum I 1 CR
- Contact Hours: 0 + 6
- Prerequisites: (DA A110 or concurrent enrollment) and (DA A121 or concurrent enrollment) and (DA A123 or concurrent enrollment) and (DA A124 or concurrent enrollment) and (DA A128 or concurrent enrollment). Grade Mode: Pass/No Pass. Special Fees.
  - Orientation and practice in dental assisting techniques under supervision in local dental offices and clinics. Emphasizes further development of chairside assisting skills. Students will spend 80-85 hours in an off-campus facility.

**DA A195B** Dental Assisting Practicum II 3 CR
- Contact Hours: 0 + 16
- Prerequisites: DA A195A and (DA A122 or concurrent enrollment) and (DA A125 or concurrent enrollment) and (DA A126 or concurrent enrollment). Grade Mode: Pass/No Pass. Special Fees.
  - A clinical, off-campus course for dental assisting students who have completed all program requirements in the fall and spring semesters. Students are placed in general and specialty dental offices. Direct supervision is provided by the participating dentist and program faculty. Seminars are held to discuss student progress and experiences.

**DA A201** Chairside Techniques II 4 CR
- Contact Hours: 2 + 4
- Prerequisites: DA A110 and DA A110L and DA A130. Registration Restrictions: Departmental approval. Special Fees.
  - Continues Chairside Techniques I and Dental Radiography. Emphasizes advanced dental assisting skills and provides practice for those previously acquired. Covers advanced rubber dam application, panoramic procedures, exposing radiographs on patients, vital signs, medical and dental histories, temporary crown construction, and oral health and nutrition.

**DA A202** Dental Specialties for Dental Auxiliaries 3 CR
- Contact Hours: 2 + 2
- Prerequisites: DA A101 and DA A130. Registration Restrictions: Departmental approval. Special Fees.
  - Expands and applies information and skills necessary in endodontics, oral and maxillofacial surgery, orthodontics, pediatrics, periodontics, and fixed/removable prosthodontics.

**DA A295A** Clinical Practicum II 3 CR
- Contact Hours: 0 + 15
- Registration Restrictions: Departmental approval. Grade Mode: Pass/No Pass. Special Fees.
  - Applies clinical dental assisting experience in an extramural setting. Students will be assigned to one or more dental offices. Assisting in general dentistry is emphasized.

**DA A295B** Clinical Practicum III 2 CR
- Contact Hours: 0 + 5
- Registration Restrictions: Departmental approval. Grade Mode: Pass/No Pass. Special Fees.
  - Applies clinical dental assisting experience in an instructional setting. Students will participate in the dental assisting clinic working with novice students.

**DH - DENTAL HYGIENE**

Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 160, 786-6929
www.uaa.alaska.edu/ctc/alliedhealth/dh

**DH A201** Oral Histology and Embryology 2 CR
- Contact Hours: 2 + 0
- Prerequisites: BIOL A111 and BIOL A112. Registration Restrictions: Departmental approval. Special Fees.
  - Presents information on histology and embryology of the oral cavity, with emphasis on dental and periodontal structures. Includes discussion on dental accretions and cariology.

University of Alaska Anchorage 2009-2010 Catalog
www.uaa.alaska.edu Chapter 13 Page 361
DH A202 Basic Techniques for Dental Hygienists  7 CR
Contact Hours: 3 + 8
Prerequisites: BIOL A111 and BIOL A112 and [BIOL A240 or BIOL A241].
Registration Restrictions: Departmental approval; BLS certification.
Special Fees.
Introduces basic procedures used in dental hygiene treatment, including data gathering, patient education, and basic instrumentation. Emphasizes skill development in basic instrumentation and infection control.

DH A204 Anatomy of the Orofacial Structures  2 CR
Contact Hours: 2 + 0
Prerequisites: BIOL A111 and BIOL A112.
Registration Restrictions: Departmental approval.
Special Fees.
Provides students with anatomical knowledge necessary to perform technical skills within the oral cavity.

DH A222 Adjunctive Techniques for Dental Hygienists  1.5 CR
Contact Hours: 1 + 1.5
Prerequisites: DA A110 with minimum grade of C and DA A110L with minimum grade of C and DH A201 with minimum grade of C and DH A202 with minimum grade of C and DH A204 with minimum grade of C.
Registration Restrictions: Departmental approval; BLS certification.
Special Fees.
Introduces adjunctive techniques used in dental hygiene treatment. Emphasizes skills applied in the practice of dental hygiene, such as polishing, sealant placement, and fluoride application.

DH A292D Clinical Seminar I  1 CR
Contact Hours: 0 + 3
Prerequisites: DH A202 with minimum grade of C.
Registration Restrictions: Departmental approval.
Corequisite: DH A295D.
Grade Mode: Pass/No Pass.
Special Fees.
Provides procedural instruction and general support for Clinical Practicum I.
Emphasis is placed on review of treatment and case presentations.

DH A295D Clinical Practicum I  4 CR
Contact Hours: 0 + 12
Prerequisites: DH A202 with minimum grade of C.
Registration Restrictions: Departmental approval, BLS certification, and required immunizations.
Corequisite: DH A292D.
Special Fees.
Provides opportunity for students to achieve clinical skill competency with patients presenting as periodontally healthy or with signs of gingivitis. This course is conducted in a clinical setting with volunteer patients and individualized instruction.

DH A310 Oral Pain Control  3 CR
Contact Hours: 1.5 + 3
Prerequisites: DH A204 with minimum grade of C and DH A295D with minimum grade of C and DH A365 with minimum grade of C.
Registration Restrictions: Departmental approval; BLS certification.
Special Fees.
Special Note: Satisfies requirements of 12 ACC 28.340, Alaska State Dental Statutes and eligibility to take the Western Regional Board Examination for certification of dental hygienists to administer local anesthetics. It also meets regulation requirements for dental hygienists to administer and monitor nitrous oxide analgesia (12 AAC 18.720). Examines pharmacology, armamentarium, anatomical and physiological considerations, administration techniques, and potential complications of local anesthesia. Analyzes pharmacology, administration techniques, medical contraindications, and management complications accompanying administration and monitoring of nitrous oxide.

DH A311 Periodontics  2 CR
Contact Hours: 2 + 0
Prerequisites: [BIOL A240 with minimum grade of C or BIOL A241 with minimum grade of C] and DH A201 with minimum grade of C and DH A202 with minimum grade of C.
Registration Restrictions: Departmental approval.
Special Fees.
Uses previous knowledge of periodontal structures and microbiology to enable the student to assess periodontal conditions and formulate treatment plans.

DH A312 Advanced Techniques for Dental Hygienists  3 CR
Contact Hours: 1 + 4
Prerequisites: DH A311 with minimum grade of C.
Registration Restrictions: Departmental approval; BLS certification.
Special Fees.
Provides instruction in advanced procedures used in dental hygiene treatment, including root planing, ultrasonic scaling, and local chemotherapeutics.

DH A314 Pathology of Oral Tissues  2 CR
Contact Hours: 2 + 0
Prerequisites: [BIOL A240 with minimum grade of C or BIOL A241 with minimum grade of C] and DH A202 with minimum grade of C and DH A204 with minimum grade of C.
Registration Restrictions: Departmental approval.
Special Fees.
Examines pharmacology, armamentarium, anatomical and physiological considerations, administration techniques, and potential complications of local anesthesia. Analyzes pharmacology, administration techniques, medical contraindications, and management complications accompanying administration and monitoring of nitrous oxide.

DH A321 Current Periodontal Therapies  2 CR
Contact Hours: 2 + 0
Prerequisites: DH A314 with minimum grade of C and DH A395C with minimum grade of C.
Registration Restrictions: Departmental approval; BLS certification.
Special Fees.
Provides theoretical instruction on community dental health epidemiology, and discusses public health research methodology. Includes development and implementation of a basic community dental health care project.

DH A365 Pharmacology for Dental Hygienists  2 CR
Contact Hours: 2 + 0
Prerequisites: CHEM A104 with minimum grade of C and DH A202 with minimum grade of C.
Registration Restrictions: Departmental approval.
Special Fees.
Examines pharmacology, armamentarium, anatomical and physiological considerations, administration techniques, and potential complications of local anesthesia. Analyzes pharmacology, administration techniques, medical contraindications, and management complications accompanying administration and monitoring of nitrous oxide.

DH A392C Clinical Seminar II  1 CR
Contact Hours: 0 + 3
Prerequisites: DH A22 with minimum grade of C and DH A295D with minimum grade of C and DH A311 with minimum grade of C.
Registration Restrictions: Departmental approval.
Corequisite: DH A395C.
Grade Mode: Pass/No Pass.
Special Fees.
Provides discussion and evaluation of clinical experiences in Clinical Practicum II.
Emphasizes review of treatment and case presentations.

DH A392D Clinical Seminar III  1 CR
Contact Hours: 0 + 3
Prerequisites: DH A321 with minimum grade of C and DH A395C with minimum grade of C.
Registration Restrictions: Departmental approval.
Corequisite: DH A395C.
Grade Mode: Pass/No Pass.
Special Fees.
Provides discussion and evaluation of clinical experiences in Clinical Practicum III.
Emphasizes review of treatment and case presentations of patients exhibiting moderate to advanced periodontal disease.

DH A395C Clinical Practicum II  5 CR
Contact Hours: 0 + 15
Prerequisites: DH A22 with minimum grade of C and DH A295D with minimum grade of C and DH A311 with minimum grade of C.
Registration Restrictions: Departmental approval; BLS certification, and required immunizations.
Corequisite: DH A392C.
Special Fees.
Provides opportunity for students to achieve clinical skill competency with patients presenting with mild to moderate periodontal disease. Conducted in a clinical setting with volunteer patients and individualized instruction.
DLS - DISABILITY & LONG TERM SUPPORT

Offered through the College of Health & Social Welfare
UAA Center for Human Development
2702 Gambell Street, Suite 103, 272-8270
www.alaskachd.org

DLS A101 Introduction to Children's Residential Care 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Students must provide proof of current criminal background check that meets industry standards.

DLS A201 Skill Basics in Residential Services 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Students must provide proof of current criminal background check that meets industry standards.

DLS A205 Teaching Social Skills to Youth in Residential Care 4 CR
Contact Hours: 2 + 4
Registration Restrictions: Students must provide proof of current criminal background check that meets industry standards.

DLS A206 Positive Behavioral Supports in Residential Youth Care 3 CR
Contact Hours: 2 + 2
Prerequisites: DLS A205.

DLS A385 Working with Traumatized Children 3 CR
Contact Hours: 2 + 2
Prerequisites: DLS A101.

DN - DIETETICS & NUTRITION

Offered through the Community & Technical College
Lucy Cuddy Hall (CLUDY), Room 126, 786-4728
www.uaa.alaska.edu/ctc/culinary

DN A100 Introduction to Nutrition and Dietetics 1 CR
Contact Hours: 1 + 0
Prerequisites: DH A321 with minimum grade of C and DH A395 with minimum grade of C.
Registration Restrictions: Departmental approval, BLS certification, and required immunizations.
Corequisite: DH A392D.
Special Fees: Provides opportunity for students to achieve clinical skill competency with patients presenting with moderate to advanced periodontal disease. Conducted in a clinical setting with volunteer patients and individualized instruction.

DN A101 Principles of Nutrition 3 CR
Contact Hours: 3 + 0
Prerequisites: DH A321 with minimum grade of C and DH A395 with minimum grade of C.

DN A145 Child Nutrition 3 CR
Contact Hours: 3 + 0
Prerequisites: DH A321 with minimum grade of C and DH A395 with minimum grade of C.

DN A147 Geriatric Nutrition 3 CR
Contact Hours: 3 + 0
Prerequisites: DH A321 with minimum grade of C and DH A395 with minimum grade of C.

DN A155 Survey of Alaska Native Nutrition 3 CR
Contact Hours: 3 + 0
Prerequisites: DH A321 with minimum grade of C and DH A395 with minimum grade of C.

DN A203 Nutrition for Health Sciences 3 CR
Contact Hours: 3 + 0
Prerequisites: [BIOL A112 or concurrent enrollment] and [BIOL A112L or concurrent enrollment] or (CHEM A104 or concurrent enrollment).

DN A215 Sports Nutrition 3 CR
Contact Hours: 3 + 0
Prerequisites: [BIOL A111 and BIOL A111L] or BIOL A113.

DN A255 Concepts of Healthy Food 3 CR
Contact Hours: 3 + 0
Prerequisites: DN A101 with minimum grade of C or DN A203 with minimum grade of C.

DN A260 Food Science 3 CR
Contact Hours: 3 + 0
Prerequisites: DN A255 with minimum grade of C.

DN A295 Nutritional Care Practicum 1 CR
Contact Hours: 3 + 4
Prerequisites: DN A250 with minimum grade of B.
Registration Restrictions: Current immunizations.
Grade Mode: Pass/No Pass.
Special Fees: Special Note: Requires facility orientation.
Provides opportunity to interpret field experiences, differentiate between available strategies, recall and apply basic nutrition care principles and skills, and trace effects of efforts. Interpret institutional protocols, manuals, guides, etc. Apply basic principles to specific client actions, estimate results or outcomes, and discuss work with site supervisor. Facilitates 50 hour field experience.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>DN A301</td>
<td>Nutrition Assessment</td>
<td>2 CR</td>
<td>Prerequisites: DN A203 with minimum grade of C and MATH A107 with minimum</td>
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<td>grade of C and [PSY A111 with minimum grade of C or SOC A101 with minimum</td>
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<td>grade of C]. Special Note: Requires access to a registered dietitian for a</td>
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<td>16-hour practicum. Explores methods of nutrition assessment in humans to</td>
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<td>evaluate dietary intake and body composition including the use of biological</td>
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<td>markers of human nutritional status.</td>
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<tr>
<td>DN A303</td>
<td>Preventive and Therapeutic Nutrition</td>
<td>3 CR</td>
<td>Prerequisites: DN A101 with minimum grade of C or DN A203 with minimum grade</td>
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<td>of C. Explores role of food and dietary habits in prevention and management of</td>
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<td>diseases such as disorders of the upper and lower gastrointestinal tract,</td>
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<td>diabetes, heart disease, cancer, liver diseases, renal diseases, and HIV</td>
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<td>infection. Covers medical nutrition therapy for diseases by means of alterations</td>
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<td>in food consumption.</td>
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<tr>
<td>DN A310</td>
<td>Nutrition Communication</td>
<td>2 CR</td>
<td>Prerequisites: DN A203 with minimum grade of C and ENGL A111 with minimum</td>
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<td></td>
<td>grade of C and [PSY A111 with minimum grade of C or SOC A101 with minimum</td>
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<td>grade of C]. Registration Restrictions: COMM course</td>
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<td>Integrates theory and practice in communications in nutrition and dietetics.</td>
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<td>Provides practice in employee training, nutritional educational materials</td>
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<td>development, public speaking, and media presentation strategies.</td>
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<tr>
<td>DN A311</td>
<td>Nutrition Counseling</td>
<td>1 CR</td>
<td>Prerequisites: DN A203 with minimum grade of C and ENGL A111 with minimum</td>
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<td>grade of C and [PSY A111 with minimum grade of C or SOC A101 with minimum</td>
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<td>grade of C]. Registration Restrictions: COMM course</td>
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<td>Special Note: Requires access to a registered dietitian for a 16-hour</td>
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<td>practicum. Provides theory and practice in nutrition counseling including</td>
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<td></td>
<td>behavior modification techniques, processes of cognitive change and</td>
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<td>cross-cultural counseling.</td>
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<tr>
<td>DN A315</td>
<td>World Food Patterns</td>
<td>3 CR</td>
<td>Prerequisites: DN A101 or DN A203.</td>
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<td>Explores the role of food, including therapeutic uses of food, and nutrition</td>
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<td>in the human condition. Examines regional and ethnic influences on food</td>
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<td>selection and preparation.</td>
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<tr>
<td>DN A350</td>
<td>Foodservice Systems and Quantity Foods</td>
<td>3 CR</td>
<td>Prerequisites: DN A255 with minimum grade of C. Registration Restrictions:</td>
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<td>Passing score (greater than or equal to 70%) on ServSafe exam. Special</td>
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<td>Note: Includes a 40-hour practicum in a large foodservice operation</td>
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<td>(hospital-based for dietetics students). Presents principles and theories of</td>
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<td>foodservice systems; menu planning; development, standardization, adjustment</td>
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<td>and costing of quantity recipes; procurement and production of quantity food.</td>
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<tr>
<td>DN A355</td>
<td>Weight Management and Eating Disorders</td>
<td>3 CR</td>
<td>Prerequisites: DN A101 or DN A203.</td>
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<td>Analyzes the impact of obesity and eating disorders on the individual and</td>
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<td>society. Reviews etiology, incidence, socioeconomic influences, pathogenesis</td>
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<td>and treatments. Examines treatment techniques including modification of diet,</td>
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<td>activity and behavior.</td>
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<tr>
<td>DN A375</td>
<td>Research Methods in Nutrition and Dietetics</td>
<td>3 CR</td>
<td>Prerequisites: STAT A252 with minimum grade of C. Presents fundamentals of</td>
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<td>research knowledge and skills in the profession of nutrition and dietetics.</td>
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<td>Addresses research designs commonly used, principles of evidence-based practice,</td>
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<td>evidence analysis procedures, translational research and outcomes research</td>
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<td></td>
<td>methodology.</td>
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<tr>
<td>DN A401</td>
<td>Medical Nutrition Therapy I</td>
<td>3 CR</td>
<td>Prerequisites: DN A203 with minimum grade of C and DN A310 with minimum grade</td>
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<td>of C and DN A311 with minimum grade of C. Integrates the role of Medical</td>
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<td>Nutrition Therapy into the treatment of pathological conditions. Applies the</td>
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<td>Nutrition Care Process in common medical conditions classified as overweight</td>
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<td>and obesity, gastrointestinal tract disorders, cardiovascular diseases,</td>
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<td>cancer, psychiatric conditions and pulmonary diseases.</td>
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<tr>
<td>DN A402</td>
<td>Medical Nutrition Therapy II</td>
<td>3 CR</td>
<td>Prerequisites: DN A401 with minimum grade of C. Continues the integration of</td>
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<td>Medical Nutrition Therapy into the treatment of pathological conditions. Applies</td>
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<td>the Nutrition Care Process in complex medical conditions classified as</td>
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<td>endocrine disorders including diabetes, hepatic disorders, renal disease,</td>
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<td>immune system disorders, stress, trauma, critical illness, neurological</td>
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<td>disorders and pediatric concerns.</td>
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<tr>
<td>DN A415</td>
<td>Community Nutrition</td>
<td>3 CR</td>
<td>Prerequisites: DN A101 with minimum grade of C or DN A203 with minimum grade</td>
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<td>of C and [DN A145 with minimum grade of C or DN A147 with minimum grade of C].</td>
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<td>Registration Restrictions: Completion of all GER Tier 1 (Basic college-level</td>
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<td>skills) courses. Course Attributes: UAA GER Integrative Capstone. Applies</td>
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<td>nutrition principles to populations in various community environments and</td>
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<td>stages of life cycle, with consideration given to interrelated health, social,</td>
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<td>and economic concerns. Examines public policy related to nutrition concerns of</td>
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<td>target populations, and the marketing and management of community nutrition</td>
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<td>programs.</td>
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<td>DN A450</td>
<td>Dietetic Management</td>
<td>3 CR</td>
<td>Prerequisites: DN A350 with minimum grade of C. Registration Restrictions:</td>
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<td>Passing score (greater than or equal to 70%) on ServSafe exam. Covers</td>
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<td>management and leadership in dietetic practice. Discusses current issues</td>
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<td>affecting practice, including human resources, outcome management, accreditation,</td>
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<td>quality assurance, and entrepreneurship.</td>
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<tr>
<td>DN A475</td>
<td>Advanced Nutrition</td>
<td>3 CR</td>
<td>Prerequisites: BIOL A111 with minimum grade of C and BIOL A112 with minimum</td>
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<td>grade of C and BIOL A115 with minimum grade of C and CHEM A321 with minimum</td>
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<td>grade of C and CHEM A441 with minimum grade of C and DN A203 with minimum</td>
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<td>grade of C. Presents basic concepts of the mechanisms of actions, interactions,</td>
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<td>and the processes of cellular assimilation and utilization of nutrients in</td>
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<td>humans. Emphasis on the coordinated control of nutrient utilization among the</td>
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<td>major organs.</td>
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<tr>
<td>DN A490</td>
<td>Current Topics in Dietetics and Nutrition</td>
<td>1-6 CR</td>
<td>Contact Hours: 0-6-0-18 Examines current topics in dietetics and nutrition.</td>
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<td>Choice of topics resulting from special demands of the industry or special</td>
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<td>faculty expertise.</td>
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<tr>
<td>DN A692A</td>
<td>Seminar: Current Issues in Dietetics Clinical and Community</td>
<td>2 CR</td>
<td>Contact Hours: 8 + 0 Registration Restrictions: Bachelor’s degree that</td>
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<td>satisfies didactic program in dietetics (DPD) requirements set by the American</td>
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<td>Dietetic Association. Current immunizations are required for specific</td>
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<td>internship sites. Corequisite: DN A695C and DN A695D. Special Fees.</td>
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<td>Seminar in current dietetics and clinical and community nutrition issues/topics</td>
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<td>intended for dietetic interns. Provides theoretical and conceptual learning</td>
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<td>along with practicum coursework, necessary to meet American Dietetic</td>
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<td>Association accreditation standards and to prepare future dieticians for</td>
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<td>professional practice as Registered Dieticians.</td>
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<tr>
<td>DN A692B</td>
<td>Seminar: Current Issues in Dietetics Community Nutrition</td>
<td>1 CR</td>
<td>Contact Hours: 4 + 0 Registration Restrictions: Bachelor’s degree that</td>
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<td>satisfies didactic program in dietetics (DPD) requirements set by the American</td>
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<td>Dietetic Association. Current immunizations are required for specific</td>
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<td>internship sites. Corequisite: DN A695E and DN A695F. Special Fees.</td>
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<td>Seminar in current dietetics, community nutrition, foodservice administration</td>
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<td>issues/topics intended for dietetic interns. Provides theoretical and</td>
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<td>conceptual learning along with practicum coursework, necessary to meet</td>
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<td>American Dietetic Association accreditation standards and to prepare future</td>
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<td>dietitians for professional practice as Registered Dietitians.</td>
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<tr>
<td>DN A695C</td>
<td>Practicum in Clinical Nutrition</td>
<td>4 CR</td>
<td>Contact Hours: 0 + 22 Registration Restrictions: Bachelor’s degree that</td>
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<td>satisfies didactic program in dietetics (DPD) requirements set by the American</td>
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<td>Dietetic Association. Current immunizations are required for specific</td>
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<td>internship sites. Corequisite: DN A692A and DN A695D. Grade Mode: Pass/No</td>
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<td>Pass. Practicum experience in clinical nutrition for dietetic interns, necessary</td>
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<td>to meet American Dietetic Association accreditation standards and to prepare</td>
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<td>future dietitians for professional practice as Registered Dietitians.</td>
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</table>
DNCE - DANCE

Offered through the College of Arts and Sciences
Fine Arts Building (ARTS), Room 302, 786-1792
http://theatre.uaa.alaska.edu

DNCE A061 Elementary Ballet 1 CR
Contact Hours: 1 + 1
Special Fees.
Special Note: May be repeated three times for credit.
Introduction to classical ballet for the student with little or no background in dance. Simple exercises and combinations introduce fundamental ballet positions and terminology. Correct anatomical alignment and injury prevention stressed.

DNCE A071 Elementary Modern Dance 1 CR
Contact Hours: 1 + 1
Special Fees.
Special Note: May be repeated three times for credit.
Introduction to elementary modern techniques for the avocational student with little or no background in modern dance. Simple exercises and combinations introduce fundamental modern dance positions, movements, and terminology. Correct alignment stressed in basic exercises and elementary locomotor combinations.

DNCE A081 Elementary Jazz 1 CR
Contact Hours: 1 + 1
Special Fees.
Special Note: May be repeated three times for credit.
Introductory course in the fundamentals of jazz for the student with little or no dance background. Exercises and movement combinations introduce principles of jazz rhythm and style. Correct anatomical alignment and injury prevention stressed.

DNCE A101 Fundamentals of Ballet I 2 CR
Contact Hours: 1 + 2
Special Fees.
Special Note: May be repeated three times for credit.
Beginning ballet technique introduced through barre and center floor work. Emphasis on correct anatomical alignment and injury prevention.

DNCE A121 Fundamentals of Modern I 2 CR
Contact Hours: 1 + 2
Special Fees.
Special Note: May be repeated three times for credit.
Beginning modern dance techniques. Introduces basic dance skills through warm-up exercises and movement combinations. Exploration of modern dance aesthetics and philosophy. Correct anatomical alignment and injury prevention stressed.

DNCE A124 Dance for Musical Theatre 2 CR
Contact Hours: 1 + 2
Crosslisted with: THR A124
Special Fees.
Special Note: May be repeated three times for credit.
Introduces the vocabulary, variety of movement styles and performance techniques inherent in American musical theatre, including the ability to vocalize correctly during movement. Covers a range of time periods from the 1920s to the present.

DNCE A131 Fundamentals of Jazz I 2 CR
Contact Hours: 1 + 2
Special Fees.
Special Note: May be repeated three times for credit.
Basic jazz dance technique rooted in the complexity, variety, and spontaneity of jazz music. Includes the concepts of rhythmic manipulation and swing with an introduction to musical movement qualities, improvisation, and jazz history. Warm-up exercises and movement combinations develop jazz skills and promote strength and flexibility. Correct alignment and injury prevention stressed throughout class.

DNCE A145 Dances of the West African Diaspora I 2 CR
Contact Hours: 1 + 2
Special Fees.
Special Note: May be repeated three times for credit.
Beginning course in dances of the West African Diaspora including those of the Caribbean such as Haiti and Cuba. Movement fundamentals of these dance forms are developed through warm-up exercises and through execution of the dances themselves. Three to five dances will be learned each semester. History and cultural context of the dances will be stressed throughout the class.

DNCE A146 Introduction to Alaska Native Dance 1-2 CR
Contact Hours: 5 + 1 or 1 + 2
Crosslisted with: AKNS A146
Special Fees.
Special Note: May be repeated for up to 8 credits.
Beginning course in Alaska Native dance techniques involving movement, sounds/vocal, music, and storytelling. Historical, cultural, and aesthetic context of dance stressed throughout class.

DNCE A147 Popular American Social Dance 2 CR
Contact Hours: 1 + 1
Special Fees.
Special Note: May be repeated three times for credit.
Theory and practice of partnership social dance in the contemporary United States. Designed for learners who wish to expand their skills in social partnership dance or for overall development of movement skills. Specific dances will be examined in their historical and cultural contexts in order to find a closer connection to their movement forms.

DNCE A151 Fundamentals of Tap I 1 CR
Contact Hours: 1 + 1
Special Fees.
Special Note: May be repeated three times for credit.
Beginning tap dance techniques. Introduces basic tap dance skills through warm-up exercises and movement combinations. Rhythmic improvisation explored. Correct anatomical alignment and injury prevention stressed.

DNCE A170 Dance Appreciation 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Fine Arts Requirement.
Special Fees.
Develops an appreciation of dance for observers and participants through course readings, lectures, videos, live performances, writing, movement, and discussion sessions. Explores dance in social and cultural contexts and as an aesthetic and kinesthetic experience. Dances across cultures examined along with the development of dance as an art form in Europe and America. A lecture course with four - six dance studio movement session per semester.

DNCE A185 Design for Dance 3 CR
Contact Hours: 3 + 0
Special Fees.
Processes and practices necessary for the preparation of scenery, lighting, and related areas of design for the stage. Provides hands-on experience to learn operational equipment basics and appropriate terminology to enable a successful mastery of the basic practices and techniques required for effective dance production work.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>DNCE A205</td>
<td>Fundamentals of Ballet II</td>
<td>2</td>
<td>1 + 2</td>
<td>Prerequisites: DNCE 101 with minimum grade of C.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated three times for credit.</td>
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<td>Technical, verbal, and theoretical knowledge of ballet enhanced by acquisition of</td>
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<td>new skills for control and movement. Concepts of dance aesthetics and style plus</td>
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<td>interrelationships between music and dance. Emphasis on correct anatomical analysis</td>
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<td>and science of movement.</td>
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<tr>
<td>DNCE A223</td>
<td>Fundamentals of Modern II</td>
<td>2</td>
<td>1 + 2</td>
<td>Prerequisites: DNCE A121 with minimum grade of C.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated three times for credit.</td>
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<td>Modern dance techniques and vocabulary expanded by additional dance skills.</td>
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<td>Introduction of long warm-ups and movement combinations to increase body strength</td>
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<td>and flexibility. Exploration of modern dance history, philosophy, and aesthetics.</td>
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<td>Qualities of dance movement and music/dance relationships explored. Correct</td>
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<td>alignment and injury prevention stressed.</td>
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<tr>
<td>DNCE A224</td>
<td>Dance for Musical Theatre II</td>
<td>2</td>
<td>1 + 2</td>
<td>Prerequisites: DNCE A124 with minimum grade of C or THR A124 with minimum grade of C.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated three times for credit.</td>
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<td>Continuation of Dance for Musical Theatre I, building on the foundation of</td>
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<td>vocabulary, movement styles, vocalizing, and performance techniques. Techniques</td>
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<td>in improving audition skills and perfecting performance ability. Encompasses a</td>
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<td>range of time periods, from the 1920s to the present.</td>
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<tr>
<td>DNCE A245</td>
<td>Dances of the West African Diaspora II</td>
<td>2</td>
<td>1 + 2</td>
<td>Prerequisites: DNCE A145 with minimum grade of C.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated three times for credit.</td>
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<td>Level II course in social and religious dances of the West African Diaspora.</td>
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<td>May include those from South America and the Caribbean. Skills learned in Dances</td>
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<td>of the West African Diaspora I will be extended, while more complex dances will</td>
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<td>be introduced. Historical, social, and cultural context of each dance will be</td>
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<td>emphasized. Correct alignment and injury prevention stressed.</td>
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<tr>
<td>DNCE A253</td>
<td>Beginning Tap II</td>
<td>1</td>
<td>5 + 1</td>
<td>Prerequisites: DNCE A151 with minimum grade of C.</td>
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<td>Special Note: May be repeated three times for credit.</td>
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<td>This course increases the student's skill level in basic tap dance technique and</td>
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<td>augments tap vocabulary acquired in Beginning Tap Dance I. Students are introduced</td>
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<td>to more complex steps and rhythms. Historical and social importance of tap</td>
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<td>discussed.</td>
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<tr>
<td>DNCE A262</td>
<td>Theory and Improvisation</td>
<td>2</td>
<td>1 + 2</td>
<td>Prerequisites: DNCE A205 with minimum grade of C or DNCE A223 with minimum grade of C or DNCE A234 with minimum grade of C or THR A124 with minimum grade of C or THR A221 with minimum grade of C.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated 3 times for credit.</td>
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<td>Explores ensemble movement improvisation, providing opportunities for students to</td>
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<td>practice as soloists and to integrate vocal work with movement. Students practice</td>
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<td>improvisational skills they may be expected to use in rehearsal, as part of the</td>
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<td>composition/chorographic process, and/or in performance.</td>
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<tr>
<td>DNCE A290</td>
<td>Selected Topics in Dance</td>
<td>1-3</td>
<td>1-3 + 0</td>
<td>Registration Restrictions: Prerequisites will vary according to topic.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated three times for credit with change of topic.</td>
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<td>Additional fees may apply depending on topic.</td>
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<td>Introduction to current topics in dance performance and theory. Topics will</td>
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<td>depend on special demands of the dance season or faculty expertise.</td>
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<tr>
<td>DNCE A301</td>
<td>Intermediate Ballet I</td>
<td>2</td>
<td>1 + 2</td>
<td>Prerequisites: DNCE A205 with minimum grade of C.</td>
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<td>Special Note: May be repeated three times for credit.</td>
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<td>Elaboration of ballet technique through barre and center practice with an emphasis</td>
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<td>on body placement, flexibility, and strength. A serious ballet course requiring regular attendance.</td>
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</tbody>
</table>
ECON - Economics

Offered through the College of Business & Public Policy
Edward & Cathryn Rasmuson Hall (RH), Room 309, 786-4100
www.cbpp.uaa.alaska.edu/economics.asp

Students taking any ACCT, BA, CIS, ECON, LGOP, LOG, or PADM course will be charged a single lab fee of $25 for the semester. Applies to Ellmendorf AFB or Fort Richardson classes only when specifically noted on UAOline. Does not apply to Chugak-Eagle River classes.

ECON A201  Principles of Macroeconomics  3 CR
Contact Hours:  3 + 0
Prerequisites: MATH A105 or MATH A107 or MATH A172.
Registration Restrictions: If prerequisite is not satisfied, suitable SAT score, ACT score, or UAA-approved Math Placement Test is required.
Course Attributes: UAA GER Social Sciences Requirement.
Introduction to economics including analysis and theory of national income, money and banking, public finance and taxation, economic growth, and international finance. Primary concentration on the capitalist system and the United States economy.

ECON A202  Principles of Microeconomics  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201.
Course Attributes: UAA GER Social Sciences Requirement.
Theory of prices and markets, industrial organization, public policy, income distribution, contemporary problems of labor and business, and international trade.

ECON A210  Environmental Economics and Policy  3 CR
Contact Hours:  3 + 0
Registration Restrictions: MATH A105 with minimum grade of C or completion of quantitative skills GRR requirement.
Course Attributes: UAA GER Social Sciences Requirement.
Survey of environmental policy, emphasizing market-oriented approaches to problems. Present value, cost-benefit analysis, and nonmarket valuation tools are developed and applied to Alaska and global environmental and natural resource issues.

ECON A290  Special Topics in Economics  3 CR
Contact Hours:  3 + 0
Special Note: May be repeated with a change of subtitle/topic. Maximum of 9 elective credits may be used for the BA and BBA Economics degrees. Check class listing for specific titles being offered.
Study of specific current issues, techniques, and trends in economics.

ECON A300  The Economy of Alaska  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Junior or senior standing.
An introduction to the Alaska economy. Uses basic economic concepts to illustrate the Alaska economy. Includes a description of the sectors of the Alaska economy; an overview of the history of development; the economies of the state's urban and rural regions; and the important economic issues facing the state.

ECON A315  Urban and Regional Economics  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 and ECON A202.
Economic issues examined at the community, regional, and state levels. Examines the location of economic activity; models of regional economic growth, the structure of regional economies, migration, housing and land use issues, and economic policies affecting neighborhoods, communities, cities, and states.

ECON A321  Intermediate Microeconomics  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 and ECON A202 and [MATH A200 or MATH A272].
Analysis of demand and supply under various market structures; theory of production and cost; factor pricing and theory of distribution; and survey of welfare economics.

ECON A324  Intermediate Macroeconomics  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 and ECON A202.

ECON A325  History of Economic Thought  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 and ECON A202.
Economic thought from Aristotle to the present, mercantilism, classical and neoclassical theory, institutional economics, and socialism are examined.

ECON A333  Experimental Economics  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 with minimum grade of C and ECON A202 with minimum grade of C.
Applies experimental methods to study behavior in economics. Topics include public good provision, common pool resources, bargaining, fairness and reciprocity, markets and auctions, mechanism design, and policy analysis.

ECON A337  Development Economics  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 and ECON A202.
Economic approaches to the challenge of development. Physical and human capital, technology, institutions, geography, culture, and natural resources as sources of growth. Policies affecting trade, aid, health, and the environment. Alaska as a developing region.

ECON A341  Labor Economics  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 and ECON A202.
Analyzes labor market, employment and unemployment, wage differences, and structure and composition of the labor force. Examines occupational segregation, discrimination, economic aspects of unionism, labor legislation, and social insurance.

ECON A350  Money and Banking  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 with minimum grade of C and ECON A202 with minimum grade of C.
Examines how financial markets and financial institutions affect the macroeconomic state of the economy, how money is created, the role of central banks in financial regulation, and the implementation of monetary policy.

ECON A351  Public Finance  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 and ECON A202.
Government taxation, borrowing, and spending; economic effects of taxation, and influence of fiscal policy on economic activity.

ECON A360  Modern Economic History  3 CR
Contact Hours:  3 + 0
Prerequisites: HIST A102 and ECON A201.
Croslisted with: HIST A360.
Examines the role of geography, institutions, technology, and trade in the evolution of the modern economy. Emphasizes the long-run economic performance of Europe and the US. Also covers historic differences between the West and other parts of the world.

ECON A363  International Economics  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 with minimum grade of C and ECON A202 with minimum grade of C.
Studies the pure theory of international trade, including theories of comparative advantage, international monetary theory, and trade policy. Examines international institutions and their role and importance in world trade. Examines the role of free trade agreements and common currency areas.

ECON A390  Special Topics in Economics  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 with minimum grade of C and ECON A202 with minimum grade of C.
Special Note: May be repeated with a change of subtitle/topic. Maximum of 9 elective credits may be used for the BA and BBA Economics degrees. Check class listing for specific titles being offered.
Study of specific current issues, techniques, and trends in economics.

ECON A412  Econometrics  3 CR
Contact Hours:  3 + 0
Prerequisites: BA A273 with minimum grade of C and ECON A321 with minimum grade of C.
Application of statistical theory and methods in testing economic theories and estimating economic relationships. Emphasizes multiple regression analysis and hypothesis testing.

ECON A418  Politics and Economics of the Russian Far East  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 or INTL A355 or PS A102.
Registration Restrictions: Junior standing.
Croslisted with: PS A418.
Special Note: May not be used for satisfying upper-division economics electives requirements of the Economics major.
Examines the political and economic system of the Russian Far East (RFE) during the pre-Soviet, Soviet, and post-Soviet periods; political and economic conditions in different regions of the RFE, and contemporary political and economic issues.

ECON A418  Politics and Economics of the Russian Far East  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 or INTL A355 or PS A102.
Registration Restrictions: Junior standing.
Croslisted with: PS A418.
Special Note: May not be used for satisfying upper-division economics electives requirements of the Economics major.
Examines the political and economic system of the Russian Far East (RFE) during the pre-Soviet, Soviet, and post-Soviet periods; political and economic conditions in different regions of the RFE, and contemporary political and economic issues.
COURSE DESCRIPTIONS

ECON A429  Business Forecasting  3 CR
Contact Hours:  3 + 0
Prerequisites: BA A273 with minimum grade of C and CIS A110 with minimum grade of C
and [BA A377 with minimum grade of C or ECON A321 with minimum grade of C].
Applies methods of business forecasting and analyzes fluctuations in economic activity. Statistical forecasts are prepared and evaluated.

ECON A435  Natural Resource Economics  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A321 with minimum grade of C.
Economic analysis of natural resource use, conservation, and management. Examines minerals, energy, forests, fisheries, and ecosystem services. Uses Alaska examples.

ECON A454  Economics Internship  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A321 and ECON A324.
Registration Restrictions: Junior standing as an economics major; and permission of faculty and dean.
Special Fees.
Work experience in an approved position with supervision and training in various phases of applied economics or economic research.

ECON A459  Industrial Organization and Public Policy  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A321 with minimum grade of C.
Analyzes different market structures. Additional topics include anti-trust and other government regulation; public policy issues in regulated industries, such as transportation, communications, electricity, and gas; and the economic and legal issues and problems arising from noncompetitive market conditions.

ECON A492  Seminar in Economic Research  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A321 with minimum grade of C and ECON A324 with minimum grade of C and ECON A412 with minimum grade of C and ECON A429 with minimum grade of C.
Class Standing Restriction: Must be Senior.
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and senior standing.
Course Attributes: UAA GER Integrative Capstone.
Requires integration of principles, theories, and methods learned in courses taken throughout the economics major/program. Students analyze, synthesize, and critically evaluate and apply knowledge of economics in a research project. Formal written and oral presentations of the research are required.

ECON A602  Introduction to Economics for Managers  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate standing.
Special Note: Foundation course for MBA and MPA programs. Does not satisfy the minimum 30 credit hour requirement for an MBA or MPA program.

ECON A625  Economics and Public Policy  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 and ECON A202.
Special Note: Offered Fall Semesters.
An examination of economics in relation to public policy, both as a determinant of policy and a tool of administration.

ECON A640  Economics of Transportation  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Faculty permission.
Economic aspects of the transportation industry with special emphasis on problems of regulation and public policy.

ED A180  Beginning Sign Language  1 CR
Contact Hours:  1 + 0
Introductory training in manual communication methods used in the United States. Students will learn how to carry on basic communication with deaf persons via manual mode. Credit will be awarded upon demonstration of mastery of the materials.

ED A181  Intermediate Sign Language  1 CR
Contact Hours:  1 + 0
Prerequisites: ED A180.
Continued instruction in manual communication methods. Students will become fluent in the most commonly used methods of communicating with deaf persons. Credit will be awarded only upon demonstration of successful mastery of the competencies required in the course.

ED A200  Tutoring Lab  1-3 CR
Contact Hours:  0 + 2-6
Prerequisites: ED A200A.
Offered only at Kenai Peninsula College.
The goal of this course is to successfully tutor students. Introduction to tutoring lab serves as the practical experience for ED A200A, ED A200B, and ED A200C.

ED A200A  Beginning Tutor Training Seminar  1 CR
Contact Hours:  1 + 0
Registration Restrictions: Faculty permission.
Offered only at Kenai Peninsula College.
Students new to the tutor program develop skills for successfully helping students with their course work. Tutors learn and practice techniques for handling a variety of situations before tutoring begins. The framework for each semester tutor program is established during the course.

ED A200B  Advanced Tutor Training Seminar  1 CR
Contact Hours:  1 + 0
Prerequisites: ED A200A.
Offered only at Kenai Peninsula College.
Advanced tutors will hone their skills through seminars, workshops and projects. Tutors may qualify for assisting their peers in academic courses, adult basic education, and English as a Second Language, or in public schools.

ED A200C  Master Tutor Training Seminar  1 CR
Contact Hours:  1 + 0
Prerequisites: ED A200A and ED A200B.
Registration Restrictions: 2 credits of ED A200 and faculty permission. Specific tutoring assignments may have other requirements.
Offered only at Kenai Peninsula College.
Master tutors will hone their skills through seminars, workshops, and projects. Tutors may qualify for assisting their peers in academic courses, adult basic education, English as a Second Language, or in the public schools.

ED A216  Children’s Literature  3 CR
Contact Hours:  3 + 0
Intended for teachers, parents, librarians, or anyone interested in reading many books for preschoolers through 6th grade. Much attention to selection and best use of children’s literature.

ED A222  Bilingual Education and Paraeducators  1 CR
Contact Hours:  1 + 0
Registration Restrictions: Department approval.
Focuses on the dynamics and challenges of educating diverse populations. Provides working paraeducators the opportunity to develop ideas, define concepts, and to practice skills related to bilingual classrooms.

ED A223  Paraeducators and Developing Readers  2 CR
Contact Hours:  2 + 0
Registration Restrictions: Department approval.
A discussion of current issues and practices in teaching K-12 reading for paraeducators. Special emphasis on the role of the paraeducator in describing and reporting students’ reading problems and assisting in individual and group instruction.

EDAE - EDUCATION - ADULT EDUCATION
Offered through the College of Education
Professional Studies Building (PSB), Room 218, 786-4450
http://coe.uaa.alaska.edu/adulted

EDAE A615  Introduction to Adult Education  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate standing.
Exploration and broad overview of the field. Topical areas include people, literature, terms, issues, sociocultural context, and adult education as a field of practice. Includes skills foci on academic reading, writing, and student portfolio.
EDAE A639 Instructional Technology 3 CR
Product Evaluation
Contact Hours: 3 + 0
Prerequisites: EDAE A638.
Registration Restrictions: Graduate standing.
Provides the learner with the knowledge to effectively evaluate learning instruments through a variety of approaches. Evaluation of software and hardware instructional products is emphasized.

EDAE A645 The Teaching of Adults 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Examines direct and indirect teaching methods. Activities assist learners to identify individual values and ethics. Involves critical thinking skills and ethical decision making. Explores current ethical issues applicable to adult education practices. Learners design, develop, and deliver several classes, workshops, and presentations.

EDAE A650 Principles of Human Resource Development 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Examines current principles and theories of human resource development with respect to Adult Education. Strategies and techniques for practical application of procedures and tools are presented. Applicable to adult educators working in a variety of human resource systems that include educational institutions, non-profits, business and industry, and voluntary organizations.

EDAE A655 The Adult Learner 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Examines major principles, problems and information about adults and adult learning. Includes psychological, physical, intellectual and other factors affecting adults and their ability to learn; motivation, participation of adult learners, principles and theories of adult learning; and traditional, non-traditional, and self-directed learning.

EDAE A656 Understanding and Facilitating 1 CR
Adult Learning
Contact Hours: 1 + 0
Registration Restrictions: Graduate standing.
Examines developmental concepts, theories, and approaches to facilitating learning in adulthood. Explores the creation of teacher professional development environments that incorporate best practices for adult learning.

EDAE A665 History and Philosophy of Adult Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Examines the historical foundations of adult education and explores the various philosophical approaches to adult education currently practiced in the United States. Compares and contrasts the theoretical and practical relationships of these philosophies.

EDAE A667 Distance Learning and Adult Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Examines instructional methods for reaching adult learners at a distance. Provides participation in the design of instruction and use of specific delivery systems and technologies. Emphasizes design and delivery of instruction in Alaska. Students analyze and critique various modes of distance education in Alaska.

EDAE A670 Current Topics in Adult Education 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Bachelor's degree from an accredited university. Special Note: May be repeated for credit with change of subtitle. Restricted enrollment may apply. See advisor for applicability to degree program.
Specific current issues, techniques, and trends affecting or of interest to adult educators.

EDAE A675 Design of Programs for Adults 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Examines of fundamental concepts of educational program planning for adults in informal, community, health care, higher education, and human resource settings.

EDAE A676 Curriculum and Instructional Design 3 CR
Contact Hours: 3 + 0
Prerequisites: EDAE A675.
Registration Restrictions: Graduate standing.
Examination of the curriculum development process and exploration of instructional design elements.

EDAE A679 Methods and Materials in Adult Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Exploration of methods and materials available for use in adult education, including the wide variety of methods and techniques in use today, and of both print and mediated materials. Develops skills in creating materials appropriate for adults in differing settings, and participating in delivery of instruction using various methods to create stimulating and effective learning environments.

EDAE A691 Professional Seminar 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Bachelor's degree from an accredited university.
Reviews research in adult education, current and past, with analysis of its directions, effect, methodology, quality, and prospects. Examines and compares current practices and trends in the field with core literature of adult education. Promotes examination of professional portfolios for adult educators.

EDAE A695 Practicum in Adult Education 1-3 CR
Contact Hours: 0 + 3-9
Prerequisites: EDAE A615 and EDAE A655 and EDAE A665 and EDAE A675.
Registration Restrictions: Instructor approval.
Grade Mode: Pass/No Pass.
Supervised field experience designed to facilitate exploration of the field and transfer of skills to an adult education practice setting.

EDAE A698 Inquiry Project 1-3 CR
Contact Hours: 0 + 3-9
Prerequisites: (EDAE A685 or concurrent enrollment) or (EDFN A627 or concurrent enrollment).
Registration Restrictions: Departmental approval.
Grade Mode: Pass/No Pass.
An inquiry project in an educational, community, or administrative setting related to the student's program concentration. The project, the culminating academic experience leading to the graduate degree, is original, creative work integrating theory and evidence-based practice.

EDAE A699 Thesis 1-3 CR
Contact Hours: 0 + 3-9
Prerequisites: (EDAE A685 or concurrent enrollment) or (EDFN A627 or concurrent enrollment).
Registration Restrictions: Departmental approval.
Grade Mode: Pass/No Pass.
Completion of a master's thesis. The thesis is based on original investigation and demonstrates scholarship, knowledge of the relevant literature and selection of appropriate methods of research.

EDCN - EDUCATION - COUNSELOR
EDUCATION
Offered through the College of Education
Professional Studies Building (PSB), 786-4401
http://coe.uaa.alaska.edu/coun
EDCN A610 Professional and Ethical Orientation to Counseling 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Introduces the counseling profession. Includes fundamental ethical and legal issues; generic helping processes, histories, settings, roles, organizations; and credentials associated with various specialties in the field.

EDCN A613 Human Development for Helping Professionals 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Examines the implications of development on counseling services. Explores the major theories of human growth from birth to death in areas such as personality, cognitive, learning, social, physical, cultural, and emotional development.

EDCN A614 Counseling Diverse Populations 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Examines issues, concepts, and meanings of culture that impact counseling work with distinctive populations, with a focus on Alaska's context. Addresses relationships and influences among culture, education, society, and counseling.
EDCN A616  Counseling Theories  3 CR
Contact Hours: 3 + 0
Prerequisites: EDCN A610.
Registration Restrictions: Graduate standing.
Examines counseling theories from the psychodynamic, humanistic, behavioral, cognitive, and systems perspectives.

EDCN A620  Assessment in Counseling  3 CR
Contact Hours: 3 + 0
Prerequisites: EDRS A660.
Registration Restrictions: Graduate standing.
Examines the purpose, philosophy, and role of assessment in counseling. Explores topics such as psychometric concepts, diagnostic interviewing, standardized tests, and non-testing assessment methods used in school and agency settings.

EDCN A623  Counseling Skills and Techniques  3 CR
Contact Hours: 3 + 0
Prerequisites: EDCN A610 and EDCN A616.
Registration Restrictions: Graduate standing.
Emphasizes developing proficiency in basic and advanced counseling skills and techniques associated with specific theories.

EDCN A624  Group Counseling  3 CR
Contact Hours: 3 + 0
Prerequisites: EDCN A610 and EDCN A616.
Registration Restrictions: Graduate standing.
Examines group counseling including styles of leadership, stages of process, theoretical concepts, and common topics.

EDCN A625  Administration and Practices in School Counseling  3 CR
Contact Hours: 3 + 0
Prerequisites: EDCN A610.
Registration Restrictions: Graduate standing.
Examines technological and functional skills necessary for the development and delivery of K-12 school counseling programs. Emphasizes state and national standards.

EDCN A627  Counseling in Community Agencies  3 CR
Contact Hours: 3 + 0
Prerequisites: EDCN A610.
Registration Restrictions: Graduate standing.
Examines community agency counseling. Includes topics such as ethical and legal issues, crisis counseling, domestic violence, and substance abuse. Emphasizes the technological and functional skills necessary for effective work with multiple client populations.

EDCN A632  Lifespan Career Development  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Examines the major theories of career development for clients. Explores labor market information, career development competencies, diversity, career information resources, assessment techniques, and delivery modes including educational programming.

EDCN A633  Counseling Children and Adolescents  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Examines counseling work with children and adolescents. Includes topics such as ethical and legal issues, theories, techniques, and high risk issues.

EDCN A634  Counseling Practicum  3 CR
Contact Hours: 1 + 5
Prerequisites: EDCN A610 and EDCN A613 and EDCN A614 and EDCN A616 and EDCN A620 and EDCN A623 and EDCN A624 and EDCN A632.
Registration Restrictions: Departmental approval required; Admission to practicum.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Students must apply for placement in advance. See advisor for deadlines and procedures.
Provides students with an opportunity to bridge academic preparation with supervised practice in an approved setting. Involves seminar classes, direct and indirect counseling activities, and preparing for internship.

EDCN A636  Counseling Practicum II  3 CR
Contact Hours: 0 + 9
Prerequisites: EDCN A611 and EDCN A615 and EDCN A623 and EDCN A624 and EDCN A634.
Registration Restrictions: Admission into the Counselor Education Program and department approval required.
Grade Mode: Pass/No Pass.
The culminating activity of counselor preparation. Applied techniques course focusing on specific counseling techniques and intervention issues as well as problems encountered in specific school or agency settings. The counselor candidate works in a variety of therapeutic settings and experiences the real situation of a counselor.

EDCN A690  Current Topics in Counseling  1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Graduate standing.
Examines current issues, techniques, and trends of interest to counselors.

EDCN A695A  Counseling Internship: Advanced  1-6 CR
Contact Hours: 0 + 4-27
Prerequisites: EDCN A695C or EDCN A695E or EDCN A695S.
Registration Restrictions: Department approval required; Admission to internship.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Students present and defend a portfolio that documents attainment of advanced counselor competencies. Course may not be used to fulfill elective requirements. Students must apply for placement in advance. See advisor for deadlines and procedures.
Provides an advanced supervised counseling experience in an approved school or community agency setting.

EDCN A695C  Counseling Internship: Community Agency  3-6 CR
Contact Hours: 1 + 15-30
Prerequisites: EDCN A627 and EDCN A634 and EDCN A690 and EDSE A632.
Registration Restrictions: Department approval required; Admission to internship.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Students attend seminar, and present and defend a portfolio that documents attainment of counselor competencies. Course may not be used to fulfill elective requirements. Students must apply for placement in advance. See advisor for deadlines and procedures.
Provides supervised counseling experience in an approved community agency setting.

EDCN A695E  Counseling Internship: Elementary School  3-6 CR
Contact Hours: 1 + 15-30
Prerequisites: EDCN A625 and EDCN A633 and EDCN A634 and EDSE A632.
Registration Restrictions: Department approval required; Admission to internship.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Students attend seminar, and present and defend a portfolio that documents attainment of counselor competencies. Course may not be used to fulfill elective requirements. Students must apply for placement in advance. See advisor for deadlines and procedures.
Provides supervised counseling experience in an approved elementary school setting.

EDCN A695S  Counseling Internship: Secondary School  3-6 CR
Contact Hours: 1 + 15-30
Prerequisites: EDCN A625 and EDCN A633 and EDCN A634 and EDSE A632.
Registration Restrictions: Department approval required; Admission to internship.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Students attend seminar, and present and defend a portfolio that documents attainment of counselor competencies. Course may not be used to fulfill elective requirements. Students must apply for placement in advance. See advisor for deadlines and procedures.
Provides supervised counseling experience in an approved secondary school setting.
EDEC - EDUCATION - EARLY CHILDHOOD
Offered through the College of Education
Professional Studies Building (PSB), Room 220, 786-4481
http://coe.uaa.alaska.edu/earlychildhood

EDEC A100 Fundamentals of Early Childhood Practice 3 CR
Contact Hours: 3 + 0
Addresses essential practical elements and commonly accepted standards of safe, healthy, competent care for young children.

EDEC A105 Introduction to the Field of Early Childhood 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Social Sciences Requirement.
Survey of historical, social, and philosophical foundations of the field of early childhood. Core topics include ethics, developmentally appropriate practices, observation and documentation, survey of types of early childhood settings, and professionalism in the field of early childhood.

EDEC A106 Creativity and the Arts in Early Childhood 3 CR
Contact Hours: 2 + 2
Special Fees.
Explores creativity and importance of the arts in early childhood education.

EDEC A201 Early Childhood Practitioner Roles and Responsibilities 2 CR
Contact Hours: 2 + 0
Focuses on the diverse roles of the early childhood practitioner, with an emphasis on self-analysis, ethical conduct, reflection and ongoing professional growth.

EDEC A206 Integrated Curriculum for Young Children 3 CR
Contact Hours: 2 + 2
Prerequisites: EDEC A105.
Examines early childhood curriculum models to organize, integrate, and implement with young children. Explores interest-based, developmentally appropriate, and standards-based curriculum ideas.

EDEC A210 Guiding Young Children 3 CR
Contact Hours: 3 + 0
Prerequisites: EDEC A105.
Examination of the learning principles relevant to guidance of young children. The course introduces the social, emotional, and intellectual development of young children and the implications for effective child guidance and motivation in the classroom.

EDEC A241 Infant and Toddler Development 3 CR
Contact Hours: 3 + 0
Prerequisites: EDEC A105.
Examines the development of infants and toddlers, infant/toddler care programs, the roles of caregivers and their relationships with families. This course emphasizes cognitive, language, emotional, and motor development, and the importance of relationships in the care and education of infants and toddlers.

EDEC A242 Family and Community Partnerships 3 CR
Contact Hours: 3 + 0
Prerequisites: EDEC A105 or EDFN A101 or EDSE A212 or PSY A245.
Examines the importance and complexity of children's families and communities. The course explores programs that support family-centered principles underlying program planning, implementation, and relationship building.

EDEC A292 Early Childhood Practicum Seminar 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Department approval
Corequisite: EDEC A295.
This seminar accompanies EDEC A295. Provides opportunity for exchange of ideas and experiences, evaluation and reflection concerning developmentally appropriate practice.

EDEC A295 Early Childhood Practicum 3 CR
Contact Hours: 0 + 10
Prerequisites: EDEC A105 and EDEC A210 and EDEC A241 and EDEC A242.
Registration Restrictions: Department approval
Corequisite: EDEC A292.
Grade Mode: Pass/No Pass.
Special Fees.
Supervised field experience in early childhood classroom. Students develop, implement and evaluate elements of a comprehensive, developmentally appropriate curriculum and learning environment.

EDEC A295B Practicum II 3 CR
Contact Hours: 1 + 2
Prerequisites: EDEC A295A.
Registration Restrictions: Faculty permission required. Must have faculty permission to take concurrently with EDEC A295A.
Special Fees.
Supervised experience in an instructor approved early childhood setting. Emphasis is on an increasing level of responsibility for planning/supervising all program areas. Experience includes an initial assessment in all areas of professional competencies. An individual plan for the semester will be developed.

EDEC A303 Young Children in Inclusive Settings 3 CR
Contact Hours: 3 + 0
Prerequisites: EDEC A301.
Registration Restrictions: Departmental approval required: admission to College of Education, pre-major status or admission to Associate of Applied Sciences in Early Childhood.
Special Note: Field experience is required.
Examines the principles, issues, concepts, and teaching practices to support young children with disabilities in community child care settings and primary classrooms.

EDEC A304 Environment, Spaces, and Relationships 3 CR
Contact Hours: 3 + 0
Prerequisites: EDEC A242 and EDEC A303.
Registration Restrictions: Departmental approval required: admission to College of Education, full-major status.
Examines the design of the environment. This course will cover the principles that transform space into engaging places for young children. The design, organization, use of materials, and relationships to curriculum will be covered.

EDEC A306 Assessment of Young Children 3 CR
Contact Hours: 3 + 0
Prerequisites: EDEC A304.
Registration Restrictions: Departmental approval required; admission to College of Education, full-major status.
Special Fees.
Examines best practices, tools and approaches for assessing children from infancy through 8 years. Focuses on the understanding of the assessment process and the development of assessment skills. Addresses program planning and monitoring progress with special attention to diversity and to children with disabilities.

EDEC A401 Infant/Toddler Approaches and Programs 3 CR
Contact Hours: 3 + 0
Prerequisites: EDEC A305 and EDEC A306.
Registration Restrictions: Departmental approval required; admission to College of Education, admission to internship.
Corequisite: EDEC A495.
Examines approaches and programs for infants and toddlers. This course will emphasize the role of caregivers, design of environment, working with families, and community agencies.

EDEC A402 Preschool Approaches and Programs 3 CR
Contact Hours: 3 + 0
Prerequisites: EDEC A305 and EDEC A306.
Registration Restrictions: Departmental approval required; admission to College of Education, admission to internship.
Corequisite: EDEC A495.
Examines approaches and programs for preschool age children. This course will emphasize the design of curriculum and environment, and will include approaches for working with families and community agencies.
EDEC A403 Mathematics and Science in Early Childhood 3 CR
Contact Hours: 3 + 0
Prerequisites: EDEC A306.
Registration Restrictions: Department approval required; Concurrent enrollment in internship required.
Special Fees.
Examines the principles, developmental concepts, and curriculum designed to promote science and mathematics concepts. Analyzes how young children develop mathematical and scientific thinking. Methods of teaching mathematics and science to young children are covered.

EDEC A404 Literacy for Young Children I 3 CR
Contact Hours: 3 + 0
Prerequisites: EDEC A306.
Registration Restrictions: Department approval required; Concurrent enrollment in internship required.
Examines the understanding and importance of language and literacy. The course will cover oral and written discourse as they relate to the development of methods, materials, and philosophy of reading curricula.

EDEC A407 Observation and Documentation in Early Childhood 4 CR
Contact Hours: 3 + 2
Prerequisites: EDSE A212 or PSY A245.
Registration Restrictions: Completion of GER Tier I (basic college-level skills) courses. May be stacked with: EDEC A607.
Special Fees.
Special Note: Requires a 30-hour practicum.
Examines the process of observation and documentation as a means to understand and make visible children's learning. Course covers the observation and documentation process as a cycle of inquiry as well as formal assessment systems.

EDEC A408 Children's Literature: Early Childhood Years 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A212 or PSY A245.
May be stacked with: EDEC A408.
Explores variety of children's literature with emphasis on selecting, interpreting, and using quality literature with young children.

EDEC A492 Early Childhood Seminar 1 CR
Contact Hours: 1 + 0
Corequisite: EDEC A495.
Seminar enhances the internship teaching experience by creating situations in which the intern will integrate theoretical knowledge from previous education courses with the classroom experiences.

EDEC A495 Early Childhood Internship 3-9 CR
Contact Hours: 0 + 12-30
Registration Restrictions: Departmental approval; admission to internship. Corequisite: EDEC A492.
Grade Mode: Pass/No Pass.
Special Note: Completion of 12 credits required for degree and certification.
Supervised internship in early childhood classroom. Allows for application of theoretical concepts and principles in the early childhood classroom environment. Emphasizes curriculum instruction, planning, assessment, reflection, classroom management, and professionalism skills for the field.

EDEC A601 Approaches in Early Childhood: Preschool 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the Master Teacher Program Specialty Option in Early Childhood.
Advanced class designed to examine the underlying principles and theory that guide current practices in the field of early childhood care and education. Emphasis will be placed on programs for toddlers and preschool age children. Students reflect on their own practices analyzing ways their teaching is guided by current principles. Emphasis placed on the contributions of the social constructivist view and the application to environments with young children with varying abilities.

EDEC A605 Early Childhood Education Principles and Practices 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the Master Teacher Program Specialty Option in Early Childhood.
Survey of current principles, practices, and research in early childhood education. Will cover an analysis of early childhood education theory and beliefs as it relates to teaching and curriculum decisions. Students will study their understanding of "Developmentally Appropriate Practices" in the classroom setting. Course assignments require students to analyze their teaching values, principles, and theory as embedded in their daily practices. Issues related to home, school, and community as it relates to the child are covered.

EDEC A607 Observation and Documentation: Inquiry in Action 4 CR
Contact Hours: 3 + 2
Registration Restrictions: Graduate standing. May be stacked with: EDEC A407.
Special Note: Requires a 30-hour practicum.
Examines the process of observation and documentation as a means to understand and make visible children's learning. Course covers the observation and documentation process as a cycle of inquiry as well as formal and informal assessment systems. Students apply knowledge of observation and documentation to produce a professional artifact that contributes to the field.

EDEC A608 Analysis of Children's Literature: Early Childhood Years 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing. May be stacked with: EDEC A408.
Intensive study of various genres of children's literature. Students will analyze and critique major historical and contemporary works of children's literature for use in classrooms.

EDEC A652 How Young Children Learn: The Development and Learning Processes of Young Children 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the Master Teacher Program Specialty Option in Early Childhood.
Designed to cover the development and learning process that influence educational planning for young children (birth-eight years). Intended to extend the knowledge of the educator to integrate developmental information for the educational setting. Covers an overview of theories that inform practices to include Western and Non-Western childhood perspectives. Analysis of child development research and trends that impact the ways educational programs are designed for young children in the educational (public school) and child care community.

EDEC A664 Advanced Studies in Classroom Management for Young Children 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the Master Teacher Program Specialty Option in Early Childhood.
Learn to analyze, plan, and manage a learning environment that provides a meaningful curriculum for young children (pre-K-primary). Covers ways to design a learning environment that is connected to curriculum, plan and evaluate children's construction of knowledge, build a framework for an integrated curriculum, document children's learning using authentic means, and consider the abilities of individual learners. Use classroom settings to study the content of the course to promote reflective teaching practices.

EDEL - EDUCATION - ELEMENTARY EDUCATION
Offered through the College of Education Professional Studies Building (PSB), Room 224, 786-4481
http://coe.uaa.alaska.edu/elementary

EDEL A425 Teaching Reading in Elementary Schools 4 CR
Contact Hours: 4 + 0
Prerequisites: EDFN A300 and EDFN A301 and EDFN A303 and EDSE A482.
Registration Restrictions: Departmental approval required; Admission to Internship. Special Fees.
Survey of current issues and practices in teaching K-6 reading. Focuses on the teaching of developmental and content reading, and provides informal assessment techniques and materials for reading. Concurrent enrollment in internship required.
EDEL A426  Teaching Mathematics in Elementary Schools  3 CR  
Contact Hours:  3 + 0  
Prerequisites: EDFN A300 and EDFN A301 and EDFN A303 and EDSE A482 and MATH A205.  
Registration Restrictions: Departmental approval required; Admission to Internship.  
Special Fees.  
Methodology and materials used in the elementary mathematics classroom. Focus is on the mathematics topics typically taught in elementary schools and research-based methods for teaching. Concurrent enrollment in internship required.

EDEL A427  Teaching Social Studies in Elementary Schools  2 CR  
Contact Hours:  2 + 0  
Prerequisites: EDFN A300 and EDFN A301 and EDFN A303 and EDSE A482.  
Registration Restrictions: Departmental approval required; Admission to Internship.  
Special Fees.  
Methodology and materials used in the modern elementary school social studies classroom. Students will be exposed to current research regarding K-6 student learning and conceptual development in history and social studies, and corresponding pedagogy, such as inquiry and issues-based learning. Includes issues in content selection and curriculum development and standards-based curriculum design. Concurrent enrollment in internship required.

EDEL A428  Teaching Science in Elementary Schools  2 CR  
Contact Hours:  2 + 0  
Prerequisites: EDFN A300 and EDFN A301 and EDFN A303 and EDSE A482.  
Registration Restrictions: Departmental approval required; Admission to Internship.  
Special Fees.  

EDEL A429  Teaching Health Education in Elementary Schools  2 CR  
Contact Hours:  2 + 0  
Prerequisites: EDFN A300 and EDFN A303 and EDSE A482.  
Registration Restrictions: Departmental approval required; Admission to Internship.  
Special Fees.  
Methodology and materials used in the elementary health classroom. Students will be exposed to the current research, issues, curriculum, and standards. Concurrent enrollment in internship required.

EDEL A430  Teaching Language Arts in Elementary Schools  3 CR  
Contact Hours:  3 + 0  
Prerequisites: EDFN A300 and EDFN A301 and EDFN A303 and EDSE A482.  
Registration Restrictions: Departmental approval required; Admission to Internship.  
Special Fees.  
Students focus on theory and process of language arts: reading, writing, speaking, listening, viewing, and visually representing. Reflects a constructivist approach to teaching and learning and research-based practice. Concurrent enrollment in internship required.

EDEL A431  Creative Expression: Music, Art, and Drama for Elementary Teachers  3 CR  
Contact Hours:  1 + 4  
Prerequisites: EDFN A300 and EDFN A301 and EDFN A303 and EDSE A482.  
Registration Restrictions: Departmental approval required; Admission to Internship.  
Special Fees.  
Principles, methods, and materials of teaching music, art, and drama at the elementary school level. A wide variety of creative activities that are basic to elementary curricula are explored. Includes the use of music, art, and drama in standards-based curriculum planning and assessment for the diverse student population in elementary classrooms. Concurrent enrollment in internship required.

EDEL A432  Physical Education for Elementary Classroom Teachers  1 CR  
Contact Hours:  1 + 0  
Prerequisites: EDFN A300 and EDFN A303 and EDSE A482.  
Registration Restrictions: Departmental approval required; Admission to Internship.  
Special Fees.  
Examines the methodology and materials for implementing physical education in the elementary classroom. Focuses on movement education, integration, and developmentally appropriate activities. Concurrent enrollment in internship required.

EDEL A495A  Internship I  3 CR  
Contact Hours:  0 + 9  
Prerequisites: EDFN A300 and EDFN A301 and EDFN A303 and EDSE A482.  
Registration Restrictions: Departmental approval required; Admission to Internship.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Special Note: Course begins in accordance with the K-12 school year calendar, not the university academic year calendar.  
Supervised internship in an educational facility. Interns work with mentor teachers and demonstrate development of their teaching proficiency. Weekly internship seminar required.

EDEL A495B  Internship II  6 CR  
Contact Hours:  0 + 18  
Prerequisites: EDEL A495A.  
Registration Restrictions: Departmental approval required; Admission to Internship.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Special Note: Course begins in accordance with the K-12 school year calendar, not the university academic year calendar.  
Supervised internship in an educational facility. Internship II will continue the experiences begun in Internship I, students continuing to work with their mentor teachers and demonstrating continued development of their teaching proficiency. All students will teach an extended unit during this course and will be expected to assume complete responsibility for the classroom for an extended period. Weekly internship seminar is required.

EDET - EDUCATION - EDUCATIONAL TECHNOLOGY  
Offered through the College of Education  
Professional Studies Building (PSB), Room 220, 786-4481  
http://coe.uaa.alaska.edu/tldept  
EDET A626  Technology in Teaching and Learning  3 CR  
Contact Hours:  3 + 0  
Prerequisites: EDE A626.  
Registration Restrictions: Graduate standing in the College of Education, and prior experience using a PC.  
Special Fees.  
The role of technology in restructing learning environments. Explains how teaching and learning environments can be enhanced through different approaches to using technology. A broad range of technologies used in work with their mentor teachers and demonstrating continued development of their teaching proficiency. All students will teach an extended unit during this course and will be expected to assume complete responsibility for the classroom for an extended period. Weekly internship seminar is required.

EDET A629  Multimedia Tools for Learning  3 CR  
Contact Hours:  3 + 0  
Prerequisites: EDET A626.  
Registration Restrictions: Graduate standing in the College of Education. Special Fees.  
The role of multimedia learning technologies in supporting constructivist learning environments. Demonstrates how the effective use of multimedia learning technologies can improve student-centered learning and teachers' abilities to support active learning through the use of interactive multimedia. Participants will be trained to use a variety of multimedia technologies to develop and deliver multimedia presentations suitable to various subject areas and/or age/grade levels.

EDET A637  Design of e-Learning  3 CR  
Contact Hours:  3 + 0  
Level Restriction: Must be Graduate - UAA level.  
Prerequisites: EDE A626.  
Registration Restrictions: Graduate standing.  
Develops effective instructional methods for learners in web-based learning environments.

EDET A638  Facilitation of Learning with Technology  3 CR  
Contact Hours:  3 + 0  
Level Restriction: Must be Graduate - UAA level.  
Prerequisites: EDE A626.  
Registration Restrictions: Graduate standing.  
Using technology to facilitate teaching and learning in educational environments. Includes theory as well as hands-on production of artifacts using technology.
EDET A640  e-Learning Project Development  3 CR  Contact Hours:  3 + 0  Prerequisites: CIS A420 with minimum grade of C and EDET A637 with minimum grade of C.  Registration Restrictions: Graduate standing.  Special Fees.  Applying curriculum, instructional design and development knowledge with information and communication technologies in the construction of an e-learning project in a virtual and/or hybrid environment. This is a capstone course for the e-Learning Graduate Certificate.

EDET A652  Educational Telecommunications and the Internet  3 CR  Contact Hours:  2 + 1  Prerequisites: EDET A626.  Special Fees.  The role of telecommunications in the educational environment. Covers the basic use of telecommunications and the Internet for educators and covers both skill-building and current research and theory on using on-line communication in the learning process.

EDET A655  Implementing the Standards: Integrating Educational Technology into the Curriculum  3 CR  Contact Hours:  3 + 0  Prerequisites: EDET A629 and EDET A652.  Registration Restrictions: Graduate standing.  Special Fees.  Focuses on building K-12 curriculum materials and strategies in the use of microcomputers and related educational technologies as they relate to national and state standards.

EDFN A101  Introduction to Education  3 CR  Contact Hours:  3 + 0  Prerequisites: EDSE A212 or concurrent enrollment) or (PSY A245 or concurrent enrollment).  Registration Restrictions: Completion of all GER Tier 1 (basic college-level skills) courses and junior standing.  Course Attributes: UAA GER Integrative Capstone.  Special Fees.  Focuses on building an Educational Technology Electronic Teaching Portfolio and assessing that portfolio against national and state standards.

EDFN A300  Philosophical and Social Context of American Education  3 CR  Contact Hours:  3 + 0  Prerequisites: EDSE A212 or concurrent enrollment) or (PSY A245 or concurrent enrollment).  Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and junior standing.  Course Attributes: UAA GER Integrative Capstone.  Special Fees.  explores significant educational movements, theories, and research related to educational philosophy, sociology, and history to develop a framework for professional educational practice.  Course emphasizes the importance of developing a coherent philosophy to guide teaching practice in a culturally diverse and inclusive classroom.

EDFN A301  Foundations of Literacy and Language Development  3 CR  Contact Hours:  3 + 0  Prerequisites: PSY A245.  Registration Restrictions: Departmental approval required; Admission to the College of Education.  Special Fees.  Focuses on building literacy and language development from birth through the school years.  Course includes field experience.

EDFN A302  Foundations of Educational Technology  2 CR  Contact Hours:  2 + 0  Prerequisites: PSY A245.  Registration Restrictions: Departmental approval required; Admission to the College of Education.  Special Fees.  Provides prospective teachers with the general skills needed to integrate technology into their teaching and learning.  Presents an overview of the issues, pedagogies, and skills needed to guide the effective use and assessment of technology in elementary school classrooms.  Technologies used in schools as educational tools will be introduced.

EDFN A303  Foundations of Teaching and Learning  3 CR  Contact Hours:  3 + 0  Prerequisites: EDFN A301 or concurrent enrollment) and (EDSE A212 or PSY A245).  Registration Restrictions: Departmental approval required; Admission to the College of Education.  Special Fees.  Extends understanding of cognitive, affective, and communicative development of children and youth and connects these to current research, theories, and practices in teaching and learning.  Emphasizes learning theory, models of teaching and assessment, and curriculum planning as the foundation for a developmentally appropriate teaching practice for inclusive classrooms.  Course includes field experience.

EDFN A304  Comparative Education  3 CR  Contact Hours:  3 + 0  Registration Restrictions: Completion of all GER Tier 1 (basic college-level skills) courses and junior standing.  Course Attributes: UAA GER Integrative Capstone.  Special Fees.  Compares P-12 educational systems and issues across nations and regions, focusing on case examples representing diverse cultural, historical, and political contexts.  Examines theories in comparative education; purposes of schooling; socio-cultural contexts of education; policy, curricular, and pedagogical responses to diversity issues; and organizational and structural issues.

EDFN A444  Positive Learning Communities in K-6 Classrooms  1 CR  Contact Hours:  1 + 0  Registration Restrictions: Departmental approval required.  Special Note: Concurrent enrollment in internship required.  Research-based strategies and practices in creating positive learning communities in K-6 classrooms.  Provides realistic connections from theory to practice for implementing and evaluating strategies in classroom management.

EDFN A470  Electronic Portfolio Development  1-3 CR  Contact Hours:  1-3 + 0-9  Registration Restrictions: Intermediate computer skills required.  This is not a course for beginning computer users.  A “readiness survey” will be available to help students assess whether they have the minimum computer skills.  Grade Mode: Pass/No Pass.  Special Fees.  Developing and using an electronic portfolio.  For first credit, students create an electronic portfolio, selecting from a variety of strategies for development, organization, storage, and presentation.  For second credit, students learn to add digital audio and video clips to the portfolio.  For third credit, students will read the literature and become conversant with issues and research on electronic portfolio development for a variety of ages and situations, including useful criteria for evaluation portfolios based on national or local standards.

EDFN A478  Issues in Alaska Native Education, K-12  3 CR  Contact Hours:  3 + 0  Registration Restrictions: Departmental approval required.  Special Fees.  Special Note: This course meets the Alaska Department of Education and Early Development Alaska Studies requirement for State certification.  History of Alaska education and current education policy with a focus on issues in Alaska Native education.  Includes the study of the Alaska environment as well as the social, economic, and political history of Alaska from the perspective of both Alaska Native people and immigrant residents.

EDFN A487  Field Experiences: Teacher Education  1-11 CR  Contact Hours:  0 + 2-22  Registration Restrictions: Departmental approval required.  Grade Mode: Pass/No Pass.  Special Fees.  Field experiences in public school classrooms.  Includes elementary, secondary, and physical education programs.  Students gain practical experience in classroom settings.  Assignments must be arranged through the College of Education.
EDFN A601 Foundations: Philosophy of Education 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Departmental approval required. Special Fees.
Examines significant educational philosophies. Explores the development of a personal educational philosophy that encourages continuous self-assessment and reflection with the goal of improving professional teaching practice.

EDFN A602 Foundations: Educational Psychology 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Departmental approval required. Special Fees.
Examines significant educational movements, theories, and research in the areas of educational psychology. Develops a framework for professional practice. Includes study of theory, development, pedagogy, and instructional practice. Focus is on the teacher's role and responsibility in lesson development, curriculum design, instructional methods, and integration of relevant educational psychology.

EDFN A603 Foundations: Educational History and Sociology 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Departmental approval required. Special Fees.
Examines significant educational historical periods. Explores how the current social, political, and policy forces came into existence and how they influence the day-to-day environment of today's teacher. Includes the development of belief system and worldview through examining key school experiences. Major educational reform efforts will be analyzed.

EDFN A612 Community Relations 3 CR
Contact Hours: 3 + 0
Effective interpersonal and organizational communication, including facilitation, collaboration, conflict resolution, organizational change, dialogue, and intercultural communication.

EDFN A621 Culture, Language and Literacy 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing in the College of Education
Examination of the theoretical underpinnings of bilingual/cross-cultural and English as a second language (ESL) education as they apply to literacy issues. Special attention is given to research findings on first and second language acquisition and subsequent implications for the teaching of reading and writing.

EDFN A622 Philosophy of Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing in the College of Education.
Basic philosophic concepts and their historical development; philosophy applied to education and related issues and problems; examination of contributions of outstanding educators.

EDFN A627 Education Research 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing in the College of Education.
Techniques of education research; selection of topics and problems; data gathering; interpretation and preparation of reports.

EDFN A631 Advanced Educational Psychology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing in the College of Education.
Human emotional, mental, physical and social development. Emphasis on individual differences. Assumes one previous course in human development, educational psychology, and teaching experience.

EDFN A636 Innovations in Teaching and Learning 3 CR
Contact Hours: 3 + 0
Significant and emerging theories of teaching and learning. Reviews current educational reform efforts and examines the research base of each initiative to assess potential effectiveness.

EDFN A647 Developing Literacies Across the K-12 Continuum 1 CR
Contact Hours: 1 + 0
Prerequisites: EDFN A478 and EDFN A602. Registration Restrictions: Departmental approval required. Special Fees.
Analysis and evaluation of current learning theory, models, and best practices for developing literacies, including visual, literary, and performing arts, in order to design appropriate pedagogy across the K-12 continuum.

EDFN A649 Capstone Seminar: Inquiry in Teaching and Learning 2 CR
Contact Hours: 2 + 0
Prerequisites: CTE A695B or EDFN A695B. Registration Restrictions: Departmental approval required. Sharing, analysis, reflection, and presentation of theory-based classroom inquiry conducted during the MAT program. Interns will self-assess their classroom experiences and develop their educational philosophies in light of standards, research, and current educational trends and perspectives.

EDFN A651 Curriculum Theory and Development 3 CR
Contact Hours: 3 + 0
Curriculum theory as it applies to current developments in K-12 curriculum. Participants will be exposed to curricular, instructional and assessment issues which evolve from contemporary research.

EDFN A654 Brain, Mind, and Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Critically examines research from various fields including neurobiology and psychology. Students will evaluate the research for potential implications for and applications to educational settings.

EDFN A670 Current Topics in Education 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Faculty permission. Special Note: May be repeated for credit with a change of subtitle. Restricted enrollment may apply; see advisor for applicability to degree program. Study of specific current issues, techniques and trends affecting educators.

EDFN A691 Current Topics in Second Language Education 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Graduate standing; basic fluency in a second language desirable.
Focuses on second-language education, based on current research and first-hand experience from successful, established programs. Intended for administrators; early-childhood, elementary, secondary modern language or ESL teachers; and others planning to implement a second-language education program or currently participating in an established program.

EDFN A695 Internship 1-9 CR
Contact Hours: 0 + 3-27
Prerequisites: EDFN A601 with minimum grade of C and EDFN A602 with minimum grade of C and EDFN A603 with minimum grade of C. Registration Restrictions: Departmental approval required. Grade Mode: Pass/No Pass. Special Fees. Special Note: This course operates in accordance with the K-12 school year calendar, not the University academic year calendar. Placement is arranged and supervised by the university in partnership with staff from the public school site. Partners may limit registration. Completion of 9 credits is required for the MAT. Supervised internship in a K-12 public school. Includes periodic on-campus seminars that emphasize theory-based inquiry into teaching and learning.

EDFN A695E Internship: English for Speakers of Other Languages (ESOL) 2-4 CR
Contact Hours: 0 + 6-12
Prerequisites: EDFN A478 and EDFN A602. Registration Restrictions: Departmental approval Grade Mode: Pass/No Pass. Special Internship for candidates seeking a Graduate Certificate in Language Education in the ESOL concentration. Requires participation in a discussion group with an emphasis on theory-based inquiry into teaching and learning.

EDFN A698 Individual Research 1-6 CR
Contact Hours: 1-6 + 0
Prerequisites: (EDF 627 or concurrent enrollment). Registration Restrictions: Faculty permission. Grade Mode: Pass/No Pass. As directed by graduate committee.

EDFN A699 Thesis 1-6 CR
Contact Hours: 1-6 + 0
Prerequisites: (EDF 627 or concurrent enrollment). Registration Restrictions: Faculty permission. Grade Mode: Pass/No Pass. As directed by graduate committee.
EDL - EDUCATIONAL DEVELOPMENT & LEADERSHIP

Offered through the College of Education
Professional Studies Building (PSB), Room 218, 786-4450
http://coe.uaa.alaska.edu/edleadership

EDL A637  Educational Leadership and Organizational Behavior  3 CR
Contact Hours:  3 + 0
Special Fees.
Leadership and decision-making through collegial relations and consensus building in school settings. Includes skills for facilitating site-focused teams and activities, with emphasis on improving student performance and enhancing a school's reputation. Contemporary theories of organizational development and change are presented.

EDL A638  Instructional and Curricular Leadership  3 CR
Contact Hours:  3 + 0
Special Fees.
Knowledge, skills, and resources for instructional leaders to develop and implement activities that improve learning. Emphasizes contemporary practices in curriculum and assessment that assist school personnel in strengthening classroom instruction and enhance student academic performance.

EDL A639  The Politics of Education  3 CR
Contact Hours:  3 + 0
Special Fees.
Historical, social, and cultural influences that have shaped political decisions affecting the national, state, and local educational program. Attention to federal, state, and local requirements as they pertain to decisions of a principal. Analysis of political groups, formal, and informal for impact on school organization and curriculum. Current trends for historical significance and impact on schools of the future.

EDL A640  Law and Ethics in Education  3 CR
Contact Hours:  3 + 0
Special Fees.
Knowledge and skills for developing professionally-sound legal and ethical practices in school settings. Legal issues that impact the organization and delivery of public education, including professional practice commissions standards and constitutional, statutory, administrative, and case law.

EDL A641  Principal Internship  3-6 CR
Contact Hours:  0 + 9-18
Prerequisites: EDL A637 and EDL A640 and ([EDL A642 or concurrent enrollment] or [EDL A643 or concurrent enrollment]).
Registration Restrictions: Admission to the Ed Leadership program.
Grade Mode: Pass/No Pass.
Special Fees.
Fieldwork in an appropriate educational or agency setting. Assignment will be respective to the Standards for Alaska's Administrators.

EDL A642  Principal's Seminar I  3 CR
Contact Hours:  3 + 0
Prerequisites: EDL A637 and EDL A640.
Registration Restrictions: Admission to Principal's Certification Program.
Corequisite: EDL A641.
Seminar presentations and discussions focus on urban/rural school-community relations and school facilities. Contributing school administrators augment academic instruction and offer a practical touchstone for students’ research and writing.

EDL A643  Principal’s Seminar II  3 CR
Contact Hours:  3 + 0
Prerequisites: EDL A637 and EDL A640.
Registration Restrictions: Admission to Principal's Certification Program.
Corequisite: EDL A641.
Special Fees.
School seminar presentations and discussions focus on student finance, personnel, and labor relations. Contributing school administrators augment academic instruction and offer a practical touchstone for students’ research and writing.

EDL A652  Introduction to Teacher Leadership  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate standing
Exploration and broad overview of teacher leadership. Emphasizes collaborative processes, reflection, and school-based research as paths to improving professional practice.

EDL A652A  Introduction to Teacher Leadership I  1 CR
Contact Hours:  1 + 0
Registration Restrictions: Graduate standing
Exploration and broad overview of teacher leadership. Emphasizes collaborative processes, reflection, and school-based research as paths to improving professional practice.

EDL A652B  Introduction to Teacher Leadership II  2 CR
Contact Hours:  2 + 0
Prerequisites: EDL A652A.
Registration Restrictions: Graduate standing
Extension of the exploration and broad overview of teacher leadership. Emphasizes collaborative processes, reflection, and school-based research as paths to improving professional practice, as a continuation of Introduction to Teacher Leadership I.

EDL A653  Leadership for Equity  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate standing
Focuses on implementing and practicing leadership. Emphasizes equity and excellence in schools. Candidates learn to challenge in themselves and in schools the intellectual structures, definitions and assumptions about people that lead to inequities.

EDL A654  Building Mentoring Relationships  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate standing
Focuses on the theories inherent in successful mentoring relationships and induction programs. Emphasizes the analysis and application of research and best practices in development of skills, understanding, and integration of theory in formal mentoring programs.

EDL A655  Professional Development and Teacher Learning  2 CR
Contact Hours:  2 + 0
Registration Restrictions: Graduate standing
Examines the ways in which organizational policies, leadership, and professional practices affect the quality of teaching and learning. The focus is on critical analysis of the complex nature of teacher learning and professional growth with application of this knowledge to designing organizational programs.

EDL A659  Teacher Leadership Capstone Project  3 CR
Contact Hours:  3 + 0
Prerequisites: EDAE A656 and EDL A637 and EDL A638 and EDL A639 and EDL A652 and EDL A653 and EDL A654 and EDL A655.
Registration Restrictions: Admission to the Teacher Leadership Program.
Special Note: May be repeated to six hours.
Culminating demonstration of skills and applied theories for the improvement of professional practice through the initiation of a student-determined research project. Provides for structured demonstration and documentation of collaborative processes in all phases of the research project.

EDL A671  Superintendent Stewardship and Systemic Change  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Master’s Degree.
Special Fees.
Role of superintendent as the steward of the entire school system and the leader responsible for improving student learning through public accountability measures.

EDL A672  Student Performance: Academic and Developmental  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Master’s Degree.
Focus on the superintendent’s need to understand developmental research that explains student academic performance including the psycho-social, physiological, and cultural dimensions.

EDL A673  Human Resource Management and Labor Relations  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Master’s Degree.
Tools and approaches that enable superintendents to manage personnel and negotiation transactions within a school district.

EDL A674  Public School Finance and Facilities  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Master’s Degree.
Special Fees.
Key components of K-12 public school finance and K-12 facility design and maintenance as they relate to the preparation of superintendents.
EDL A675  Superintendent Internship  3-6 CR
Contact Hours:  0 + 9-18
Prerequisites: (EDL A676 or concurrent enrollment) or (EDL A677 or concurrent enrollment).
Registration Restrictions: Admission to the Ed Leadership Superintendent program and completion of any two of EDL A671, A672, A673, and A674.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: May be repeated for a maximum of 6 credits.
Fieldwork in an appropriate educational or agency setting. Assignment will be respective to the superintendent.

EDL A676  Superintendent Seminar I  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Admission to the Ed Leadership Superintendent program and completion of any two of EDL A671, A672, A673, and A674.
Corequisite: EDL A675.
Special Fees.
The themes of policy development and implementation, school-community relations, and instructional reform with a focus on state and local events and issues. Supplements EDL A675. Provides opportunity to interns for structured reflection and added input.

EDL A677  Superintendent Seminar II  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Admission to the Ed Leadership Superintendent program and completion of any two of EDL A671, A672, A673, and A674.
Corequisite: EDL A675.
Special Fees.
The themes of policy development and implementation, human resource management, and district level finance and facilities management. Supplements EDL A675. Provides opportunity to interns for structured reflection and added input.

EDME - EDUCATION - MATHEMATICS
Offered through the College of Education
Professional Studies Building (PSB), Room 220, 786-4481
http://coe.uaa.alaska.edu/tldept

EDME A608  Mathematical Problem Solving: 3 CR
Overview for K-8 Teachers
Contact Hours:  3 + 0
Registration Restrictions: Current Teaching Certificate.
Examines underlying concepts of problem solving. Identifies problem-solving strategies that can be introduced into K-8 classrooms. Instruction models appropriate teaching practices for K-8 classrooms. Licensed teachers enrolled in this course will have practice developing instruction and assessment plans that are research and standards based and that support a curriculum organized around a problem-solving approach.

EDME A614  Numerations and Operations: 3 CR
Content and Pedagogy for K-8 Teachers
Contact Hours:  3 + 0
Prerequisites: EDFN A621 and EDRD A603 and EDRD A610.
Examines concepts of elementary algebra and functions for developing algebra and pre-algebra skills in K-8 students. Emphasizes current research and standards-based instructional and assessment practices.

EDME A614  Numerations and Operations: 3 CR
Content and Pedagogy for K-8 Teachers
Contact Hours:  3 + 0
Prerequisites: (EDME A608 or concurrent enrollment) and (EDME A680 or concurrent enrollment).
Registration Restrictions: Certificated teacher and participant in the K-8 Math Endorsement.
Special Note: May not be applied as a substitute for any MATH prefix course.
Examines concepts of geometry and measurement and strategies for developing these skills in K-8 students. Emphasizes current research and standards-based instructional and assessment practices.

EDME A680  Geometry and Measurement: 3 CR
Content and Pedagogy for K-8 Teachers
Contact Hours:  3 + 0
Prerequisites: (EDME A608 or concurrent enrollment).
Registration Restrictions: Current Teaching Certificate.
Provides the content for K-8 teachers to understand numbers, the ways of representing numbers, relationships among numbers, number systems, meanings of operations and how they relate to one another. Current instructional and assessment practices in mathematics that are research and standards based and which lead to number sense, reasonable estimation strategies, and efficient computational skills for K-8 students will be emphasized.

EDME A684  Algebra and Functions: 3 CR
Content and Pedagogy for K-8 Teachers
Contact Hours:  3 + 0
Prerequisites: (EDME A608 or concurrent enrollment).
Registration Restrictions: Certificated teacher and participant in the K-8 Math Endorsement.
Special Note: May not be applied as a substitute for any MATH prefix course.
Examines underlying concepts of problem solving. Identifies problem-solving strategies that can be introduced into the elementary and middle school classroom. Develops teachers' understanding of algebra and functions for developing algebra and pre-algebra skills in K-8 students. Emphasizes current research and standards-based instructional and assessment practices.

EDME A685  Data Analysis and Probability: 3 CR
Content and Pedagogy for K-8 Teachers
Contact Hours:  3 + 0
Prerequisites: (EDME A608 or concurrent enrollment).
Registration Restrictions: Certificated teacher and participant in the K-8 Math Endorsement.
Special Note: May not be applied as a substitute for any STAT prefix course.
Examines fundamental concepts of calculus and trigonometry. Identifies ideas and problems that can be introduced into the elementary and middle school classroom. Develops teachers' understanding of concepts for K-8 classrooms. Emphasizes current research and standards-based instructional and assessment practices.

EDME A686  Capstone: Advanced Topics in Mathematics for the K-8 Teacher  3 CR
Contact Hours:  3 + 0
Prerequisites: (EDME A614 or concurrent enrollment) and (EDME A680 or concurrent enrollment) and (EDME A684 or concurrent enrollment) and (EDME A685 or concurrent enrollment) and (EDME A686 or concurrent enrollment).
Registration Restrictions: Certificated teacher and participant in the K-8 Math Endorsement.
Special Note: Must be taken solely, or concurrently with other math endorsement courses, during the final semester of the math endorsement program. May not be applied as a substitute for any MATH prefix course.
Advanced topics, such as abstract algebra, discrete mathematics, elementary number theory, linear algebra, or topology, adapted for the K-8 classroom. Develops teachers' understanding of concepts for K-8 classrooms. Emphasizes current research and standards-based instructional and assessment practices.

EDRD - EDUCATION - READING
Offered through the College of Education
Professional Studies Building (PSB), Room 220, 786-4481
http://coe.uaa.alaska.edu/tldept

EDRD A603  Developing Literacy: Early Childhood through Grade Twelve  3 CR
Contact Hours:  3 + 0
Prerequisites: EDFN A621.
Registration Restrictions: Current Teaching Certificate.
Study of the development of literacy from early childhood to grade twelve. Course work emphasis on continuum of reading, writing development, underlying social and cognitive processes, and the pedagogical implications based on literacy theory.

EDRD A604  Content Area Literacy  3 CR
Contact Hours:  3 + 0
Prerequisites: EDFN A621 and EDRD A603 and EDRD A610.
Registration Restrictions: Current Teaching Certificate.
The development of knowledge of reading strategies that support literacy in the content area/disciplines for Kindergarten through grade twelve teachers. Focus will be on the interrelated processes of writing, reading, listening, and speaking in the literacy development of students across curricular areas. Emphasis will be given to the use of technology as a tool to enhance content area literacy. The role of teacher as researcher will also be explored.
EDRD A606  **Instruction and Assessment in Reading I**  3 CR  
Contact Hours: 2 + 3  
Prerequisites: EDFN A621 and EDRD A663 and EDRD A610.  
Registration Restrictions: Current Teaching Certificate.  

The teaching and assessment of reading, utilizing effective research-based practices for a broad range of students in Kindergarten through grade twelve. Students will develop competencies in assessment and instruction that are consistent with multiple models of reading. Strategies for instruction, school-wide literacy programs, multiple assessments and ways to communicate results of assessments are features of this course. The alignment of instruction with national standards, as well as Alaska Standards for English/Language Arts/Reading, is addressed.

EDRD A609  **Instruction and Assessment in Reading II**  3 CR  
Contact Hours: 2 + 3  
Prerequisites: EDRD A606.  
Registration Restrictions: Current Teaching Certificate.  

The teaching and assessment of reading in grades Kindergarten through twelve, with a specific focus on the reading behaviors of individual students, and effective practices associated with developing those students’ skills. The emphasis of this course is on understanding reading difficulties, the analysis and use of information from reading assessments, the development of individual instructional plans, and communication of meaningful data to multiple audiences. Students will utilize multiple models of reading and focus on those factors that contribute to variations in reading ability.

EDRD A610  **Reading and Cognition**  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Current Teaching Certificate.  

Focus on the theory and process of reading and cognition, particularly the relationship between reading and thinking. Students also explore issues related to the meaning of text and the development of comprehension for Kindergarten through grade twelve students. A review of the literature concerning research and theory about processes is a key element of the course.

EDRD A618  **Literature and Reading: Supporting Readers in Grades K-12**  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Current Teaching Certificate.  

Focus on reading, analyzing, and designing ways to use a wide variety of literature to support readers in Kindergarten through grade twelve. Critical and personal response to literature, knowledge of a wide range of appropriate reading material, classroom applications, and interdisciplinary study using children’s literature will be a major feature of this course.

**EDRS - EDUCATION - RESEARCH**

Offered through the College of Education
Professional Studies Building (PSB), Room 220, 786-4481
http://coe.uaa.alaska.edu/tldept

EDRS A663  **Research Design**  2 CR  
Contact Hours: 2 + 0  
Prerequisites: EDRS A660.  
Registration Restrictions: Graduate standing.  
Special Fees.  
Introduction to research design, with an emphasis on developing viable research proposals.

EDRS A664  **Developing and Writing Literature Reviews**  2 CR  
Contact Hours: 2 + 0  
Prerequisites: EDFN A660.  
Registration Restrictions: Graduate standing.  
Special Fees.  
Focuses on developing skills in reviewing professional literature. Participants will develop and practice the skills of literature search, organization, review and synthesis, resulting in a narrative survey of academic literature for a focused topic area.

EDRS A666  **Program Evaluation**  2 CR  
Contact Hours: 2 + 0  
Prerequisites: EDRS A660.  
Registration Restrictions: Graduate standing.  
Introduces purpose, process, and utility of program evaluation. Emphasizes models, standards and types of program evaluation.

EDRS A667  **Introduction to Qualitative Research in Education**  2 CR  
Contact Hours: 2 + 0  
Prerequisites: EDRS A660.  
Registration Restrictions: Graduate standing.  
Fundamentals of qualitative research methods. Addresses major qualitative research traditions, common and developing issues, and essential processes.

**EDSA - EDUCATION - SCHOOL-AGE CARE**

Offered through the College of Education
Professional Studies Building (PSB), Room 220, 786-4481
http://coe.uaa.alaska.edu/edleadership

EDSA A202  **School-Age Care Program Planning**  2 CR  
Contact Hours: 2 + 0  
Prerequisites: EDS A101 and EDSA A102 and EDSE A212 and PSY A245.  
Provides introduction to theory, approaches and practice in developing programs for diverse groups of children in school-age care.

EDSA A212  **Program Development for School-Age Care**  2 CR  
Contact Hours: 2 + 0  
Prerequisites: EDSA A202.  
Provides more advanced approaches, methods and evaluation strategies for school-age care programs.

EDSA A234  **Administration and Supervision for School-Age Care**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: EDSE A212 and PSY A245.  
Provides theory and practice in administration of school-age care programs, including staff supervision, community relations, leadership and fiscal management.

EDSA A290  **Special Topics School-Age Care**  1 CR  
Contact Hours: 1 + 0  
Prerequisites: EDS A212 and PSY A245.  
Special Note: May be repeated for credit with change in subtitle.  
Provides opportunity to address theory and practice in special and emerging topics of interest to school-age care providers and administrators.
EDSA A295A  Practicum for School-Age Care  2 CR
Contact Hours: 0 + 10
Prerequisites: EDSA A101 and EDSA A102 and EDEC A242 and PSY A245.
Registration Restrictions: Department approval.
Corequisite: EDSA A202.
Grade Mode: Pass/No Pass.
Supervised field experience in school-age care. Students develop, implement and evaluate elements of a comprehensive, developmentally appropriate care, recreation and learning environment.

EDSA A295B  Advanced Practicum for School-Age Care  1 CR
Contact Hours: 0 + 5
Prerequisites: EDSA A212 and EDEC A242 and PSY A245.
Registration Restrictions: Department approval.
Corequisite: EDSA A234.
Grade Mode: Pass/No Pass.
Supervised field experience in school-age care. Students develop, implement and evaluate elements of a comprehensive, developmentally appropriate care, recreation and learning environment.

EDSE - EDUCATION - SPECIAL EDUCATION
Offered through the College of Education
Professional Studies Building (PSB), Room 225, 786-6317
http://coe.uaa.alaska.edu/coun

EDSE A212  Human Development and Learning  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Department approval.
Corequisite: EDSE A212L.
Special Fees.
Emphasizes cognitive, physical, emotional, social, and communicative development of children and youth. Patterns and sequences of development are explored in terms of learning that is occurring in the home, school, or neighborhood. Students will become familiar with the major categories of disability. The information provided will be reviewed in relation to formal and informal school learning, including the need for accommodations, teaching, and curricular requirements and modifications.

EDSE A212L  Human Development and Learning Lab  1 CR
Contact Hours: 0 + 2
Registration Restrictions: Departmental approval.
Corequisite: EDSE A212.
Grade Mode: Pass/No Pass.
Special Fees.
Laboratory experience that extends the understanding of linguistic, cognitive, affective, social, and physical development of children gained from EDSE A212, Human Development and Learning. Includes observations in settings such as early intervention sites, pre-schools, elementary schools, and private and public agencies delivering to young children.

EDSE A215  Introduction to Inclusive Early Education: Strategies  3 CR
Contact Hours: 3 + 0
Special Fees.
Introduction to early childhood settings which include children with special needs. Overview of inclusive strategies in the classroom, home, and community. Includes introduction to the Individualized Family Service Plan, Individual Education Plan, and interdisciplinary team roles.

EDSE A216  Family and Community Issues: Supporting a Child with Special Needs  3 CR
Contact Hours: 3 + 0
Special Fees.
Introduction to family and community dynamics in caring for and supporting children, birth to age eight, with special needs. Includes study of preventive strategies, rural settings and cultural issues.

EDSE A217  Behavioral Health: Young Children with Special Needs  3 CR
Contact Hours: 3 + 0
Special Fees.
Examination of behavioral health of children with special needs from birth to age eight. Topics include introduction to identification; classification of diagnosis; impact of special needs on behavior; child abuse and neglect; inclusion of children with challenging behaviors; team approach in behavioral health.

EDSE A219  Early Childhood Special Needs: Applied Communication Strategies  3 CR
Contact Hours: 3 + 0
Special Fees.
Overview of basic components of early childhood communication disorders: speech sound development, grammar, vocabulary, nonverbal communication, and language disorders. Applied techniques with hands-on material preparation and practice with paraprofessional screening tools. Intervention techniques appropriate in early childhood settings that include children with special needs.

EDSE A410  Assessing Students with Disabilities  3 CR
Contact Hours: 3 + 0
Prerequisites: ED A301 and EDSE A482 and (ED A425 or concurrent enrollment) and (ED A426 or concurrent enrollment).
Registration Restrictions: Department approval required; Admission to the College of Education; Admission to the Special Education Program.
Corequisite: EDSE A482.
Techniques and methods for assessing students having disabilities. Focuses on the purpose and assumption of assessment; testing terminology and statistics; and the administration and interpretation of formal and informal assessment procedures. Course includes field experience.

EDSE A412  Curriculum and Strategies I: Low Incidence  3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Departmental approval required; Admission to the College of Education; Admission to the Special Education Program.
Corequisite: EDSE A482.
Development, implementation, and evaluation of IEPs for students with Intensive Needs (e.g., Autism, Multiple Disabilities, Physical Disabilities). Provides in-depth understanding of best practice strategies for supporting students with low incidence disabilities. Course includes field experience.

EDSE A419  Diversity in the Classroom  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to College of Education.
Special Fees.
Examination of diversity issues that impact education including linguistic and cultural considerations as well as disabilities. Course includes instructional methods and practices that enhance learning.

EDSE A422  Curriculum and Strategies II: High Incidence  3 CR
Contact Hours: 3 + 0
Prerequisites: ED A301 and EDSE A482 and (ED A425 or concurrent enrollment) and (ED A426 or concurrent enrollment).
Registration Restrictions: Departmental approval required; Admission to the Special Education Program.
Corequisite: EDSE A482.
Methods of instruction and strategies for addressing the needs of students with mild learning and behavior problems. A theoretical basis for selecting approaches is presented along with practical strategies that can be used in the classroom. Course includes field experience.

EDSE A474  Special Children from Birth through Five  3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: Students are expected to participate in experiences outside regular class periods (15 hours). Legislative, historical, and philosophical perspectives of early childhood special education. Includes principles and procedures for developing infant learning and preschool programs for children with special needs.

EDSE A480  Culture, Schools, and Society  3 CR
Contact Hours: 3 + 0
Prerequisites: ED A321.
Interdisciplinary study of cultural issues in contemporary schools and society. Considers the psychological and social factors in the educational process. Specific attention given to curricular improvement and teaching strategies appropriate for diverse populations.
EDSE A482  Inclusive Classrooms for All Children 3 CR
Contact Hours: 3 + 0
Special Fees.
Provides an in-depth understanding of concepts, strategies, and issues that surround supporting the needs of students who experience disabilities in the general education classroom. Course includes field experience.

EDSE A483  Language and Literacy: Assessment and Interventions 3 CR
Contact Hours: 3 + 0
Focuses on literacy development for children who have special needs, are linguistically and culturally diverse, and/or at-risk for learning problems. The relationship among language, reading, and writing is explored. Topics include assessment, instructional strategies, Individualized Education Program (IEP) development, and models of literacy programs.

EDSE A484  Collaboration and Partnerships between Parents and Professionals 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Departmental approval required; Admission to the Special Education Program.
Provides professionals with an in-depth understanding of concepts, strategies, and issues that surround working with families and other collaborative partners of students who experience disabilities. The course presents concepts and strategies necessary to prepare students for effective collaborative partnerships including family-professional interactions. Course includes field experience.

EDSE A495A  Beginning Internship in Special Education 3 CR
Contact Hours: 0 + 9
Prerequisites: EDSE A482.
Registration Restrictions: Departmental approval required; Admission to Internship.
Grade Mode: Pass/No Pass.
Special Fees.
Field experience in public schools and affiliated facilities with individuals who have disabilities. Assignments vary across areas of teaching specialization. Includes weekly seminar.

EDSE A495B  Advanced Internship in Special Education 3 CR
Contact Hours: 1 + 6
Prerequisites: EDSE A495A.
Registration Restrictions: Departmental approval.
Grade Mode: Pass/No Pass.
Special Fees.
Advanced internship placement during which interns demonstrate increasing professional knowledge of and competence in teaching students with disabilities. Includes a weekly seminar.

EDSE A610  Clinical Assessment: Eligibility and Program Planning 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Provides a practical, applied approach for analyzing and synthesizing assessment for eligibility, program planning, and progress monitoring. Course includes techniques for formal and informal tools and procedures with a review of terminology and statistics. Emphasizes concepts related to assessment including response to intervention, culturally and linguistically diverse learners, academically diverse learners, and accommodations.

EDSE A610Y  Assessment: Early Childhood Special Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Techniques for assessing young children with special needs and their families. Historical development, basic purposes and assumptions of assessment, testing terminology and statistics, and the administration and interpretation of formal and informal procedures.

EDSE A611  Supporting Families of Exceptional Children 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Graduate standing.
Special Fees.
Focuses on families of children with exceptionalities. Examines factors that impact school-parent relationships. Focuses on developing and implementing strategies to initiate and maintain positive relationships between families and the school.

EDSE A614S  Beginning Internship in Speech-Language Pathology 1-12 CR
Contact Hours: 0 + 3-18
Registration Restrictions: Admission to Master’s program in speech-language pathology at the University of Northern Colorado or East Carolina University and to the internship. Special Fees.
Provides supervised beginning internship experiences in speech-language pathology.

EDSE A620S  Advanced Internship in Speech-Language Pathology 1-12 CR
Contact Hours: 0 + 3-18
Registration Restrictions: Admission to Master’s program in speech-language pathology at the University of Northern Colorado or East Carolina University and to the internship. Special Fees.
Provides supervised advanced internship experiences in speech-language pathology.

EDSE A620Y  Advanced Internship: Early Childhood 3-6 CR
Contact Hours: 1 + 6-15
Registration Restrictions: Admission to M.Ed. option in Early Childhood Special Education, instructor approval, and graduate standing.
Grade Mode: Pass/No Pass.
Special Fees.
Supervised field experience with exceptional children in Anchorage area facilities. Assignments vary across areas of specialization.

EDSE A622  Theories and Strategies 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Special Fees.
Provides in-depth understanding of best practices in instruction of students in special education. Links learning theories and learner characteristics to instructional strategies. Emphasizes inclusive educational settings and collaboration skills needed to work effectively with other professionals.

EDSE A622Y  Early Childhood Special Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Provides in-depth understanding of best-practice strategies in the field of early intervention. Presents concepts necessary to prepare students to work with infants, toddlers, and preschoolers with disabilities and their families.

EDSE A623  Language and Literacy: Best Practices in Assessment and Intervention 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Special Fees.
Current research on literacy acquisition, assessment, and intervention. Emphasizes use of evidence-based practices in assessment and intervention. Identifies the link between language and literacy development and intervention. Considers academic, cultural, and linguistic diversity.

EDSE A624  Social/Emotional Development, Assessment, and Intervention 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Special Fees.
Current research in both normal and abnormal social/emotional development. Emphasizes the use of research-based practices in assessment and intervention. Explores academic and cultural diversity in the social/emotional growth of students with learning differences.

EDSE A625  Teaching Mathematics to Special Learners 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Special Fees.
Provides assessment and instructional strategies in mathematics for teachers of students with disabilities. Focuses on standards-based instruction, explicit instruction, curriculum-based assessments, and preparation of students for high stakes testing.
EDSE A632 **Principles and Practices** 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing. Special Fees.
Examines three federal laws that form the foundation of disability law: Individuals with Disabilities Education Act (IDEA) 2004; Section 504 of the Rehabilitation Act of 1973; and the Americans with Disabilities Act. Focuses on substantive principles that underlie procedural requirements. Includes due process issues and case law analysis. Includes creation of a legally defensible Individual Educational Program (IEP).

EDSE A633 **Autism: Communication and Social Disorders** 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing. Special Fees.
Current methods for assessment and intervention for students with autism. Current issues and trends impacting educational practices are analyzed. Case study method used to make assessment and instructional decisions. Parent communication is emphasized.

EDSE A634 **Support and Supervision of Paraeducators** 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing. Special Fees.
Review and analysis of the literature on utilization, support, and supervision of paraeducators. Special attention is given to the knowledge and skills needed by supervising teachers. Course includes the benefits and concerns regarding utilization of paraeducators, and common problems and solutions are identified.

EDSE A637 **Inclusive Teaching and Learning in Secondary Schools** 2 CR
Contact Hours: 2 + 0
Prerequisites: EDFN A478 and EDFN A602. Registration Restrictions: Departmental approval required. Special Note: Concurrent enrollment in internship required.
Focuses on the inclusion of students with special learning needs and disabilities in the regular classroom. Attention will be paid to the philosophy of inclusion, compliance requirements promoting inclusiveness, developmental, and instructional needs of students with special education needs, and the role of the secondary teacher in providing appropriate classroom instruction for all the students in the inclusive classroom.

EDSE A670 **Topics in Special Education** 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Graduate standing. Special Fees.
Special Note: May be repeated with a change in subtitle. A maximum of 6 credits may be applied to a degree program.
Explores issues of concern to professionals in special education and related fields.

EDSE A674 **Families: Developing Parent Professional Partnerships** 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission and graduate standing. Special Fees.
Concepts and practices related to providing family-centered services to families who have a member who experiences a disability. Professionals will be provided with an in-depth understanding of concepts and strategies required to develop effective parent/professional partnerships.

EDSE A675 **Supervision** 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Graduate standing. Special Fees.
Provides a theoretical and practical overview of best practices in supervision in education, special education, and related services. The course provides opportunities to practice skills through interactive activities and case studies.

EDSE A676 **Special Education Finance** 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Graduate standing. Special Fees.
Focuses on sources and processes for funding special education and related services. Other financial management processes are included.

EDSE A681 **Issues in Early Childhood Special Education** 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing. Special Fees.
Special Note: Students are expected to participate in experiences outside of the regular class period (15 hours).
A critical study of theoretical and practical issues related to personal, curricular, cultural, political, coordination, and service delivery needs of young children who experience disabilities and their families.

EDSE A685 **Young Children with Complex Needs** 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing. Special Fees.
Professionals working with families and their young children, who experience severe medical-complex needs, will acquire basic knowledge and awareness of medical, educational, and health issues.

EDSE A690 **Advanced Seminar: Special Education** 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing. Special Fees.
Special Note: Intended for the post special education certification/master’s student with field experience. The content of the course varies and it may be repeated for credit.
Current issues of concern to professionals in special education and related fields. Issues include ethics, philosophy, multidisciplinary emphasis, assessment and intervention approaches, and new directions in the field of special education.

EDSE A695D **Internship: Special Education Administration** 3-6 CR
Contact Hours: 0 + 15-30
Prerequisites: EDL A638 and EDRS A667 and EDSE A632 and EDSE A675 and EDSE A676. Registration Restrictions: Departmental approval, admission to internship. Grade Mode: Pass/No Pass. Special Fees.
Field-based experience in the administration, supervision, and coordination of services for students with disabilities and their families.

EDSE A695E **Advanced Internship in Special Education: Elementary** 3-6 CR
Contact Hours: 0 + 9-18
Registration Restrictions: Graduate standing. Departmental approval. Grade Mode: Pass/No Pass. Special Fees.
Special Note: Must apply by specified deadline—see advisor.
Supervised internship in elementary school settings with children with disabilities.

EDSE A695S **Advanced Internship in Special Education: Secondary** 3-6 CR
Contact Hours: 0 + 9-18
Registration Restrictions: Graduate standing. Departmental approval. Grade Mode: Pass/No Pass. Special Fees.
Special Note: Must apply by specified deadline—see advisor.
Supervised internship in secondary school settings with children with disabilities.

EDSE A698 **Individual Research** 1-6 CR
Contact Hours: 0 + 3-18
Prerequisites: ED A627. Grade Mode: Pass/No Pass. Special Fees.
As directed by graduate committee.

EDSE A699 **Thesis** 1-6 CR
Contact Hours: 0 + 3-18
Prerequisites: ED A627. Grade Mode: Pass/No Pass. Special Fees.
As directed by graduate committee.
EDSY - EDUCATION - SECONDARY EDUCATION

Offered through the College of Education
Professional Studies Building (PSB), Room 220, 786-4881
http://coe.uaa.alaska.edu/secondary

EDSY A630 Language, Culture, and Teaching in Secondary Schools 2 CR
Contact Hours: 2 + 0
Prerequisites: EDFN A478 and EDFN A602.
Registration Restrictions: Departmental approval required.
Special Fees.
Special Note: Concurrent enrollment in internship required.
Examines multicultural education as the responsibility of all educators. Focuses on second language acquisition, and how culture influences language and literacy development. Discusses the cognitive academic language demands of content area classrooms. Emphasis is placed on integrating research-based teaching strategies for supporting all aspects of cognitive academic language development, including reading, oral language, writing, and visual literacy. Includes the importance of culturally responsive teaching as an integral component of the learning environment.

EDSY A644 Developing a Community of Learners in Middle/High School 3 CR
Contact Hours: 3 + 0
Prerequisites: EDFN A478 and EDFN A602.
Registration Restrictions: Departmental approval required.
Special Fees.
Special Note: Concurrent enrollment in internship required.
Focuses on the development of professional teaching dispositions and practices appropriate for secondary curricula. Integrates technology and all forms of literacy.

EDSY A648 Developing Literacies in the Secondary Content Areas 1 CR
Contact Hours: 1 + 0
Prerequisites: EDFN A467.
Registration Restrictions: Departmental approval required.
Special Fees.
Special Note: Concurrent enrollment in internship required.
Focuses on supporting 7-12 student development in multiple literacies, including visual, literary, and performing arts. Content area instruction and assessment strategies for multiple literacies.

EDSY A661 General Methods for Secondary Classrooms 3 CR
Contact Hours: 3 + 0
Prerequisites: EDFN A601 with minimum grade of C and EDFN A602 with minimum grade of C and EDFN A603 with minimum grade of C.
Registration Restrictions: Departmental approval required.
Special Fees.
Special Note: Concurrent enrollment in internship required.
Fundamentals of methodology, standards-based curriculum planning, and assessment for the diverse student populations in middle and high school classrooms. Focuses on the development of professional teaching dispositions and practices appropriate for secondary curricula. Integrates technology and all forms of literacy.

EDSY A663 Teaching English/Language Arts in Secondary Schools 3 CR
Contact Hours: 3 + 0
Prerequisites: EDFN A601 with minimum grade of C and EDFN A602 with minimum grade of C and EDFN A603 with minimum grade of C.
Registration Restrictions: Departmental approval required.
Special Fees.
Special Note: Concurrent enrollment in internship is required.
Fundamentals of standards-based, integrated curriculum planning and assessment for the diverse student populations in secondary English/Language Arts classrooms. Focuses on the development of professional teaching dispositions and practices appropriate for secondary English/Language Arts curricula. Integrates technology and all forms of literacy.

EDSY A664 Teaching Social Studies in Secondary Schools 3 CR
Contact Hours: 3 + 0
Prerequisites: EDFN A601 with minimum grade of C and EDFN A602 with minimum grade of C and EDFN A603 with minimum grade of C.
Registration Restrictions: Departmental approval required.
Special Fees.
Special Note: Concurrent enrollment in internship is required.
Fundamentals of standards-based, integrated curriculum planning and assessment for the diverse student populations in secondary social studies classrooms. Focuses on the development of professional teaching dispositions and practices appropriate for social studies curricula. Integrates technology and all forms of literacy.

EDSY A665 Teaching Mathematics in Secondary Schools 3 CR
Contact Hours: 3 + 0
Prerequisites: EDFN A601 with minimum grade of C and EDFN A602 with minimum grade of C and EDFN A603 with minimum grade of C.
Registration Restrictions: Departmental approval required.
Special Fees.
Special Note: Concurrent enrollment in internship is required.
Fundamentals of standards-based, integrated curriculum planning and assessment for the diverse student populations in secondary mathematics classrooms. Focuses on the development of professional teaching dispositions and practices appropriate for secondary mathematics curricula. Integrates technology and all forms of literacy.

EDSY A666 Teaching World Language in Secondary Schools 3 CR
Contact Hours: 3 + 0
Prerequisites: EDFN A601 with minimum grade of C and EDFN A602 with minimum grade of C and EDFN A603 with minimum grade of C.
Registration Restrictions: Departmental approval required.
Special Fees.
Special Note: Concurrent enrollment in internship is required.
Fundamentals of standards-based, integrated curriculum planning and assessment for the diverse student populations in secondary world language classrooms. Focuses on the development of professional teaching dispositions and practices appropriate for secondary world language curricula. Integrates technology and all forms of literacy.

EDSY A667 Teaching English as a Second Language in Secondary Schools 3 CR
Contact Hours: 3 + 0
Prerequisites: EDFN A601 with minimum grade of C and EDFN A602 with minimum grade of C and EDFN A603 with minimum grade of C.
Registration Restrictions: Departmental approval required.
Special Fees.
Special Note: Concurrent enrollment in internship is required.
Fundamentals of standards-based, integrated curriculum planning and assessment for the diverse student populations in secondary classrooms. Includes content areas typically taught in secondary English as a Second Language/bilingual curriculum. Focuses on the development of professional teaching dispositions and practices appropriate for secondary curricula. Integrates technology and all forms of literacy.

EDSY A669 Teaching Science in Secondary Schools 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Departmental approval required.
Special Fees.
Special Note: Concurrent enrollment in internship is required.
Fundamentals of standards-based, integrated curriculum planning and assessment for the diverse student populations in secondary science classrooms. Focuses on the development of professional teaching dispositions and practices appropriate for a safe and humane inquiry-based secondary science learning environment that emphasizes the learner, the content, the context and the community. Integrates technology and all forms of literacy.

EE - ELECTRICAL ENGINEERING

Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900
www.engr.uaa.alaska.edu

EE A102 Introduction to Electrical Engineering 3 CR
Contact Hours: 2 + 3
Prerequisites: (MATH A200 or concurrent enrollment).
Special Fees.
Special Note: Offered Fall Semesters.
Introduces components, circuits, and methods of analysis of DC electrical systems and devices.
EE A203  
Fundamentals of Electrical Engineering I 4 CR  
Contact Hours: 3 + 3  
Prerequisites: EE A102 and MATH A200 and (MATH A201 or concurrent enrollment). Special Fees.  
Special Note: Offered Spring Semesters.  
Introduces components, circuits, and methods of analysis of DC and AC electrical systems and devices using impedance and complex notation, frequency response, and Laplace analysis. Covers resonance, filters, power, transformers, and three phase circuits.

EE A204  
Fundamentals of Electrical Engineering II 4 CR  
Contact Hours: 3 + 3  
Prerequisites: MATH A201 and EE A203. Special Fees.  
Special Note: Offered Fall Semesters.  
Introduces electronic devices, their characteristics, uses, and limitations. Covers methods of analysis of circuits containing solid state devices including diodes, bipolar junction transistors, field effect transistors, and operational amplifiers. Covers design and operation of primitive digital devices including logic gates and analog/digital converters.

EE A241  
Computer Hardware Concepts 4 CR  
Contact Hours: 3 + 3  
Prerequisites: CS A201 and [MATH A107 or MATH A172]. Crosslisted with: CS A241. Special Fees.  
Analysis and design of electronic devices used as building blocks for construction of simple digital systems. Presents formats for data storage, number systems and numeric codes, and methods of implementing logical and arithmetic operations within computers. Relates hardware component's capabilities and limitations to design requirements for computer processing, memory, and control functions.

EE A308  
Instrumentation and Measurement 3 CR  
Contact Hours: 2 + 3  
Prerequisites: ES A309. Crosslisted with: ME A308.  
Instrumentation theory and concepts of digital and analog devices, transducers, data sensing transmission, recording, and display, instrumentation system, remote sensing, and hostile environmental conditions.

EE A314  
Electromagnetics 3 CR  
Contact Hours: 3 + 0  
Prerequisites: PHYS A212 and PHYS A212L and MATH A302. Crosslisted with: PHYS A314.  
Electromagnetic theory and applications. Static electric fields in free space and material media; steady current systems and associated magnetic effects. Includes magnetostatics, Maxwell's Equations, electromagnetic radiation, transmission lines and relativity.

EE A314L  
Electromagnetics Laboratory I 1 CR  
Contact Hours: 0 + 3  
Corequisite: EE A314.  
Laboratory experiments in transmission lines, impedances, bridges, scattering parameters, hybrids, and waveguides.

EE A324  
Electromagnetics II 3 CR  
Contact Hours: 3 + 0  
Prerequisites: [EE A314 or PHYS A314] and MATH A302. Crosslisted with: PHYS A324.  
Use of Maxwell's equations in analysis of plane wave propagation, wave reflection, radiation and antennas, waveguides, cavity resonators, transmission lines, and radio propagation.

EE A324L  
Electromagnetics Laboratory II 1 CR  
Contact Hours: 0 + 3  
Corequisite: EE A324.  
Laboratory experiments using Maxwell's equations in analysis of plane wave propagation, wave reflection, radiation and antennas, waveguides, cavity resonators, transmission lines, and radio propagation.

EE A335  
Circuit Theory 3 CR  
Contact Hours: 3 + 0  
Prerequisites: EE A203 and MATH A302.  
Circuit analysis by application of Laplace transform, state variable, Fourier methods, and includes convolution, frequency selective networks, and two-port circuits.

EE A354  
Engineering Signal Analysis 3 CR  
Contact Hours: 3 + 0  
Prerequisites: EE A353 and MATH A302.  
Analysis using discrete time signals and Fast Fourier Transform (FFT), random signals and noise, analog signals and Fourier transform. Application of probability theory and random variables to analog and discrete signals.

EE A407  
Power Distribution 3 CR  
Contact Hours: 3 + 0  
Prerequisites: EE A308 and EE A351.  
Analysis of electrical power distribution and control systems, power flow control, symmetrical faults, power interruption, voltage variations, distributed generation, and economic dispatch with computer-aided analysis.

EE A408  
Dynamics of Systems 3 CR  
Contact Hours: 2 + 3  
Prerequisites: [ENGR A161 or ES A201] and [ES A208 or ES A210] and MATH A302. Crosslisted with: ME A408.  
Response of mechanical systems to internal and external forces. Free and forced vibration, random vibration. Discrete and continuous systems. Vibration parameter measurements and stability criteria.

EE A438  
Design of Electrical Engineering Systems 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Student must be in senior year of BSE degree program or obtain faculty permission. Completion of GER Tier 1 (Basic College-level Skills) courses. Course Attributes: UAA GER Integrative Capstone.  
Capstone course in which electrical engineering students design an electrical engineering component or system starting with the initial design specification to the implementation and testing. Students apply knowledge and skills learned in their undergraduate curriculum.

EE A441  
Integrated Circuit Design 3 CR  
Contact Hours: 3 + 0  
Prerequisites: EE A204 and CHEM A105 and PHYS A303.  
Develops the design and fabrication of integrated circuits (IC's) used in computer electronics. Describes the material properties, methods of charge transport, energy exchanges within the devices, fundamentals of device fabrication for common device families, and fabrication process capabilities and limits. Electrical characteristics, timing considerations, heat and power considerations, and reliability of IC devices are analyzed and evaluated.

EE A462  
Communication Systems 3 CR  
Contact Hours: 3 + 0  
Prerequisites: EE A351 and STAT A307.  
Develops the theory behind the design and operation of electronic communication systems. Includes the mathematical representation of signals and system components and their interaction. Covers power spectra, modulation techniques, frequency response of media and components, detection and recovery of information, and the effects of noise.

EE A465  
Telecommunications 3 CR  
Contact Hours: 3 + 0  
Prerequisites: EE A351.  
Emphasis in data transmission, guided and wireless transmission, signal encoding, digital data, multiplexing, and circuit and packet switching. Analyze data communications, networking, protocols, and standards.

EE A471  
Automatic Control 3 CR  
Contact Hours: 3 + 0  
Prerequisites: EE A351 and MATH A302. Crosslisted with: ME A471.  
Use of linear system representation by transfer functions, signal flow graphics, and state equations. Feedback, time and frequency response of linear systems. Stability analysis by Routh-Hurwitz criterion and frequency domain methods, and system design and compensation.

EMT A110  
Emergency Trauma Technician 3 CR  
Contact Hours: 2 + 2  
Special Fees.  
Alaska State certified basic emergency medical course beyond advanced first aid. Emphasizes prevention, assessment, and care of injury and illness commonly encountered in both urban and rural settings.

Course Descriptions

Offered through the Community and Technical College
Allied Health Sciences Building (AHS), Room 165, 786-6476
www.uaa.alaska.edu/ctc/alliedhealth/fire

EMT A110  
Emergency Trauma Technician 3 CR  
Contact Hours: 2 + 2  
Special Fees.  
Alaska State certified basic emergency medical course beyond advanced first aid. Emphasizes prevention, assessment, and care of injury and illness commonly encountered in both urban and rural settings.
EMT A130  Emergency Medical Technician I  6 CR
Contact Hours: 4 + 4
Registration Restrictions: Provide evidence of professional CPR training and certification that includes adult, child, and infant CPR and airways obstruction relief maneuvers, including two rescuer CPR and barrier devices.
Special Fees.
Special Note: Students must have the strength to be able to move victims, sufficient vision to assess condition of victims, and dexterity to perform the skills application procedures.
Provides the necessary training to become state or nationally registered as an EMT I, which is optional. Presents skills for proficiency in victim assessment, recognition, and treatment of medical emergencies and other basic life support procedures. Includes practicum experience in hospitals, emergency rooms, or other sites.

EMT A230  Emergency Medical Technician II  3 CR
Contact Hours: 2 + 2
Prerequisites: EMT A130.
Registration Restrictions: Must be certified as a State of Alaska EMT I or Nationally Registered EMT-Basic (comity is required). Current healthcare provider CPR card; Documentation of 10 patient contacts since becoming a certified EMT and a DHSS-approved sponsoring physician.
Special Fees.
Special Note: Students desiring Alaska certification must pass, within one year after completing the education program, the written and practical examination for Emergency Medical Technician II administered by Community Health and Emergency Medical Services (CHEMS). In order to obtain a State of Alaska EMT II certification, the student must obtain a CHEMS-approved physician sponsor.
Provides the EMT I with added skills of advanced airway, specialized tourniquets, and intravenous treatment.

EMT A231  Emergency Medical Technician III  3 CR
Contact Hours: 2 + 2
Prerequisites: EMT A130 and EMT A230.
Registration Restrictions: Currently certified in Alaska as an EMT II, documented 10 patient contacts and 10 intravenous sticks.
Special Fees.
Special Note: Students desiring Alaska certification must pass, within one year after completing the education program, the written and practical examination for Emergency Medical Technician III administered by the Community Health and Emergency Medical Services (CHEMS).
Emphasizes knowledge and skills necessary to apply electrodes and monitor cardiac activity, defibrillate life-threatening arrhythmias, and administer specific pharmacological agents.

ENGL - ENGLISH
Offered through the College of Arts and Sciences Administration/Humanities Building (ADM), Suite 101, 786-4355
http://english.uaa.alaska.edu

ENGL A109  Introduction to Writing in Academic Contexts  3 CR
Contact Hours: 3 + 0
Prerequisites: PRPE A086 with minimum grade of C or [COMPASS E-Write (1-12 scale) with score of 08 and COMPASS Reading Skills with score of 75] or [Accuplacer-Reading Comp with score of 070 and Accuplacer-Sentence Skills with score of 080].
Registration Restrictions: Meet Prerequisite or appropriate score on English Placement Test.
Special Fees.
Preparation for ENGL A111 and alternative to PRPE A108. Introduces academic essay writing and technology skills in a computer classroom. Develops practical skills for writing and revising, including review of grammar and punctuation.

ENGL A111  Methods of Written Communication  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A109 with minimum grade of C or PRPE A108 with minimum grade of C or [COMPASS E-Write (1-12 scale) with score of 10 and COMPASS Reading Skills with score of 75] or [Accuplacer-Reading Comp with score of 085 and Accuplacer-Sentence Skills with score of 095] or SAT Critical Reading Score with score of 530 or SAT Verbal Score with score of 530 or Enhanced ACT English with score of 22 or Original ACT English with score of 22 or ACT English with score of 22 or SAT Verbal with score of 530.
Registration Restrictions: Appropriate score on English Placement Test, SAT Verbal Section, or ACT English Test will waive the ENGL A109 or PRPE A108 prerequisite.
Course Attributes: UAA GER Written Communication.
Special Fees.
Special Note: Offered Fall and Spring Semesters.
Instruction in composition of expository essays with emphasis on different techniques for organization and development. Documented paper required. Readings in some sections may be coordinated with another discipline.

ENGL A116  Writing Life Stories  3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Students will learn to write and record family history from a personal perspective, to preserve newspaper clippings and photos, and create a genealogical chart for their family.

ENGL A120  Critical/Creative Thinking  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Average reading skills recommended.
Introductory course emphasizing principles and techniques of thinking better.
Focuses on critical and creative thinking and problem solving strategies.

ENGL A211  Academic Writing About Literature  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: UAA GER Humanities Requirement.
Introductory course for majors and non-majors. Emphasizes understanding literature, forming critical vocabulary, and developing critical judgment. Selected masterpieces from the Renaissance to the present.

ENGL A201  Masterpieces of World Literature I  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: UAA GER Humanities Requirement.
Introductory course for majors and non-majors. Emphasizes understanding literature, forming critical vocabulary, and developing critical judgment. Selected masterpieces from ancient times through the Renaissance.

ENGL A202  Masterpieces of World Literature II  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: UAA GER Humanities Requirement.
Introductory course for majors and non-majors. Emphasizes understanding literature, forming critical vocabulary, and developing critical judgment. Selected masterpieces from the Renaissance to the present.

ENGL A110  Introduction to Literature  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A109 with minimum grade of C or PRPE A108 with minimum grade of C or [COMPASS E-Write (1-12 scale) with score of 10 and COMPASS Reading Skills with score of 75] or [Accuplacer-Reading Comp with score of 085 and Accuplacer-Sentence Skills with score of 095] or SAT Critical Reading Score with score of 530 or SAT Verbal Score with score of 530 or Enhanced ACT English with score of 22 or Original ACT English with score of 22 or ACT English with score of 22 or SAT Verbal with score of 530.
Registration Restrictions: Appropriate score on English Placement Test, SAT Verbal Section, or ACT English Test will waive the ENGL A109 or PRPE A108 prerequisite.
Course Attributes: UAA GER Written Communication.
Special Fees.
Special Note: Offered Fall and Spring Semesters.
Instruction in composition of expository essays with emphasis on different techniques for organization and development. Documented paper required. Readings in some sections may be coordinated with another discipline.

ENGL A116  Writing Life Stories  3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Students will learn to write and record family history from a personal perspective, to preserve newspaper clippings and photos, and create a genealogical chart for their family.
ENGL A212  Technical Writing  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A111 with minimum grade of C or ENGL A1W with minimum grade of C or ENGL A2W with minimum grade of C or ENGL A3W with minimum grade of C or SAT Critical Reading Score with score of 620 or SAT Verbal Score with score of 620 or Enhanced ACT English with score of 30 or Original ACT English with score of 30.  Registration Restrictions: If prerequisite is not satisfied, appropriate SAT, ACT, or AP scores or approved UAA placement test required.  Course Attributes: UAA GER Written Communication.  Special Fees:  Instruction in basic communicative purposes, forms, styles, and visual elements commonly used by professionals who write and edit technical documents.  Provides experience in writing and editing in a collaborative environment.  Requires a research report and APA documentation style.

ENGL A213  Writing in the Social and Natural Sciences  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A111 with minimum grade of C or ENGL A1W with minimum grade of C or ENGL A2W with minimum grade of C or ENGL A3W with minimum grade of C or SAT Critical Reading Score with score of 620 or SAT Verbal Score with score of 620 or Enhanced ACT English with score of 30 or Original ACT English with score of 30.  Course Attributes: UAA GER Written Communication.  Special Fees:  Instruction in academic writing based on close analysis of readings in various disciplines, primarily the social and natural sciences.  Develops a broad range of expository writing skills, including composition of the empirical report.  APA research paper required.

ENGL A214  Persuasive Writing  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A111 with minimum grade of C or ENGL A1W with minimum grade of C or ENGL A2W with minimum grade of C or ENGL A3W with minimum grade of C or SAT Critical Reading Score with score of 620 or SAT Verbal Score with score of 620 or Enhanced ACT English with score of 30 or Original ACT English with score of 30.  Course Attributes: UAA GER Written Communication.  Special Fees:  Instruction in writing based on theories of persuasion and argument practiced in disciplines across the curriculum.  Focuses on the rhetorical issues of audience, invention, evidence, and style.  Develops a broad range of analytical, descriptive, and persuasive skills, with special attention to their application in a variety of academic environments.  Research-supported papers required.  Selection of readings may be coordinated with another discipline.

ENGL A301  Literature of Britain I  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C.  Course Attributes: UAA GER Humanities Requirement.  Special Note:  Study of significant writers of Britain from Anglo-Saxon times to the Restoration.

ENGL A302  Literature of Britain II  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C.  Course Attributes: UAA GER Humanities Requirement.  Special Note:  Study of significant writers of Britain from the Restoration to the present.

ENGL A305  National Literatures in English  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C.  Course Attributes: UAA GER Humanities Requirement.  Special Note:  Applies only toward national literatures requirements for English majors; may be repeated once for elective credit with a change of subtitle.  ENGL A201 and A202 recommended.  Study of selected national literatures composed in English, excluding the literature of England and the United States.  Each offering examines the literature of a particular "nation" — a group of people or peoples united by multiple factors such as common descent, language, culture, government, history, geographical location — in which publication is largely in the English language.  Examples include literature of Canada, Ireland, Scotland, Australia, New Zealand, Nigeria, or the Caribbean.  The selected focus of each course offering is identified in the subtitle.

ENGL A306  Literature of the United States I  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C.  Course Attributes: UAA GER Humanities Requirement.  Study of significant writers of the United States focusing primarily on the 19th century and including literature that reflects important cultural, historical, political, and aesthetic forces.

ENGL A307  Literature of the United States II  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C.  Course Attributes: UAA GER Humanities Requirement.  Study of significant writers of the United States focusing primarily on the 20th century and including literature that reflects important cultural, historical, political, and aesthetic forces.

ENGL A310  Ancient Literature  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C.  Course Attributes: UAA GER Humanities Requirement.  Special Note:  Offered Spring Semesters.  Selected Biblical texts and Classical Western and ancient Oriental literature in English translations.

ENGL A311  Advanced Composition  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C.  Course Attributes: UAA GER Written Communication.  Special Fees:  Advanced instruction in composing and reviewing written texts, with focus on multiple rhetorical situations.

ENGL A312  Advanced Technical Writing  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C.  Registration Restrictions: ENGL A212 recommended.  Course Attributes: UAA GER Written Communication.  Special Fees:  Advanced instruction in composing and reviewing written texts, with focus on multiple rhetorical situations.

ENGL A313  Professional Writing  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C.  Special Fees:  Special Note: May include special fees if delivered in a computerized classroom.  Instruction in writing for a profession, focusing on the various genres and on the technological, cultural, and social aspects of a selected profession.  Concentration on acquiring workplace literacy through analysis and composition of workplace genres, through mastery of relevant technologies (e.g., web-development software, word processing software, spreadsheet software), and through analysis of worksites.

ENGL A315  Medieval Literature  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A201 and ENGL A202.  Special Note:  Offered Fall Semesters.  A selective survey of primarily Western literature from the fifth century through the fifteenth.  Representative authors and genres.

ENGL A320  Renaissance Literature  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A201 and ENGL A202.  Special Note:  Offered Alternate Fall Semesters.  A selective survey of primarily Western literature from the fifteenth century through about the middle of the seventeenth.  Representative authors and genres.

ENGL A325  Neoclassical Literature  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A201 and ENGL A202.  A selective survey of primarily British literature of the period 1660-1798.
ENGL A330  Literature of Romanticism  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
A study of the Romantic movements from late eighteenth century to mid-nineteenth century.

ENGL A340  The Victorian Period  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: Offered Fall Semesters.
Studies in poetry and prose written by various English authors between 1830 and 1900, including such writers as Tennyson, Carlyle, Dickens, Browning, and Arnold.

ENGL A342  The Modernist Period  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
A study of significant works from the early to mid twentieth century, including selections from U.S. and international literature.

ENGL A343  Modern and Contemporary Literature  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 or ENGL A202 or ENGL A211.
Study of representative literary works from the twentieth and twenty-first centuries. Includes selections from U.S. and international literatures.

ENGL A351  Poetry  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
An intensive study of the forms and techniques used by poets.

ENGL A361  The Novel  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 or ENGL A202 or ENGL A211.
Intensive study of the forms and techniques used by novelists within the framework of a historically developing genre.

ENGL A363  Short Story  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
An examination of the development of the short story as a separate genre and an intensive study of the techniques used by writers in this form.

ENGL A371  Narrative Nonfiction  3 CR
Contact Hours: 3 + 0
Prerequisites: [ENGL A121 or ENGL A201 or ENGL A202] and [ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C].
A study of the exemplars of narrative nonfiction such as collected correspondence, essay, memoir, biography, autobiography, journal, new journalism, travel narrative, science and nature writing, jeremiad, weblog. These may be drawn from a variety of historical contexts.

ENGL A381  Drama  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: Offered Alternate Spring Semesters.
An intensive study of the forms and techniques used by dramatists, including significant criticism from Aristotle to the present.

ENGL A383  Film Interpretation  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A211 or ENGL A212 or ENGL A213 or ENGL A214.
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
An intensive study of the forms and techniques used in film. Includes an introduction to film theory and criticism.

ENGL A391  Genres of Subject and Theme  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: Applies once toward the Specialized Study requirement for English majors; can be repeated with a change of subtitle for elective credit. Offered Alternate Spring Semesters.
Study of a genre defined in terms of subject or theme rather than form. Examples include the pastoral, the gothic, utopian literature, detective fiction, and science fiction.

ENGL A403  Topics in Autobiography  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C.
Special Note: Applies once toward the Specialized Study requirement for English literature majors; may be repeated once with a change of subtitle for elective credit.
Study of autobiography and the techniques used and issues raised in this form, with readings focused on a selected theme. Practice in writing autobiography.

ENGL A412  Computer Documentation  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C.
Special Fees.
Advanced study of professional writing practices, focusing on the various methodologies and forms of writing for the computer industry: user profiles and task analyses; engineering requirements; software specifications, computer software manuals and handbooks; tutorials; reference material and quick reference guides; online documentation; and usability tests.

ENGL A424  Shakespeare  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: May be repeated once for credit with faculty permission. Offered Fall and Spring Semesters.
Major works and a survey of Shakespearean criticism. Plays covered vary from semester to semester.

ENGL A429  Major Authors  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: May be repeated once for credit with a change of subtitle. Offered Spring Semesters.
Intensive study of a single author or relationship between authors. Course topics rotate among Chaucer, Milton, and other significant literary figures.

ENGL A434  History of Rhetoric  3 CR
Contact Hours: 3 + 0
Prerequisites: [ENGL A211 or ENGL A212 or ENGL A213 or ENGL A214] and HIST A101 and HIST A102.
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and junior standing.
Course Attributes: UAA GER Integrative Capstone.
Study of significant western rhetorical theories and practices from ancient Greece to contemporary culture. Emphasis on the evolution of rhetorical knowledge and on the historical relationships between rhetoric and culture.

ENGL A440  Topics in Comparative Literature  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 or ENGL A202.
Special Note: May be repeated once for degree credit with a change of subtitle. Comparative analysis of selected texts from modern and contemporary international literatures. Includes readings in poetics and literary history.
ENGL A444  Topics in Native Literatures  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C.
Special Note: Applies once toward requirement for English majors; may be repeated once for elective credit with a change of subtitle. Offered Spring Semesters.
In-depth studies of particular topics in Native literatures. Primary emphasis on American Indian and Alaska Native literatures, but topics may sometimes focus upon other indigenous literatures in the world.

ENGL A445  Alaska Native Literatures  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C.
Course Attributes: UAA GER Humanities Requirement.
Special Note: Offered Fall Semesters.
Study of traditional, historical stories and contemporary texts written by Alaska Natives.

ENGL A450  Linguistics and Language Teaching  4 CR
Contact Hours: 3 + 2
Prerequisites: LING A101.
Special Note: Offered Alternate Spring Semesters.
A survey of linguistics principles and methods for teachers of English, ESL, and other languages. Includes topics such as language structure, language variation, the linguistics of reading, and the linguistics of writing. Emphasis on developing practical teaching techniques. In addition to class time, requires two hours weekly practicum.

ENGL A452  English Grammar and Language Teaching  4 CR
Contact Hours: 3 + 2
Prerequisites: ENGL A211 or ENGL A212 or ENGL A213 or ENGL A214 and LING A201.
Special Note: Offered Alternate Spring Semesters.
An exploration of major features of American English grammar for teachers of English, ESL, and other languages. Includes topics such as theories about the development of grammar competence, the tense-aspect system, the article system, types of modification, and structures that show relationships between ideas. Emphasis on developing practical teaching techniques. In addition to class time, requires weekly two hour practicum.

ENGL A475  Modern Grammar  3 CR
Contact Hours: 3 + 0
Prerequisites: LING A201.
Special Note: Recommended for students in education with a teaching major or minor in English. Offered Spring Semesters.
An inductive modern linguistic analysis of English emphasizing transformational grammar.

ENGL A476  History of English Language  3 CR
Contact Hours: 3 + 0
Prerequisites: [ENGL A121 or ENGL A201 or ENGL A202] and LING A101.
Investigates origins, development, and variation of the English language from linguistic, social, literary, and technological perspectives. Connects history and variation in English to contemporary issues about language.

ENGL A478  Public Science Writing  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C.
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills), junior standing, and 4 credits of Natural Science GER, including one lab credit.
Course Attributes: UAA GER Integrative Capstone.
Special Fees.
Focuses on rhetorical issues at the intersections of discourse, science, and citizenry, issues involving citizens' understanding, awareness, and participation in science-based public policy. Traces historical efforts to define and develop scientific literacy and concentrates on the increasing dialogue and debate among scientists, the public, and policymakers.

ENGL A487  Standard Written English  3 CR
Contact Hours: 3 + 0
Prerequisites: LING A201.
Special Note: Offered Fall Semesters.
Analysis of English emphasizing traditional grammar, standard usage, and rhetoric.

ENGL A490  Selected Topics in English  1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: May be repeated for a maximum of 6 degree credits with a change of subtitle. Offered Fall Semesters.
Current topics in English language and literature, arising from special circumstances of demand or faculty expertise.

ENGL A491  Topics in Composition and Rhetoric  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C.
Special Fees.
Special Note: Applies once toward Rhetorical and Language theory requirement for Rhetoric Option; may be repeated once with a change of subtitle for elective credit. Offered Fall Semesters.
Study of composition and rhetoric as an academic field with a focus on theories, issues, perspectives, and activities around which the field organizes itself. Examples include the study of Composition Theory and Pedagogy, Computers and Teaching Composition, and Origins of Rhetoric.

ENGL A495  Internship in Professional Writing  1-6 CR
Contact Hours: 0 + 3-18
Prerequisites: ENGL A211 with minimum grade of B or ENGL A212 with minimum grade of B or ENGL A213 with minimum grade of B or ENGL A214 with minimum grade of B.
Registration Restrictions: Faculty permission required.
Special Note: May be repeated for up to 6 credits with change in setting and/or responsibilities or change in venue.
Advanced application of writing skills in a professional setting.

ENGL A499  English Honors Thesis  3 CR
Contact Hours: 0 + 9
Registration Restrictions: Completion of six credits of 400-level topics courses w/grade of A (ENGL A403, A404, A429, A440, A444, A490, A491).
Individual in-depth study of a selected topic, resulting in a thesis.

ENGL A602  Contemporary Critical Theory  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Gradate Standing.
Special Note: Offered Spring Semesters.
Spectrum of major types of critical theory currently practiced in American research universities and their specific role in shaping English departments and programs.

ENGL A606  Studies in the Development of the English Language  3 CR
Contact Hours: 3 + 0
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Fall Semesters.
Advanced study of particular topics, trends, and issues in the development of English as a national and global language.

ENGL A607  Studies in American Literature  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Spring Semesters.
Advanced study of particular topics and issues in American literature. Readings will include not only primary texts but also secondary discussions of theories of American literature and literary history.

ENGL A615  Studies in Medieval Literature  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Spring Semesters.
Advanced study of particular topics in Medieval Western literature.

ENGL A620  Studies in Renaissance Literature  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Fall Semesters.
Advanced study of particular topics in the literature of the European Renaissance.

ENGL A625  Studies in Neoclassical Literature  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Fall Semesters.
Advanced study of particular topics in the literature of the late seventeenth and eighteenth centuries.
ENGL A630  Studies in the Literature of Romanticism  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Advanced study of particular topics in the literature of the Romantic period.

ENGL A636  Studies in Modern Criticism  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Fall Semesters. Advanced study of particular topics in twentieth century critical theory and practice.

ENGL A640  Studies in the Victorian Period  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Fall Semesters. Advanced study of particular topics in the literature of England in the period 1830-1900.

ENGL A642  Studies in the Modernist Period  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Fall Semesters. Advanced study of significant works from the late third of the twentieth century to the present, including selections from U.S. and international literature.

ENGL A643  Studies in Contemporary Literature  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Spring Semesters. Advanced study of significant works from the early to mid twentieth century, including selections from U.S. and international literature.

ENGL A651  Studies in Poetry  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Fall Semesters. Advanced study of particular poetic forms, techniques, schools, or traditions.

ENGL A661  Studies in Fiction  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Spring Semesters. Advanced study of particular fictional forms, techniques, schools, or traditions.

ENGL A671  Studies in Nonfiction Prose  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Spring Semesters. Advanced study of particular forms, techniques, schools, or traditions of nonfiction prose.

ENGL A676  Studies in Texts and Cultures  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Spring Semesters. Advanced study of relationships between cultural forces and the production, reception, and interpretation of texts. Focuses on both theory and analysis of selected texts.

ENGL A680  Studies in the History of Rhetoric  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Topics dealing with the historical development of rhetoric. Emphasizes readings of primary texts, understanding the conception of rhetoric particular to the time, and examining how that conception arose.

ENGL A681  Studies in Drama  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Fall Semesters. Advanced study of dramatic forms, techniques, schools, and traditions.

ENGR A199  Engineering Seminar I  1 CR
Contact Hours: 1 + 0
May be stacked with: ENGR A292 and ENGR A392. Exploration of engineering design with presentations given by student interns, faculty, and leaders of industry about the engineering design as well as other aspects of engineering such as marketing, behavioral issues, and socio-economic issues facing today's engineer.

ENGR A615  Engineering Practices I  3 CR
Contact Hours: 3 + 0
Prerequisites: [MATH A107 and MATH A108] or MATH A109. Provides an overview of the engineering profession and the fundamental tools for practicing engineering. Presents the basic skills required of engineers including an introduction to engineering mathematics, spreadsheets, analytical problem solving, word processing, communication, presentations, descriptive geometry, and computer graphics.

ENGR A616  Engineering Practices II  3 CR
Contact Hours: 3 + 0
Prerequisites: [MATH A107 and MATH A108] or MATH A109. Presents the basic skills required of engineers for using computers to solve engineering problems and presenting results in a professional form. Application of computation methods and tools for practicing engineering. Introduction to computer programming and engineering problem solving softwares including visual basic in spreadsheets, Matlab, and Mathcad.

ENGR A182  Introduction to Engineering 1 SP
Contact Hours: 1 + 0
Prerequisites: MATH A107 and MATH A108. Exploring the engineering profession and the fundamental tools for practicing engineering. Presents the basic skills required of engineers including an introduction to engineering mathematics, spreadsheets, analytical problem solving, word processing, communication, presentations, descriptive geometry, and computer graphics.

ENGR A685  Studies in Rhetorical Strategy  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: Offered Alternate Spring Semesters. Advanced study of rhetorical strategies and traditions, focusing on theories of invention, audience, and evaluation.

ENGR A687  Composition Theory and Practice  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Study of methods and teaching composition. Includes introduction to concepts underlying different approaches to composition, applications to practical pedagogy, and contemporary rhetorical issues.

ENGR A688  Topics in Professional Writing  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing. Special Fees. Special Note: May be repeated once for degree credit with a change in subtitle. Advanced study of professional writing practices, focusing on intersections with rhetorical theory.

ENGR A689  Advanced Research and Professional Practices  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A602 and ENGL A687. Registration Restrictions: Formal admission to MA in English; permission of graduate advisor. Advanced practicum in academic research, disciplinary writing, and professional practices. Students evaluate disciplinary journals, research the state of an academic question, trace the history of discussion of a specific argument, compile an annotated bibliography, analyze disciplinary arguments, practice appropriate academic style, and develop a thesis proposal.

ENGR A698  Individual Research  1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Faculty Permission. Special Fees.

ENGR A699  Thesis  1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Faculty Permission. Special Fees. Special Note: Offered Fall and Spring Semesters.
ENGR A251 Engineering Practices III 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGR A151 and ENGR A161 and MATH A200.
Application of analytical and computational methods for solving engineering problems. Experimental problems will be solved and projects presented in technical reports.

ENGR A292 Engineering Seminar II 1 CR
Contact Hours: 1 + 0
Prerequisites: ENGR A192.
Registration Restrictions: Sophomore standing or instructor permission.
May be stacked with: ENGR A192 and ENGR A392.
Exploration of engineering design with presentations given by student interns, faculty, and leaders of industry about the engineering design as well as other aspects of engineering such as marketing, behavioral issues, and socio-economical issues facing today's engineer.

ENGR A392 Engineering Seminar III 1 CR
Contact Hours: 1 + 0
Prerequisites: ENGR A292.
Registration Restrictions: Junior standing or instructor permission.
May be stacked with: ENGR A192 and ENGR A292.
Exploration of engineering design with presentations given by student interns, faculty, and leaders of industry about the engineering design as well as other aspects of engineering such as marketing, behavioral issues, and socio-economical issues facing today's engineer.

ENVI - ENVIRONMENTAL STUDIES
Offered through the College of Arts and Sciences
Beatrice McDonald Hall (BMH), Room 213, 786-6049
www.uaa.alaska.edu/ges

ENVI A211 Earth Systems: The Science and Geography of the Natural Environment 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 and MATH A105.
Crosslisted with: GEOG A211.
Course Attributes: UAA GER Natural Sciences Requirement.
Special Note: A student may apply no more than 3 credits from ENVI A202, GEOG A205, ENVI A211, or GEOG A211 toward the graduation requirements for a baccalaureate degree.
The earth and its geography are discussed as a system of systems with feedbacks and interrelationships. Study of natural systems, cycles, and flows and natural and human induced changes in these systems. Topics include basic ecology, weather and climate, resources and resource stress (air, water, oceans, soils), natural hazards. Uses local, Arctic, and other regional examples.

ENVI A211L Earth Systems: The Science and Geography of the Natural Environment Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: ENGL A111 and MATH A105 and [ENVI A211 or GEOG A211].
Crosslisted with: GEOG A211L.
Course Attributes: UAA GER Natural Sciences Lab Only.
Special Fees.
Special Note: A student may apply no more than 1 credit from GEOG A205L, ENVI A211L, or GEOG A211L toward the graduation requirements for a baccalaureate degree.
Introduction to use of AutoCAD as a tool for engineering graphics. Orthographic projections, auxiliary views, sectional views, dimensioning. Development of detail and working drawings. Three-dimensional modeling. One moderate scale design project required.

ES - ENGINEERING SCIENCE
Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900
www.engr.uaa.alaska.edu

ES A103 Engineering Graphics 3 CR
Contact Hours: 1 + 6
Registration Restrictions: Open only to students who have been accepted into the undergraduate engineering program.
Corequisite: ES A103L.
Introduction to the use of AutoCAD as a tool for engineering graphics. Orthographic projections, auxiliary views, sectional views, dimensioning. Development of detail and working drawings. Three-dimensional modeling. One moderate scale design project required.

ES A111 Engineering Science 3 CR
Contact Hours: 3 + 0
Registration Restrictions: High school algebra and trigonometry or concurrent enrollment in MATH A200 required.
Special Fees.
A survey of engineering science and problem solving techniques, including static and dynamic equilibria, presentation of results, and engineering ethics. Students will be introduced to the use of computers and will participate in a design project.

ES A201 Computer Techniques 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A107 and MATH A108 or (MATH A200 or concurrent enrollment).
Special Fees.
An introduction to programming using BASIC. Computer programming for solving problems in science and engineering, and applications using spreadsheets.

ES A208 Engineering Mechanics 4 CR
Contact Hours: 3 + 3
Prerequisites: [ENGR A151 or ES A111] and MATH A201.
Application of statics and dynamics for solving engineering type problems. Application of vector quantities, equilibrium including friction forces, moments of inertia, and the kinetics and kinematics or particles and rigid bodies.

ES A209 Engineering Statics 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A201 with minimum grade of C and PHYS A211 with minimum grade of C and PHYS A211L with minimum grade of C.
Principles and analysis of static force systems, equilibrium, distributed forces, centroids, centers of gravity, moments of inertia, stresses, friction, and virtual work.

ES A210 Engineering Dynamics 3 CR
Contact Hours: 3 + 0
Prerequisites: ES A209 with minimum grade of C.
Kinematics and kinetics of particles and rigid bodies with applications of Newton’s second law and principles of work-energy, impulse-momentum, and vibration.
ES A302 Engineering Data Analysis 3 CR  
Contact Hours: 3 + 0  
Prerequisites: MATH A201 and ES A201.  
Analytical and spreadsheet methods appropriate to the solution of engineering problems using the concepts from probability and statistics.

ES A309 Elements of Electrical Engineering 3 CR  
Contact Hours: 3 + 0  
Prerequisites: PHYS A212 and (MATH A302 or concurrent enrollment).  
Electrical fundamentals: elementary circuit analysis, network theorems, steady state, and transient analysis of DC circuits with resistors and one energy storage device (L or C). Steady state analysis of AC circuits with resistors, capacitors, and inductors using complex number and phasor representation. Power in DC and AC circuits. Transformers, meters, and applications of simple electrical components and circuits.

ES A331 Mechanics of Materials 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ES A209 with minimum grade of C and (MATH A302 with minimum grade of C or concurrent enrollment).  
Registration Restrictions: BSCE students require a “Civil Engineering Professional” status or approval by the Civil Engineering department chair.  
Stress-strain relations, axially loaded and torsional members, review of shear and bending moment diagrams for beams, flexural and shearing stresses, deflections of beams, plane stress, combined stresses, buckling of columns, elementary design of beams and columns.

ES A341 Fluid Mechanics 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ES A302 with minimum grade of C and MATH A201 with minimum grade of C and PHYS A211 with minimum grade of C and PHYS A211L with minimum grade of C.  
Major Restriction: Must be Civil Engineering major.  
Registration Restrictions: BSCE students require a “Civil Engineering” status or approval by the Civil Engineering Department Chair.  
Special Fees.  
Introduction to physical properties and behavior of fluids. Topics include hydrostatics and dynamics of liquids and gases, dimensional analysis, fluid forces on immersed bodies, pipe flow, fluid machinery, and open channel flow.

ES A341L Fluid Mechanics Laboratory 1 CR  
Contact Hours: 0 + 3  
Prerequisites: (ES A341 with minimum grade of C or concurrent enrollment).  
Registration Restrictions: BSCE students require a “Civil Engineering Professional” status or approval by the Civil Engineering Department Chair.  
Special Fees.  
Provides supplemental explanation and practical exercises applying physical properties and behavior of fluids, including hydrostatics, fluid forces, pipe flow, fluid machinery, and open channel flow.

ES A346 Basic Thermodynamics 3 CR  
Contact Hours: 3 + 0  
Prerequisites: MATH A201 and [PHYS A211 or CHEM A106].  
Registration Restrictions: BSCE students require a “Civil Engineering Professional” status or approval by the Civil Engineering department chair.  
Thermodynamics systems, properties, processes, and cycles. Fundamental principles of thermodynamics (first and second laws), and elementary applications.

ES A411 Northern Design 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Senior standing or graduate standing in an accredited program in architecture or engineering, or instructor permission.  
Introduction to design and maintenance of facilities in northern climates to construct sustainable, energy-efficient and durable buildings and infrastructure suitable for the unique needs of northern inhabitants.

ESL - ENGLISH-AS-A-SECOND LANGUAGE  
Offered through the Community and Technical College  
Beatrice McDonald Hall (BMH), Room 121, 786-6856  
www.uaa.alaska.edu/ctc/cpds

ESL A066 ESL Through Newspapers 1-4 CR  
Contact Hours: 1-4 + 0  
Special Fees.  
Special Note: May be taken for up to 4 credits in one semester and for up to 12 credits altogether.  
For ESL students of varied skill levels. Using newspapers to practice listening, speaking, reading, writing, and other skills. Some individual instruction.

ESL A103 Oral Fluency I 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Appropriate score on TOEFL/TOEFL, or interview with ESL director.  
Special Fees.  
Special Note: Required language lab work.  
For intermediate to advanced students. Instruction in pronunciation, listening comprehension, and speaking strategies for academic and career settings. Emphasis on self-monitoring. Includes special practice in group discussion techniques.

ESL A104 College Reading and Writing I 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Appropriate score on English Placement Test or TOEFL.  
Special Fees.  
Special Note: Required language lab work.  
For intermediate to advanced students. Extensive practice in reading and composition strategies for academic and career settings. Emphasis on alternatives to translation. Includes special practice in grammar.

ESL A105 Vocabulary Enhancement I 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Appropriate score on English Placement Test or TOEFL.  
Special Fees.  
Special Note: Required language lab work.  
For intermediate to advanced students. Extensive practice in different methods of acquiring a larger, more precise vocabulary. Emphasis on using context clues and choosing words to match the occasion/audience. Includes special instruction in idioms used by adults.

ESL A106 College Grammar I 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Appropriate score on English Placement Test.  
May be stacked with: ESL A110.  
Special Fees.  
Provides elements of English grammar for improving comprehension and accuracy. Provides focused instruction in intermediate grammar of Standard American English for academic and professional settings. Includes practice in editing. Designed for ESL students only.

ESL A107 Oral Fluency II 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ESL A103.  
Registration Restrictions: Appropriate score on TOEFL/TOEFL, or interview with ESL director.  
Special Fees.  
Special Note: Required language lab work.  
For advanced students. Further instruction in pronunciation, listening comprehension, and speaking strategies for academic and career settings. Emphasis on self-correction. Includes special practice in formal presentation techniques.

ESL A108 College Reading and Writing II 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ESL A104.  
Registration Restrictions: Appropriate score on English placement test or TOEFL.  
Special Fees.  
Special Note: Required language lab work.  
For advanced students. Further practice in reading and composition strategies for academic and career settings. Emphasis on the use of on-campus resources for self-improvement. Includes additional practice in grammar.

ESL A109 Vocabulary Enhancement II 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ESL A105.  
Registration Restrictions: Appropriate score on English placement test or TOEFL.  
Special Fees.  
Special Note: Requires language lab work.  
For advanced students. Further practice in different methods of acquiring a larger, more precise vocabulary. Emphasis on applying knowledge of word parts from Latin and Greek. Includes special instruction in academic vocabulary.

ESL A110 College Grammar II 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ESL A106 with minimum grade of C.  
Registration Restrictions: Appropriate score on English Placement Test or prerequisite course.  
May be stacked with: ESL A106.  
Special Fees.  
Examines elements of English grammar for improving comprehension and accuracy. Provides focused instruction in high-intermediate and advanced grammar of Standard American English for academic and professional settings. Includes practice in editing. Designed for ESL students only.
<table>
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<td>Selected Topics in English as a Second Language</td>
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<td>ESM A619</td>
<td>Computer Simulation of Systems</td>
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<tr>
<td>ESM A629</td>
<td>ESM Thesis</td>
<td>1-9 CR</td>
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### ESM - ENGINEERING & SCIENCE MANAGEMENT

**Offered through the School of Engineering**  
University Center (UC), Room 155, 786-1924  
http://soe.uaa.alaska.edu/espm

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<td>ESM A450</td>
<td>Economic Analysis and Operations</td>
<td>3 CR</td>
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<tr>
<td>ESM A601</td>
<td>Engineers in Organizations</td>
<td>3 CR</td>
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<tr>
<td>ESM A602</td>
<td>Engineering Economy</td>
<td>3 CR</td>
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<tr>
<td>ESM A603</td>
<td>Engineering Management</td>
<td>3 CR</td>
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<tr>
<td>ESM A604</td>
<td>Legal Environment for Engineering Management</td>
<td>3 CR</td>
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<tr>
<td>ESM A606</td>
<td>Cost Estimating</td>
<td>3 CR</td>
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<td>ESM A607</td>
<td>Computer Simulation of Systems</td>
<td>3 CR</td>
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<tr>
<td>ESM A608</td>
<td>Operations Research</td>
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<td>ESM A618</td>
<td>ESM Thesis</td>
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<tr>
<td>ESM A619</td>
<td>Principles of Logic and Gating</td>
<td>4 CR</td>
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<td>ESM A620</td>
<td>Basic Electronics: AC Physics</td>
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### ET - ELECTRONICS TECHNOLOGY

**Offered through the Community & Technical College**  
University Center (UC), Room 130, 786-6495  
www.uaa.alaska.edu/ctc/computers/tele  
AYATD@UAA.ALASKA.EDU

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<td>Basic Electronics: DC Physics</td>
<td>4 CR</td>
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<tr>
<td>ET A102</td>
<td>Basic Electronics: AC Physics</td>
<td>4 CR</td>
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<tr>
<td>ET A126</td>
<td>Principles of Logic and Gating</td>
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</table>
ET A151 Basic Electricity for the Trades 4 CR
    Contact Hours: 3 + 3
    Prerequisites: MATH A055.

    An introduction to the principles and concepts of electricity as it applies to the non-electronics major. Covers basic electricity and electrical theory, reading of blue prints and electrical plans, analysis of building electrical systems, and installation of electrical devices used in commercial buildings including lights, receptacles, switches, and appliances with voltages up to 480-volt systems.

ET A160 DC Electrical Systems 3 CR
    Contact Hours: 3 + 0
    Corequisite: ET A161.

    Covers basic DC electrical concepts, definitions, laws, and applications. Introduces passive electrical components, schematic symbols, wiring diagrams, power sources, and distribution systems.

ET A161 DC Lab 1 CR
    Contact Hours: 0 + 3
    Corequisite: ET A160.

    Special Fees.

    Presents methods of safe and accurate measurement of DC electrical quantities using basic electrical test equipment. Covers equipment connection, testing methods and operation to observe electrical component characteristics to troubleshoot defective circuits. Power sources, distribution systems, schematic and wiring diagrams will also be covered.

ET A162 AC Electrical Systems 3 CR
    Contact Hours: 3 + 0
    Prerequisites: ET A160 and ET A161.
    Corequisite: ET A163.
    Special Fees.

    Examines theory and application of basic concepts and definitions and laws governing alternating current signal and power sources. Includes AC waveforms, sources, components, wiring diagrams, schematic symbols, and analysis of AC power distribution.

ET A163 AC Lab 1 CR
    Contact Hours: 0 + 3
    Prerequisites: ET A160 and ET A161.
    Corequisite: ET A162.

    Special Fees.

    Presents measurement of AC electrical quantities using basic electrical test equipment. Covers AC circuit troubleshooting through proper equipment connections, testing, and operations. Power sources, distribution systems, schematic, and wiring diagrams will also be covered.

ET A165 Introduction to Digital Devices 1 CR
    Contact Hours: 1 + .5
    Special Fees.

    Introduces the principles and practical applications of digital electronics used by computers, communications equipment, and control systems. Topics will include digital logic gates, binary numbers, flip-flops, registers, counters, and shift registers.

ET A166 Technical Calculations and Applications 2 CR
    Contact Hours: 2 + 0

    Presents applied calculations for students in technical fields. Covers basic arithmetic, conversions, solving equations, logarithms, multimonial equations, graphs and applied basic concepts of geometry, trigonometry, and statistics.

ET A175 Technical Introduction to Microcomputers 3 CR
    Contact Hours: 3 + 0
    Offered only at Kenai Peninsula College.

    Coverage includes terminology, number systems, basic microcomputer architecture, assembly language programming, and MS/DOS operating system.

ET A180 Semiconductors Devices 4 CR
    Contact Hours: 3 + 2
    Prerequisites: ET A162 and ET A163.
    Special Fees.

    Introduces semiconductor fundamentals and parameters. Covers semiconductor physics, diode and transistor characteristics and applications. Provides methods for analyzing and troubleshooting complex semiconductor circuitry. Component coverage includes specialty diodes, multi-layer control devices, bipolar transistors, JFETs, MOSFETs, and multistage coupling devices.

ET A181 Digital Electronics 4 CR
    Contact Hours: 3 + 2
    Special Fees.

    Presents digital electronics concepts, logic families and applications. Provides methods for analyzing and troubleshooting complex digital circuitry. Topics include binary numbers, digital logic gates, flip-flops, registers, counters, shift registers, logic interfacing, logic families, timers, analog and digital converters, and memory devices.

ET A182 Applied Integrated Circuits 2 CR
    Contact Hours: 1.5 + 2
    Prerequisites: ET A180.
    Special Fees.

    Presents the electrical characteristics and applications of the ideal operational amplifier. Topics include input and output characteristics, comparators, amplifiers, signal/function generation, active filtering and power supply regulation.

ET A183 Data Communications 1 CR
    Contact Hours: 1 + 5
    Prerequisites: CNT A164 and ET A165.

    Presents basic data communication concepts, including history, data conversion, A/D and D/A protocol, interfacing, direction control, and multiplexing.

ET A184 Telecommunications 2 CR
    Contact Hours: 1.5 + 1
    Prerequisites: ET A162 and ET A163.

    Examines the principles and concepts of communication between the computer operating system environment and the real-time, outside world. Specifically includes serial communication, analog/digital and digital/analog conversions, protocols, interfacing, direction control, telecommunication equipment, switching systems, subscriber services, and distribution techniques.

ET A185 Transmitters and Receivers 3 CR
    Contact Hours: 2 + 3
    Prerequisites: ET A184.

    Explores the methods and techniques used in transmission and reception of AM, FM, and SS signals. Emphasizes antennas, transmission lines, signal propagation, transmitter and receiver circuits, alignment, and troubleshooting.

ET A240 Application of Integrated Circuits 3 CR
    Contact Hours: 3 + 0
    Prerequisites: ET A126.
    Offered only at Kenai Peninsula College.

    Coverage includes characteristics and interfacing information on DTL, TTL, and CMOS devices with emphasis on MSI and LSI chips. Microprocessor interfacing conversion will be covered.

ET A241 Microcomputer Interfacing 3 CR
    Contact Hours: 3 + 0
    Prerequisites: ET A175 and ET A240.
    Offered only at Kenai Peninsula College.

    Deals with the problems of communication between the computer operating system environment and the real-time, outside world. Specifically includes serial communication, analog/digital and digital/analog conversions, discrete input/output multiplexing, and bus architecture.

ET A243 Programmable Logic Controllers 3 CR
    Contact Hours: 3 + 0
    Prerequisites: ET A126.
    Offered only at Kenai Peninsula College.

    Introduces the use of programmable logic controllers to monitor and control discrete devices in the primary focus.

ET A246 Electronic Industrial Instrumentation 3 CR
    Contact Hours: 3 + 0
    Prerequisites: ET A245 and (MATH A101 or concurrent enrollment) and (MATH A105 or concurrent enrollment).
    Offered only at Kenai Peninsula College.

    Covers the methods of analog electronic signal transmission. In addition, discusses the details of several actual pieces of equipment in-depth providing practice in establishing correct interconnectors. Basic concepts used in troubleshooting this type of equipment are also introduced.

ET A260 Instrumentation and Control Processes 3 CR
    Contact Hours: 2 + 3
    Prerequisites: ET A180 and ET A181 and ET A182.
    Special Fees.

    Covers theory of measurement, control, and data acquisition. Includes instrumentation circuitry, mechanical control elements, computer control processes, sensors, transducers, IP interfacing, and applications.
ET A261  Electronic Systems Troubleshooting  2 CR
Contact Hours:  1.5 + 2
Prerequisites: ET A180 and ET A182.
Emphasizes troubleshooting and repair techniques for electronic circuits and systems. Includes schematic use, soldering, test equipment use, and safe practices for simple and complex circuits.

ET A262  Transmitters, Receivers, and Advanced Communications  3 CR
Contact Hours:  2 + 3
Prerequisites: ET A184.
Explores the methods and techniques used in transmission and reception of AM, FM and single-sideband signals. Emphasizes antennas, transmission lines, signal propagation, transmitter and receiver circuitry, alignment and troubleshooting. Also examines communications technology including microwave, radar, satellite, mobile and cellular telephone, video, and other wireless systems.

ET A276  Independent Project  3 CR
Contact Hours:  0 + 11
Registration Restrictions: Faculty Permission; and working knowledge of TES topics.
Develops, implements, and completes a project based on a relevant technological issue. Student works closely with faculty to produce an end project and report.

ET A282  Work Study  3 CR
Contact Hours:  0 + 11
Registration Restrictions: Faculty Permission; and successful completion of 12 credits in TES program.
Grade Mode: Pass/No Pass.
Provides supervised workplace experience in industry settings. Integrates advanced level knowledge and practices to demonstrate skill competencies.

ET A291  Selected Topics in Electronics Technology  1-4 CR
Contact Hours:  1-4 + 0-12
Special Note: Prerequisites may be imposed depending on topic. May be repeated under a different topic.
Offers selected topics in electronics pertaining to state-of-the-art technology and trends. Course content is determined by current trends, new technologies, and student and employer needs.

ET A350  Federal Licensing Preparation  4 CR
Contact Hours:  4 + 0
Prerequisites: AT A274 or ET A225 or ET A245 or ET A250.
Analysis of avionics systems, marine communications, global marine distress safety systems, federal rules and regulations for operators and technicians. Synthesizes knowledge and skills in preparation for taking the federal communications commission (FCC) licensing exam.

FD - FLORAL DESIGN
Offered through the Community & Technical College
Lucy Cuddy Hall (CUDY), Room 126, 786-4728
www.uaa.alaska.edu/ctc/eagleriver

FD A161  Floral Design I  3 CR
Contact Hours:  2 + 2
Special Fees.
Special Note: Appropriate for persons with personal and professional interests.
Covers basic principles, techniques, and mechanics of floral design, flower identification and selection, and the use and care of equipment and supplies.

FD A162  Floral Design II  3 CR
Contact Hours:  2 + 2
Prerequisites: FD A161.
Special Fees.
Covers basic principles, techniques, and mechanics of floral design and specialty corsages using fresh plant materials. Includes pricing and cost control.

FIRE - FIRE SCIENCE
Offered through the Community & Technical College
Allied Health Sciences Building (ASH), Room 161, 786-6928
www.uaa.alaska.edu/ctc/alliedhealth/fire
Classes are held at the Fire Department Training Center, 1140 Airport Heights Road.

FIRE A101  Principles of Emergency Services  3 CR
Contact Hours:  3 + 0
Special Fees.
Introduces fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection/service; fire loss analysis; organization and function of public and private protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; and fire strategy and tactics.

FIRE A105  Fire Prevention  3 CR
Contact Hours:  3 + 0
Special Fees.
Introduces the fundamentals of the history and philosophy of fire prevention, organization, and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education.

FIRE A107  Strategy and Tactics  3 CR
Contact Hours:  3 + 0
Prerequisites: FIRE A101.
Special Fees.
Provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground.

FIRE A111  Fire Administration I  3 CR
Contact Hours:  3 + 0
Prerequisites: FIRE A101.
Special Fees.
Introduces the organization and management of a fire department and the relationship of government agencies to the fire service. Emphasizes fire service leadership from the perspective of the company officer’s role in management, leadership, personnel, planning, and communication.

FIRE A117  Rescue Practices  3 CR
Contact Hours:  3 + 0
Prerequisites: EMT A110 or EMT A130.
Registration Restrictions: Departmental approval
Special Fees.
Special Note: Students must be physically capable of performing rescue skills and must be currently certified as an Emergency Trauma Technician or an Emergency Medical Technician.
Introduces rescue problems, techniques, and equipment. Includes SCBA use, urban search and rescue, scene safety, motor vehicle crashes, technical rescue, water, swift water, and ice rescue, mass casualty incidents, and heavy rescue.

FCS - FAMILY & CONSUMER SCIENCES
Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 172, 786-6494
http://ctc.uaa.alaska.edu

FCS A120  Learn to Sew  1 CR
Contact Hours:  0 + 2
Basic principles of sewing and simple clothing construction. Includes use of sewing machine, selection of fabrics and patterns, and simple construction techniques. Students must provide own sewing equipment (except sewing machine) and all patterns and fabrics for class projects.

FCS A124  Sewing Topics  1-3 CR
Contact Hours:  1-3 + 2-6
Special Note: May be repeated any number of times, but a maximum of 6 credits applicable toward degree requirements.
Flexible workshops offering variety of specialized clothing and textile skill techniques.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRE A121</td>
<td>Fire Behavior and Combustion</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: MATH A105 with minimum grade of C.</td>
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</tr>
<tr>
<td>Special Fees.</td>
<td>Presents the theories and fundamentals of how and why fires start, why they spread, and how they are controlled.</td>
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<tr>
<td>FIRE A123</td>
<td>Fire Investigation I</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: FIRE A101 and FIRE A121.</td>
<td></td>
</tr>
<tr>
<td>Special Fees.</td>
<td>Introduces the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing origin and cause, preservation of evidence and documentation, scene security, motives of the fire-setter, and types of fire causes.</td>
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</tr>
<tr>
<td>FIRE A131</td>
<td>Firefighter I, Series I</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Special Fees.</td>
<td></td>
</tr>
<tr>
<td>FIRE A133</td>
<td>Firefighter I, Series II</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 2 + 2</td>
<td>Prerequisites: FIRE A131.</td>
<td></td>
</tr>
<tr>
<td>Special Fees.</td>
<td>Special Note: Successful completion of all four Firefighter I series will qualify/prepare the student to sit for Alaska State Fire Fighter I certification exam. All students are required to wear a complete set of fire department approved protective clothing (turnout gear) during skills training. (Turnout gear provided)</td>
<td></td>
</tr>
<tr>
<td>FIRE A135</td>
<td>Firefighter I, Series III</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 2 + 2</td>
<td>Prerequisites: FIRE A133.</td>
<td></td>
</tr>
<tr>
<td>Special Fees.</td>
<td>Special Note: Successful completion of all four Firefighter I series will qualify/prepare the student to sit for Alaska State Fire Fighter I certification exam. All students are required to wear a complete set of fire department approved protective clothing (turnout gear) during skills training. (Turnout gear provided)</td>
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<tr>
<td>FIRE A137</td>
<td>Firefighter I, Series IV</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 1</td>
<td>Prerequisites: FIRE A135.</td>
<td></td>
</tr>
<tr>
<td>Special Fees.</td>
<td>Special Note: Successful completion of all four Firefighter I series will qualify/prepare the student to sit for Alaska State Fire Fighter I certification exam. All students are required to wear a complete set of fire department approved protective clothing (turnout gear) during skills training. (Turnout gear provided)</td>
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</tr>
<tr>
<td>FIRE A151</td>
<td>Wildland Fire Control I</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Special Fees.</td>
<td></td>
</tr>
<tr>
<td>FIRE A155</td>
<td>Wildland Fire Behavior</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: MATH A105.</td>
<td></td>
</tr>
<tr>
<td>Special Fees.</td>
<td>Provides the knowledge and skills for fire behavior prediction. Introduces the manual method of fire behavior calculations. Provides an understanding of the determinants of fire behavior through studying input and how to interpret fire behavior output.</td>
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</tr>
<tr>
<td>FIRE A157</td>
<td>Wildland Air Operations and Safety</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: FIRE A151.</td>
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</tr>
<tr>
<td>Special Fees.</td>
<td>Introduces aircraft types and capabilities, aviation management and safety for flying in and working with agency aircraft, tactical and logistical uses of aircraft, and requirements for helicopter take-off and landing areas. The regulations and policies addressed in this course are primarily those governing federal agency and ICS operations.</td>
<td></td>
</tr>
<tr>
<td>FIRE A170</td>
<td>Occupational Safety and Health for Fire Service</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Special Fees.</td>
<td></td>
</tr>
<tr>
<td>FIRE A201</td>
<td>Principles of Emergency Management</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: FIRE A101.</td>
<td></td>
</tr>
<tr>
<td>Special Fees.</td>
<td>Examines the history of emergency management. Identifies and determines risk assessments for natural and technological hazards. Identifies and assesses the disciplines of emergency management. Examines international disaster management, emergency management and terrorism, and discusses the future of emergency management.</td>
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</tr>
<tr>
<td>FIRE A202</td>
<td>Fire Protection Hydraulics and Water Supply</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: FIRE A101 and FIRE A121 and (MATH A105 or concurrent enrollment).</td>
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</tr>
<tr>
<td>Special Fees.</td>
<td>Introduces the principles of the use of water in fire protection and the application of hydraulic principles to analyze and solve water supply problems.</td>
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</tr>
<tr>
<td>FIRE A203</td>
<td>Hazardous Materials Chemistry I</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: FIRE A101 and FIRE A121 and (MATH A105 or concurrent enrollment).</td>
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</tr>
<tr>
<td>Special Fees.</td>
<td>Applies basic fire chemistry relating to the categories of hazardous materials, including problems of recognition, reactivity, and health encountered by firefighters.</td>
<td></td>
</tr>
<tr>
<td>FIRE A206</td>
<td>Building Construction for Fire Protection</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: FIRE A101 and FIRE A121.</td>
<td></td>
</tr>
<tr>
<td>Special Fees.</td>
<td>Covers the principles of building construction that relate to fire and safety with an emphasis on firefighter safety. Demonstrates how the elements of construction and design are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies.</td>
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</tr>
<tr>
<td>FIRE A214</td>
<td>Fire Protection Systems</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: FIRE A101 and FIRE A105 and FIRE A121 and MATH A105.</td>
<td></td>
</tr>
<tr>
<td>Special Fees.</td>
<td>Presents information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection and portable fire extinguishers.</td>
<td></td>
</tr>
</tbody>
</table>
### FREN - FRENCH

**FIRE A216**  
**Methods of Instruction for Fire and Emergency Services**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Three years experience with a recognized/organized fire department or an emergency response organization involved in firefighting. Special Fees.  
Satisfies the State requirements for both basic and advanced methods of instruction (MOI) specifically for firefighter training. Topics include instructional planning, methods and techniques of instruction, concepts of learning, communication, evaluation and testing, use of audiovisual aids and materials, roles and responsibilities of instructors, developing and modifying lesson plans, budgeting, scheduling, teaching in a high hazard environment, and managing other instructors.

**FIRE A220**  
**Legal Aspects of Emergency Services**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: ENGL A111. Special Fees.  
Introduces the Federal, State, and local laws that regulate emergency services. Identifies national standards influencing emergency services, tort liability, and standard of care. Review of relevant court cases directly related to fire and emergency medical services.

**FIRE A223**  
**Fire Investigation II**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: FIRE A123. Special Fees.  
Provides advanced technical knowledge of rule of law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation, and testifying.

**FIRE A230**  
**Fire Department Organizational Theory and Behavior**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: FIRE A101. Special Fees.  
Exposes the student to fire department organizational theory and behavior. Examines various theories developed to explain and predict employee behavior in an organizational context. Develops analytical thinking capabilities by comparing and contrasting conflicting theories of organizations.

**FREN A101**  
**Elementary French I**  
4 CR  
Contact Hours: 4 + 0  
Course Attributes: UAA GER Humanities Requirement. Special Fees.  
Introductory course for students with no previous knowledge of the French language. Develops listening, speaking, reading, and writing skills in French for effective communication at the elementary level. Students gain understanding of basic cross-cultural perspectives. Course conducted in French.

**FREN A102**  
**Elementary French II**  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: FREN A101. Course Attributes: UAA GER Humanities Requirement. Special Fees.  
Continuation of introductory course. Further develops elementary listening, speaking, reading, and writing skills in French for effective communication. Enhances appreciation of cross-cultural perspectives. Course conducted in French.

**FREN A201**  
**Intermediate French I**  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: FREN A102. Course Attributes: UAA GER Humanities Requirement. Special Fees.  
Intermediate course for students with basic knowledge of French. Enhances listening, speaking, reading, and writing skills for effective communication at the intermediate level. Students critically examine diverse cultural perspectives. Course conducted in French.

**FREN A202**  
**Intermediate French II**  
4 CR  
Contact Hours: 3 + 2  
Prerequisites: FREN A201. Course Attributes: UAA GER Humanities Requirement. Special Fees.  
Continuation of first semester in intermediate French. Further develops listening, speaking, reading, and writing proficiency for effective communication and in preparation for advanced study of French. Students interpret diverse cultural perspectives. Course conducted in French.

**FREN A301**  
**Advanced French I**  
4 CR  
Contact Hours: 3 + 2  
Prerequisites: FREN A202 with minimum grade of C. Special Fees.  
Further development of speaking, listening, reading and writing proficiency with marked emphasis on listening, reading, and speaking. More sophisticated grammatical structures. Wide range of discussion topics. Conducted in French.

**FREN A302**  
**Advanced French II**  
4 CR  
Contact Hours: 3 + 2  
Prerequisites: FREN A301 with minimum grade of C. Special Fees.  
Continuation of FREN 301. Further development of speaking, listening, reading and writing proficiency with marked emphasis on listening, reading, and speaking. More sophisticated grammatical structures. Wide range of discussion topics. Conducted in French.

**FREN A306**  
**Advanced French Conversation and Composition**  
1-3 CR  
Contact Hours: 1-3 + 0  
Prerequisites: FREN A202. Special Fees.  
Special Note: May be offered in 1-, 2-, or 3-credit segments. Repeatable for credit with change of subtitle. Up to 3 credits may count toward a minor or major in languages with an emphasis in French.  
Speaking and writing about French and Francophone countries, their peoples, customs and cultures.

**FREN A310**  
**Selected Topics in Advanced French**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: FREN A202. Special Fees.  
Special Note: May be repeated for credit with a different subtitle. An advanced course for students interested in conversation, writing skills, cultural information about the French-speaking world. There will be a different topic each time the course is offered. Conducted in French.

**FREN A432**  
**Studies of Literature and Culture**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Reading ability in French equivalent to three years of college study. Special Fees.  
Intensive study of authors, literary movements, periods, and/or genres. Students will also analyze cultural material other than texts. The course is conducted in French and may be repeated for credit when topics vary.

### GEO - GEOMATICS

**GEO A137**  
**Principles of Mapping**  
3 CR  
Contact Hours: 2 + 2  
Registration Restrictions: Computer competency (see admission requirements) or instructor approval. Special Note: Offered Fall Semesters.  
Introduction to cartographic methods, design, and map reading. Basic map components, including projections, text, line work, and data symbolization. Projects will be completed using traditional and computer cartographic techniques. Mapping basics integral to all Geomatics courses and essential in the preparation of students from all disciplines for further mapping and GIS courses.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Registration Restrictions</th>
<th>Special Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO A146</td>
<td>Surveying Computations</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A108 with minimum grade of C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEO A155</td>
<td>Fundamentals of Surveying</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>MATH A108 with minimum grade of C</td>
<td></td>
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</tr>
<tr>
<td>GEO A157</td>
<td>Analytical and Digital Cartography</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>GEO A137</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEO A158</td>
<td>Geomatics Computer Fundamentals</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>GEO A155 with minimum grade of C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEO A166</td>
<td>Advanced Surveying</td>
<td>4 CR</td>
<td>2 + 6</td>
<td>GEO A155 with minimum grade of C</td>
<td>Registration Restrictions: See admission requirements.</td>
<td></td>
</tr>
<tr>
<td>GEO A167</td>
<td>Remote Sensing and Image Analysis</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Registration Restrictions: Computer competency (see admission requirements) or instructor approval.</td>
<td>Special Fees</td>
<td></td>
</tr>
<tr>
<td>GEO A248</td>
<td>Digital Terrain Cartography</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>GEO A157</td>
<td>Special Note: Offered Spring Semesters.</td>
<td></td>
</tr>
<tr>
<td>GEO A256</td>
<td>Municipal and Civil Geomatics</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>MATH A20 and GEO A166</td>
<td>MATH A200</td>
<td></td>
</tr>
<tr>
<td>GEO A257</td>
<td>Elements of Photogrammetry</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>MATH A108 with minimum grade of C and GEO A157 with minimum grade of C</td>
<td>Special Note: Offered Fall Semesters.</td>
<td></td>
</tr>
<tr>
<td>GEO A267</td>
<td>Boundary Law I</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>GEO A155</td>
<td>Special Note: Offered Fall Semesters.</td>
<td></td>
</tr>
<tr>
<td>GEO A355</td>
<td>Land Development and Design</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>GEO A248 with minimum grade of C and GEO A267 with minimum grade of C</td>
<td>Special Note: Offered Fall Semesters.</td>
<td></td>
</tr>
<tr>
<td>GEO A358</td>
<td>Programming for Digital Cartography</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>ES A201 with minimum grade of C and GEO A157 with minimum grade of C</td>
<td>Special Note: Offered Fall Semesters.</td>
<td></td>
</tr>
<tr>
<td>GEO A359</td>
<td>Geodesy and Map Projections</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A200.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEO A365</td>
<td>Geomatic Adjustment and Analysis</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>MATH A202 and GEO A359.</td>
<td>Special Note: Offered Spring Semesters.</td>
<td></td>
</tr>
<tr>
<td>GEO A433</td>
<td>Hydrographic Surveying</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Upper class undergraduate or graduate standing in either Geomatics or Civil Engineering, or instructor’s permission.</td>
<td>Special Note: Offered Fall Semesters.</td>
<td></td>
</tr>
<tr>
<td>GEO A456</td>
<td>Geomatics and Civil Design</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>MATH A200 with minimum grade of C and GEO A166 with minimum grade of C</td>
<td>Special Note: Offered Fall Semesters.</td>
<td></td>
</tr>
</tbody>
</table>

Contact Hours: 2 + 2
Prerequisites: MATH A108 with minimum grade of C and GEO A157 with minimum grade of C.
Special Note: Offered Fall Semesters.

Methods of gathering survey data for civil surveys. Evaluation of survey data gathering methods. Geomatics applications for urban surveys. Construction staking for route surveys, small construction project. Platting and mapping techniques.
GEOG A487 Boundary Law II 4 CR  
Contact Hours: 4 + 0  
Prerequisites: GEO A267 and ENGL A212.  
Special Note: Offered Spring Semesters.  

Procedures and sources for legal research, Alaska Easement Law, Alaska State Statutes and Administrative Code applicable to land surveying, current BLM procedures and regulations, surveying platting procedures, Defective Survey Act, lotted sections, floodplains and wetlands, water boundary case law, ALTA/ASCM survey procedures, writing and interpreting legal descriptions.  

GEOG A459 Geodetic Geomatics 3 CR  
Contact Hours: 3 + 0  
Prerequisites: MATH A202 and GEO A359.  
Special Note: Offered Alternate Spring Semesters.  
Advanced topics in geometric geodesy and map projections. Introduction to physical geodesy. Programming of map projections transformations. Geodesy astronomy.  

GEOG A460 Geomatics Design Project 3 CR  
Contact Hours: 2 + 2  
Prerequisites: GEO A355 with minimum grade of C and GEO A359 with minimum grade of C and GEO A365 with minimum grade of C.  
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses.  
Course Attributes: UAA GER Integrative Capstone.  
Projects in geomatics. Research, design, data compilation, analyses, and mapping for a Geomatics project. Professional standards and ethical concerns for geomaticians.  

GEOG A466 Geopositioning 4 CR  
Contact Hours: 3 + 3  
Prerequisites: MATH A200 and GEO A359.  
Registration Restrictions: Computer competency (see admissions requirements).  
Special Note: Offered Spring Semesters.  
Introduction to positional systems, geodesy concepts, GPS site reconnaissance, network planning, data collection using static to real-time kinematic positioning methods, data processing, network adjustment, analysis of advantages and limitations of geopositioning technologies.  

GEOG A467 Analytical and Digital Photogrammetry 3 CR  
Contact Hours: 2 + 2  
Prerequisites: GEO A257.  
Special Fees.  
Special Note: Offered Alternate Spring Semesters.  

GEOG A490 Selected Advanced Topics in Geomatics 1-6 CR  
Contact Hours: 1-6 + 2-12  
Registration Restrictions: Faculty permission.  
Advanced theoretical or practical concepts in geomatics. Specific course content is determined by student needs, developments in technology, or licensing requirements.  

GEOG A211 Earth Systems: The Science and Geography of the Natural Environment 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ENGL A111 and MATH A105.  
Crosslisted with: ENVI A211.  
Course Attributes: UAA GER Natural Sciences Requirement.  
Special Note: A student may apply no more than 3 credits from ENVI A202, GEOG A205, ENVI A211, or GEOG A211 toward the graduation requirements for a baccalaureate degree.  
The earth and its geography are discussed as a system of systems with feedbacks and interrelationships. Study of natural systems, cycles, and flows and natural and human induced changes in these systems. Topics include basic ecology, weather and climate, resources and resource stress (air, water, oceans, soils), natural hazards. Uses local, Arctic, and other regional examples.  

GEOG A211L Earth Systems: The Science and Geography of the Natural Environment Laboratory 1 CR  
Contact Hours: 0 + 3  
Prerequisites: ENGL A111 and MATH A105 and [ENVI A211 or GEOG A211].  
Crosslisted with: ENVI A211L.  
Course Attributes: UAA GER Natural Sciences Lab Only.  
Special Fees.  
Special Note: A student may apply no more than 1 credit from GEOG A205L, ENVI A211L, or GEOG A211L toward the graduation requirements for a baccalaureate degree.  
Laboratory introducing students to the systematic acquisition of data and its analysis and interpretation in a manner consistent with the disciplines of environmental studies and geography. Includes field and classroom experiences and the use of remotely sensed data and geographic information systems in interpretation, analysis, and presentation. Themes include scientific method, map use, environmental problems at multiple scales, weather and climate, resources and resource stress (air, water, oceans, soils), and natural hazards.  

GEOG A323 Economic Geography and the Global Economy 3 CR  
Contact Hours: 3 + 0  
Prerequisites: GEOG A101 or INTL A101.  
Registration Restrictions: ECON A201 recommended.  
Exploitation of key issues, concepts, and arguments in economic geography. Comparative investigation of the evolving economic geography of several international regions within the framework of contemporary processes of economic globalization. Covers policy, planning, global economic interdependence and transition, and contemporary issues.  

GEOG A327 Political Geography 3 CR  
Contact Hours: 3 + 0  
Prerequisites: [GEOG A101 or INTL A101 or PS A102].  
Crosslisted with: PS A327.  
Study of the spatial forms and processes of political phenomena. Concepts, models, and current literature related to territories such as nation-states and congressional districts, the formation and dissolution of empires, geopolitics, and international conflict are examined.  

GEOG A344 The Slavic World 3 CR  
Contact Hours: 3 + 0  
Prerequisites: GEOG A101 or INTL A101.  
Origin, diffusion, and developmental histories of the Slavic peoples. Focus on the geography of Central East Europe, the realm inhabited by the Eastern (Russians, Belarusians, and Ukrainians), Western (Poles, Czechs, and Slovaks), and Southern Slavs (Bulgarians and peoples of the former Yugoslavia). Integration of region into the European Union and continued economic and political transition. Involvement of non-Slavic groups in the region also given consideration.  

GEOG A345 Across This Land: The Historical Geography of North America 3 CR  
Contact Hours: 3 + 0  
Prerequisites: HIST A131.  
Crosslisted with: HIST A345.  
Special Note: GEOG A205 recommended.  
Explores the European settlement of North America (U.S. and Canada), the impact of geography on this settlement, and the impress of culture and political process on the land. A significant part of the course compares and contrasts the American and Canadian geographic experience and the creation of distinct regional cultures.  

GEOG A390 Selected Topics: Field Studies in Geography 1-3 CR  
Contact Hours: 0-2 + 3-9  
Registration Restrictions: Faculty permission and a designated GEOG course.  
Geographic concepts and processes explored in the field. Introduction to geographic fieldwork techniques and methodology. Students conduct fieldwork in selected areas of geographic inquiry. Topics range from regional studies (e.g. the geography of South Central Alaska) to topical studies (e.g. historical geography). May be repeated twice with change of subtitle.
COURSE DESCRIPTIONS

GEOL A115  Anglo-Saxons and Vikings: History & Geography in Early Medieval North Atlantic 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A101.
Crosslisted with: HIST A115.
Special Note: GEOL A205 recommended.
A study of Anglo-Saxon and Viking society, territorial expansion, and settlement from the 7th-11th centuries. Focus on historical impacts on the human landscape, political arrangement, and the effects of climate and environmental modification on population growth and migration.

GEOL A115L Northwest Passage: The Changing Canadian North 3 CR
Contact Hours: 3 + 0
Prerequisites: GEOL A101 or INTL A101 or INTL A315.
Geography of and current issues in the Canadian North. Historical and political development of the Canadian North as a region. Current issues to include the sovereignty of the Northwest Passage, environmental impacts of mineral and other economic development, challenges to subsistence activities, cultural change and social challenges, and climate change and its overarching impact on the region.

GEOL A144 The Silk Road: Ideological, Cultural, and Economic Travels through Central Eurasia 3 CR
Contact Hours: 3 + 0
Prerequisites: GEOL A101 or INTL A101.
Study of Central Asian cultures and histories in the context of the Silk Road. The extended region as a melange of cultural identities and histories, political economies, and ideological struggles. The interaction of the newly formed republics with China, Turkey, and Iran is also a significant concern of the course.

GEOL - GEOLOGY

Offered through the College of Arts and Sciences
Beatrice McDonald Hall (BMH), Room 214, 786-6840
http://geology.uaa.alaska.edu

GEOL A104 Natural History of Alaska 3 CR
Contact Hours: 3 + 0
Crosslisted with: BIOL A104.
Special Note: Acceptable as elective credit only.
Surveys important biological, physical and geological features of Alaska, and their development over time. Includes study of major landforms, ecosystems, wildlife and people. Local area will be emphasized.

GEOL A111 Physical Geology 4 CR
Contact Hours: 3 + 3
Registration Restrictions: MATH A055 or higher
Course Attributes: UAA GER Natural Science w/ Lab.
Special Fees.
Introduction to physical geology. Study of earth, its materials, and processes affecting changes on and within. Laboratory training in use of topographic maps, and recognition of common rocks and minerals.

GEOL A115 Environmental Geology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: MATH A055 or higher
Course Attributes: UAA GER Natural Sciences Requirement.
An introduction to the study of applied environmental geology with a focus on geologic processes and linkages to how humans interact with the geologic environment. Both internal and external Earth processes and related topics such as earthquakes and volcanic eruptions as well as coastal processes and mineral and energy resources will be included.

GEOL A115L Environmental Geology Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: (GEOL A115 or concurrent enrollment).
Registration Restrictions: MATH A055 or higher
Course Attributes: UAA GER Natural Sciences Lab Only.
Special Fees.
Investigation of problems in environmental geology related to volcanic and earthquake hazards, surface and groundwater pollution, landslides, coastal processes, and waste disposal with emphasis on the local areas in Alaska. Several local field trips are included.

GEOL A178 Fundamentals of Oceanography 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Placement into MATH A105 or higher.
Crosslisted with: BIOL A178.
Course Attributes: UAA GER Natural Sciences Requirement.
Principles of oceanography, with emphasis on the ocean’s biological, physical, chemical, and geological processes, and how ocean processes affect the atmosphere.

GEOL A179 Fundamentals of Oceanography Laboratory 1 CR
Contact Hours: 0 + 3
Registration Restrictions: Placement into MATH A105 or higher.
Crosslisted with: BIOL A179.
Course Attributes: UAA GER Natural Sciences Lab Only.
Special Fees.
Laboratory exercises designed to illustrate principles and concepts developed in BIOL A178/GEOL A178.

GEOL A190 Introductory Topics in Geology 1-3 CR
Contact Hours: 1-3 + 0
Special Note: May be repeated with change of topic.
Introductory study of a selected topic in geology.

GEOL A221 Historical Geology 4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL A111.
Course Attributes: UAA GER Natural Science w/ Lab.
Special Fees.
Special Note: Meets the GER natural science lab requirement.
History of earth through geologic time, emphasizing North America. Major events in plate tectonics, evolution of life forms, and interpretation of the rock record. Lab includes invertebrate fossil identification, geologic map interpretation, stratigraphic principles, and field trip.

GEOL A302 Volcanology 3 CR
Contact Hours: 3 + 0
Prerequisites: GEOL A221.
Special Fees.
The description and classification of volcanoes, volcanic eruptions, and volcanic deposits. Includes the history of volcanic studies, myths, and legends. Emphasis on the dynamics of volcanic eruptions, pyroclastic rocks, lava flows, and volcanic hazard assessment.

GEOL A321 Mineralogy 4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL A221 and MATH A105 and CHEM A105.
Special Fees.
Crystallography including external form and internal order. Crystal chemistry, atomic structure, crystal structure, and compositional variation, nature and origin of physical properties. Mineral association, occurrence, and paragenesis. Introduction to x-ray crystallography and optical mineralogy. Laboratory includes determinative crystallography and systematic determinative mineralogy.

GEOL A322 Igneous and Metamorphic Petrology 4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL A321.
Special Fees.
Identification and classification of igneous and metamorphic rocks, interpretation of textures, structures, and mineralogy of rocks; study of chemical and physical principles controlling the formation of rocks, importance of various rock types in economic and industrial arenas. Extensive study of hand specimens with emphasis on composition, texture, and structure.

GEOL A325 Geology of Ore Deposits 3 CR
Contact Hours: 3 + 0
Prerequisites: GEOL A322.
Special Fees.
Genesis, tectonic setting and properties of selected metallic ore deposits. Significant hand sample identification and paragenetic associations of ore minerals and certain ore deposits including mafic layered intrusions, hydrothermal deposits, massive sulfides, and porphyry deposits. Emphasis on origin and transport of ore bearing fluids and deposition of ore minerals.

GEOL A334 Structural Geology 4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL A221 and [MATH A105 or MATH A109].
Corequisite: GEOL A335L.
Special Fees.
Origin, recognition, and interpretation of earth’s primary and secondary structures with application to earth history, exploration and development of natural resources. Laboratory includes projections, analysis of structural contours, cross sections, block diagrams and graphical solutions to structural problems.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Special Fees</th>
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<tbody>
<tr>
<td>GEOL A340</td>
<td>Hydrogeology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>GEOL A221 and CHEM A105.</td>
<td>Special Fees.</td>
</tr>
<tr>
<td>GEOL A360</td>
<td>Geochemistry</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>(CHEM A106 or concurrent enrollment) and GEOL A221.</td>
<td>Special Fees.</td>
</tr>
<tr>
<td>GEOL A370</td>
<td>Anchorage Field Studies</td>
<td>3 CR</td>
<td>0 + 9</td>
<td>GEOL A221.</td>
<td>Prequisites: GEOL A221. Special Fees.</td>
</tr>
<tr>
<td>GEOL A381</td>
<td>Kenai Peninsula Field Studies</td>
<td>3 CR</td>
<td>0 + 9</td>
<td>GEOL A221.</td>
<td>Prequisites: GEOL A221. Special Fees.</td>
</tr>
<tr>
<td>GEOL A382</td>
<td>Geologic Field Studies</td>
<td>3 CR</td>
<td>0 + 9</td>
<td>GEOL A221.</td>
<td>Prequisites: GEOL A221. Special Fees.</td>
</tr>
<tr>
<td>GEOL A410</td>
<td>Research Techniques in Geology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>GEOL A221.</td>
<td>Registration Restrictions: Junior standing.</td>
</tr>
<tr>
<td>GEOL A421</td>
<td>Invertebrate Paleontology</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>GEOL A221.</td>
<td>Prequisites: GEOL A221. Special Fees.</td>
</tr>
<tr>
<td>GEOL A450</td>
<td>Paleoclimatology and Global Change</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>(CHEM A106 or concurrent enrollment) and GEOL A221.</td>
<td>Special Fees.</td>
</tr>
<tr>
<td>GEOL A452</td>
<td>Sedimentology and Stratigraphy</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>GEOL A221 and [STAT A252 or STAT A253 or STAT A307].</td>
<td>Special Fees.</td>
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<tr>
<td>GEOL A454</td>
<td>Glacial and Quaternary Geology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>GEOL A221.</td>
<td>Prequisites: GEOL A221. Special Fees.</td>
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<tr>
<td>GEOL A455</td>
<td>Permafrost</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>GEOL A221.</td>
<td>Prequisites: ANTH A211 and GEOL A221. Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and junior standing.</td>
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<tr>
<td>GEOL A456</td>
<td>Geoarchaeology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>GEOL A221.</td>
<td>Prequisites: GEOL A350. Special Fees.</td>
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<tr>
<td>GEOL A460</td>
<td>Environmental Geochemistry</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>GEOL A360.</td>
<td>Prequisites: CHEM A106 and GEOL A360. May be stacked with: GEOL A665. Special Fees.</td>
</tr>
<tr>
<td>GEOL A465</td>
<td>Isotope Geochemistry</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>CHEM A106 and GEOL A360. May be stacked with: GEOL A665. Special Fees.</td>
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<tr>
<td>GEOL A470</td>
<td>Geoarchaeology</td>
<td>3 CR</td>
<td>3 + 3</td>
<td>GEOL A221.</td>
<td>Prequisites: CHEM A106 or concurrent enrollment GEOL A221.</td>
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<tr>
<td>GEOL A475</td>
<td>Environmental Geophysics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>GEOL A111 and PHYS A124. Special Fees.</td>
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</table>

University of Alaska Anchorage 2009-2010 Catalog
www.uaa.alaska.edu
Chapter 13 Page 399
GEOL A480 Geologic Field Methods 3 CR  
Contact Hours: 0 + 9  
Prerequisites: GEOL A322 and GEOL A335 and GEOL A452.  
Special Fees.  
Special Note: Course may count for credit towards major if geology field camp is taken elsewhere.  
Introduction to principles and applications of basic geologic field methods, including construction of bedrock geologic maps and cross sections. Emphasis on field note taking, geologic mapping, stratigraphic section measurement, and construction. Students required to complete several field projects, including written summary reports.  

GEOL A481 Alaskan Field Investigations 3 CR  
Contact Hours: 0 + 9  
Prerequisites: GEOL A350 and GEOL A480.  
Special Fees.  
Special Note: Course fees cover lodging and camping fees. Students required to provide own food, transportation, field and camping gear.  

GEOL A482 Geologic Field Investigations 3 CR  
Contact Hours: 0 + 9  
Prerequisites: GEOL A480.  
Special Fees.  
Special Note: Course may count as credit towards the major if field camp is taken elsewhere. May be repeated with a change of subtitle for a maximum of 9 credits.  
Field excursion within the United States or another country to conduct field exercises on bedrock and/or surficial mapping, generate cross sections from maps, measure and draw stratigraphic sections, and learn regional geology and tectonic settings.  

GEOL A490 Advanced Topics in Geology 1-4 CR  
Contact Hours: 1-4 + 0  
Prerequisites: GEOL A221.  
Special Fees.  
Special Note: May be repeated with a change of topic.  
Detailed study of a selected topic in geology.  

GEOL A492 Geology Seminar 1 CR  
Contact Hours: 1 + 0  
Prerequisites: GEOL A221.  
Special Note: May be repeated under different subtitles for a maximum of 3 credits.  
Lecture series with invited professional geologists, discussion of relevant professional papers and research. Topical nature of material.  

GEOL A495 Geology Internship 1-3 CR  
Contact Hours: 1-3 + 0  
Registration Restrictions: Junior standing.  
Special Note: May be repeated, but only 3 credits count towards major requirements.  
Work experience in an approved position with supervision and training in various agencies and businesses. Exposes student to work environment beyond the campus setting, to acquire essential practical skills and enhance self-confidence and career direction.  

GEOL A498 Student Research 1-3 CR  
Contact Hours: 1-3 + 0  
Registration Restrictions: Faculty permission.  
Special Note: May be repeated for a maximum of 6 credits.  
Student research conducted on specific subjects in geology. Research topic to be approved and directed by a faculty member in the Department of Geological Sciences.  

GEOL A499 Senior Thesis 3 CR  
Contact Hours: 0 + 9  
Registration Restrictions: Senior standing. Faculty permission.  
Special Note: May be repeated for a maximum of 6 credits.  
Planning, preparation, and completion of senior thesis for the BS degree in Geological Sciences.  

GEOL A665 Isotope Geochemistry 3 CR  
Contact Hours: 3 + 0  
Prerequisites: CHEM A106 and GEOL A360.  
Registration Restrictions: Graduate standing  
May be stacked with: GEOL A465.  
Special Fees.  
Principles and applications of radiogenic and stable isotopes with emphasis on applications in the hydrologic, earth, and ecosystem sciences. Focus on both traditional and environmental aspects of isotope geochemistry and biogeochemistry and some special applications to other fields of study such as anthropology, archaeology, and forensics. A class research project will include field sampling, sample analysis, and interpretation. Independent research project required.  

GER - GERMAN  
Offered through the College of Arts and Sciences  
Administration/Humanities Building (ADM) Suite 287, 786-4030  
www.uaa.alaska.edu/languages  

GER A101 Elementary German I 4 CR  
Contact Hours: 4 + 0  
Course Attributes: UAA GER Humanities Requirement.  
Special Fees.  
Introductory course for students with no previous knowledge of the German language. Develops listening, speaking, reading, and writing skills in German for effective communication at the elementary level. Students gain understanding of basic cross-cultural perspectives. Course conducted in German.  

GER A102 Elementary German II 4 CR  
Contact Hours: 4 + 0  
Prerequisites: GER A101.  
Course Attributes: UAA GER Humanities Requirement.  
Special Fees.  
Continuation of introductory course. Further develops elementary listening, speaking, reading, and writing skills in German for effective communication. Enhances appreciation of cross-cultural perspectives. Course conducted in German.  

GER A105 Conversational Skills Maintenance I 1 CR  
Contact Hours: 0 + 2  
Registration Restrictions: Proficiency as after one semester of college-level or one year of high school study in German.  
Grade Mode: Pass/No Pass.  
May be stacked with: GER A205 and GER A305.  
Special Fees.  
Special Note: May be repeated once for credit.  
A maintenance and skills enhancement course at the elementary level, designed primarily to help students of German retain what they have learned. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.  

GER A201 Intermediate German I 4 CR  
Contact Hours: 4 + 0  
Prerequisites: GER A102.  
Course Attributes: UAA GER Humanities Requirement.  
Special Fees.  
Intermediate course for students with basic knowledge of German. Enhances listening, speaking, reading, and writing skills for effective communication at the intermediate level. Students critically examine diverse cultural perspectives. Course conducted in German.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Course Attributes</th>
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<tr>
<td>GER A202</td>
<td>Intermediate German II</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>GER A201, GER A202</td>
<td>UAA GER Humanities Requirement, Special Fees.</td>
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<tr>
<td>GER A205</td>
<td>Conversational Skills Maintenance II</td>
<td>1 CR</td>
<td>0 + 2</td>
<td>GER A205, GER A205</td>
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<td>GER A301</td>
<td>Advanced German I</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>GER A301, GER A301</td>
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<tr>
<td>GER A302</td>
<td>Advanced German II</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>GER A302, GER A302</td>
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<tr>
<td>GIS A123</td>
<td>Introduction to Geographic Information Systems (GIS)</td>
<td>1 CR</td>
<td>1 + 5</td>
<td>GIS A268</td>
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<tr>
<td>GIS A124</td>
<td>Introduction to GIS and Remote Sensing</td>
<td>1 CR</td>
<td>1 + 5</td>
<td>GIS A268</td>
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<td>GIS A125</td>
<td>GPS for GIS</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>GIS A268</td>
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<tr>
<td>GIS A127</td>
<td>Introduction to Metadata for GIS</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>GIS A268</td>
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<tr>
<td>GIS A268</td>
<td>Elements of Geographic Information Systems (GIS)</td>
<td>4 CR</td>
<td>3 + 2</td>
<td>GIS A268, GER A301</td>
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<tr>
<td>GIS A295</td>
<td>Internship in Geographic Information Systems I</td>
<td>3 CR</td>
<td>3 + 15</td>
<td>GIS A268, GER A301</td>
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<tr>
<td>GIS A366</td>
<td>Spatial Information Analysis and Modeling</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>GIS A268, GER A301</td>
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</tbody>
</table>

**Course Descriptions**

**GIS - Geographic Information Systems**

**Offered through the School of Engineering**

Engineering Building (ENGR), Room 201, 786-1900

[www.engr.uaa.alaska.edu](http://www.engr.uaa.alaska.edu)

**GIS A123**

**Introduction to Geographic Information Systems (GIS)**

- **Contact Hours:** 1 + 5
- **Registration Restrictions:** Instructor approval.
- **Grade Mode:** Pass/No Pass.
- **Special Fees:**
  - Introduces key aspects of Geographic Information Systems (GIS). Basic data structures and functionalities will be explored. Introduction to software interface. Discussion of maps, coordinate systems, and metadata. Students will gain a brief working knowledge of a GIS.

**GIS A124**

**Introduction to GIS and Remote Sensing**

- **Contact Hours:** 1 + 5
- **Registration Restrictions:** Instructor approval.
- **Grade Mode:** Pass/No Pass.
- **Special Fees:**
  - Introduces the integration of Geographic Information Systems (GIS) and Remote Sensing. Image data will be imported into a GIS and analytical applications will be explored.

**GIS A125**

**GPS for GIS**

- **Contact Hours:** 1 + 0
- **Registration Restrictions:** Instructor approval.
- **Grade Mode:** Pass/No Pass.
- **Special Fees:**
  - Introduces the utility of Global Positioning Systems (GPS) and GPS dataloggers for the collection of accurate locations and other data during field operations, and the downloading and use of the GPS data in a Geographic Information System (GIS).

**GIS A127**

**Introduction to Metadata for GIS**

- **Contact Hours:** 1 + 0
- **Registration Restrictions:** Instructor approval.
- **Grade Mode:** Pass/No Pass.
- **Special Fees:**
  - Introduces key aspects of GIS metadata, or the “data about data.” Topics include reading and writing metadata and understanding metadata standards and tools.

**GIS A268**

**Elements of Geographic Information Systems (GIS)**

- **Contact Hours:** 3 + 2
- **Registration Restrictions:** Computer competency (see admission requirements) or instructor approval.
- **Special Fees:**
  - Provides an introduction to concepts of GIS including common uses and technical concepts such as functionalities, data structures (raster and vector), data sources, metadata, databases, coordinate systems, geocoding, and spatial analysis. Investigation of system implementation, management, accuracy, and legal issues. Application of GIS analysis functions and standard query languages. Application of GIS to real-world problems.

**GIS A295**

**Internship in Geographic Information Systems I**

- **Contact Hours:** 3 + 15
- **Prerequisites:** GIS A268 with minimum grade of C.
- **Grade Mode:** Pass/No Pass.
- **Special Fees:**
  - Entry-level professional experience in geographic information systems through an internship with a local employer. Typical entry-level tasks to be conducted for employer include: data entry, data coding and cleaning, importing and exporting data, creation of annotation, and map compilation.

**GIS A366**

**Spatial Information Analysis and Modeling**

- **Contact Hours:** 2 + 2
- **Prerequisites:** GIS A268 with minimum grade of C.
- **Special Fees:**
COURSE DESCRIPTIONS

GIS A367  GIS and Remote Sensing  3 CR
Contact Hours:  2 + 2
Prerequisites: GEO A167 with minimum grade of C and GIS A268 with minimum grade of C.
Special Fees:  
Develops the students' ability to use remotely sensed data within the framework of GIS. Covers basic physics theory required for the use of remotely sensing technology. Includes practical applications of the science using remotely sensed data, including the use of industry standard GIS software packages.

GIS A369  Land Information Systems  3 CR
Contact Hours:  2 + 2
Prerequisites: GIS A268 with minimum grade of C.
History and philosophy of land, surveying, and land information systems in North America and other regions. Land data systems. Overview of methods for describing and interpreting land descriptions as well as data acquisition, methods, design, and applications for LIS. Issues of accuracy assessment, public lands, and information.

GIS A370  GIS and Remote Sensing for Natural Resources  3 CR
Contact Hours:  2 + 2
Prerequisites: GEO A167 with minimum grade of C and GIS A367 with minimum grade of C.
An investigation of natural resources and ecosystem management and the application of geomatic technologies for their assessment and interpretation. Data gathered from a variety of sources, including remote sensing, ground truthing, GIS, and databases, will be combined into a GIS and evaluated with image analysis software to explore management and land use planning strategies. Environmental impact assessments, environmental modeling, and rapid ecological assessment (REA) in decision making for natural resource planning and management.

GIS A375  GIS and Public Health  3 CR
Contact Hours:  2 + 2
Prerequisites: GIS A268 with minimum grade of C.
Examines the use of geographic information systems (GIS) in the analysis of public health data. Students will develop GIS and cartographic skills through lectures, class work, and case studies, and specifically learn GIS operations that are essential in public health investigations and research.

GIS A433  GIS and the Marine Environment  3 CR
Contact Hours:  2 + 2
Prerequisites: GIS A268 with minimum grade of C and GIS A366 with minimum grade of C.
Investigation and integration of the physical, biological, political, and cultural aspects of the oceans, seas, and coastal zones, which comprise over 70% of the Earth’s surface. The essential processes, theories, and information necessary to apply Geomatics technologies to the seas. The application of Geographic Information Systems (GIS) mapping and analyses to marine environments.

GIS A458  Design and Management of Spatial Data  3 CR
Contact Hours:  2 + 2
Prerequisites: GIS A366 with minimum grade of C.
Spatial database system philosophy and concepts including decision making criteria, design, planning, implementation, and management. Discussion of spatial data standards, legal issues, and national spatial data policies. Project implementation and management.

GIS A460  GIS Senior Project  3 CR
Contact Hours:  0 + 9
Registration Restrictions: Students seeking a Bachelor of Science in Geomatics need senior standing in Geomatics program with all 300-level courses completed or instructor approval. Students seeking a Certificate in GIS must complete all core classes or instructor approval.
Special Fees:  
Senior project in GIS (geographic information systems). Research, design, data compilation, analyses, and mapping. Professional standards and ethical concerns for GIS professionals.

GIS A468  Integration of Geomatic Technologies  3 CR
Contact Hours:  2 + 2
Prerequisites: GIS A268 with minimum grade of C and GEO A167 with minimum grade of C.
Integration of geomatic technologies: Global Positioning Systems (GPS), remote sensing, digital photogrammetry, and image processing for data acquisition and compilation of digital databases for Geographic Information Systems, mapping, and other special studies.

GIS A470  GIS for Facility Management and Transportation Systems  3 CR
Contact Hours:  2 + 2
Prerequisites: GIS A366 with minimum grade of C.
Facility management using GIS including dispatching, inventory, and maintenance. System design for industry. Data collection techniques and integration. GIS facility management applications including utilities (water, waste water, electricity, gas, telephone), airports, military installations, transportation systems, IT systems, property, and other building systems.

GIS A490  Selected Advanced Topics in GIS  1-6 CR
Contact Hours:  1-6 + 0
Registration Restrictions: Instructor approval.
Special Fees:  
Advanced theoretical or practical concepts in GIS. Specific course content is determined by student needs, program needs, and developments in technology.

GIS A495  Internship in Geographic Information Systems II  3 CR
Contact Hours:  0 + 15
Prerequisites: GIS A268 with minimum grade of C and GIS A366 with minimum grade of C.
Grade Mode: Pass/No Pass.
Special Fees:  
Advanced professional experience in geographic information systems through an internship with a local employer. Typical tasks to be conducted for employer include: data entry, data coding and cleaning, importing and exporting data, creation of annotation, georeferencing, rubbersheeting, spatial analyses, documentation of metadata, and map compilation.

GUID - GUIDANCE

Offered through the Advising and Testing Center
University Center (UC), Room 112, 786-4500
www.uaa.alaska.edu/advising-testing

GUID A101  Introduction to Peer Advising  3 CR
Contact Hours:  3 + 0
Introduction to the peer advising model with emphasis on the information dissemination and paraprofessional counseling aspects. This course is the training class for the peer advising program.

GUID A104  Student Association Leadership I  1-3 CR
Contact Hours:  2 + 2
Survey of student leadership topics including techniques of organizational planning, management, program planning, budgeting, group dynamics, communication and leadership theories and techniques. Application of techniques through program/service projects utilizing the student association as a laboratory.

GUID A150  Survival Skills for College Students  3 CR
Contact Hours:  3 + 0
Special Fees:  
Designed to increase student skills needed to reach educational objectives. Includes memory techniques, time management, library skills, lecture notes, goal setting and test taking. Techniques, skills, hints, aids, resources, ideas, methods and suggestions for student survival in college.

GUID A150A  Survival Skills/College  1 CR
Contact Hours:  1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Participation in a variety of activities including, reading, notetaking and follow-up, large and small group discussions and activities, short written assignments and/or quizzes.
**HCA - HEALTH CARE ASSISTING**
Offered through Kenai Peninsula College
34820 College Drive, Soldotna, Alaska 99669, (907) 262-0330
www.kpc.alaska.edu

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<tr>
<td>HCA A103</td>
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<tr>
<td>HCA A105</td>
<td>Certified Nurse Aide</td>
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HCA A101 Western Civilization I 3 CR
- Contact Hours: 5 + 0
- Course Attributes: UAA GER Humanities Requirement
- A chronological overview of Western Civilization from ancient times through the Middle Ages and Renaissance. Emphasis on the economic, social, political, and intellectual development of the period. Students will be introduced to primary sources and interpretations in American history.

HCA A102 Western Civilization II 3 CR
- Contact Hours: 3 + 0
- Course Attributes: UAA GER Humanities Requirement
- Provides a broad understanding of the historical, cultural, and social development of Chinese, Japanese, and Korean civilization from their prehistoric origins through approximately 1600. The major social, political, economic, intellectual, and cultural characteristics will be emphasized.

HCA A121 East Asian Civilization I 3 CR
- Contact Hours: 3 + 0
- Course Attributes: UAA GER Humanities Requirement
- Provides an overview of the developments in Eastern Civilization from its origins in the ancient Near East through 1650. The major social, political, economic, intellectual, and cultural characteristics will be emphasized.

HCA A122 East Asian Civilization II 3 CR
- Contact Hours: 3 + 0
- Course Attributes: UAA GER Humanities Requirement
- Provides a broad understanding of the historical, cultural, and social development of East Asia from approximately 1600 through 1890. The major social, political, economic, intellectual, and cultural characteristics will be emphasized.

HCA A131 History of United States I 3 CR
- Contact Hours: 3 + 0
- Course Attributes: UAA GER Humanities Requirement
- Provides an overview of the United States history from Reconstruction to the present. Emphasizes the social, political, and economic forces that have shaped the country during the period. Students will be introduced to primary sources and interpretations in American history.

HCA A132 History of United States II 3 CR
- Contact Hours: 3 + 0
- Course Attributes: UAA GER Humanities Requirement
- Provides a broad understanding of the historical, cultural, and social development of the United States from the years following the Civil War through World War II. Emphasis on the economic, social, political, and intellectual development of the period. Students will be introduced to primary sources and interpretations in American history.

**HIST - HISTORY**
Offered through the College of Arts and Sciences
Administration/Humanities Building (ADM), Room 147, 786-1539
www.uaa.alaska.edu/history

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COURSE DESCRIPTIONS

HIST A314 Nineteenth Century Europe 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A102.
Examines the key political, social, economic and cultural developments in 19th century Europe. Special emphasis will be placed on the French and Napoleonic revolution; restoration and reaction; industrialization and urbanization; romanticism, liberalism and socialism; nationalism and national unification; imperialism; fin de siècle culture; and daily life.

HIST A316 Twentieth Century Europe 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A102.
Examines the key political, social, economic, intellectual and cultural developments in 20th century Europe. Special emphasis will be placed on the broad historical forces at work during the 20th century—such as war, revolution, fascism, communism, democracy, modernization, decolonization and globalization— and how both elites and ordinary people responded to a changing world.

HIST A320 The Rise, Fall, and Reinvention of the Samurai 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A121 and HIST A122 and HIST A231.
An analysis of the historical origins, rise to prominence, dominance, and the fall of the warrior caste of Japan. Principal focus on the constant reinvention of the samurai and the "spirit of the samurai" was used in Japan's modernization.

HIST A321 Modern China 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A121 or HIST A122.
Chinese history from the middle of the Qing (Manchu) Dynasty, about 1800, through the 1990s. Designed to provide a broad understanding of the historical, cultural, and social development of China as it made the transition to a modern state.

HIST A322 Modern Japan 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A121 or HIST A122.
Japanese history from the last decades of the Tokugawa Shogunate, about 1800, through the 1990s. Designed to provide a broad understanding of the historical, cultural, and social development of Japan as it made the transition to a modern state.

HIST A323 Communist China 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A122 and HIST A321.
Analysis of the historical origins, rise, struggles, and eventual triumph of the Chinese Communist Party in taking control of China in 1949. Examines the wrenching upheavals of the People's Republic under Mao Zedong and its transformation under Deng Xiaoping from 1949 through the 1990s. The principal focus will be on the constant reinvention of Chinese communism to face perceived challenges in China's modernization, sometimes with spectacular results and at other times with disastrous consequences.

HIST A325 Northeast Asia in 21st Century 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior standing. Completion of GER Tier 1 (basic college-level skills) courses. Six credits of Tier 2 GEOG, HIST, or PS courses. Crosslisted with: INTL A325 and PS A325.
Course Attributes: UAA GER Integrative Capstone.
An interdisciplinary examination and analysis of Northeast Asia covering China, the Koreas, and Japan, designed to provide students with the means to understand how the societies of this region have developed separate and distinct identities despite their common cultural and philosophic roots.

HIST A330 Russian in East Asia 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A102 or HIST A121.
History of the relationships between Russia and its neighbors in East Asia and the Pacific. Among the major themes to be explored are the impact of the Mongol conquest, contact and colonization in the “borderlands,” historical debates on the importance of East Asia and the Pacific to Russia, and the articulation and pursuit of Russian geopolitical interests in the region.

HIST A341 History of Alaska 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A122.
Registration Restrictions: HIST A132 equivalent accepted with instructor permission.
Course Attributes: UAA GER Humanities Requirement.
An introduction to Alaska and its relationship to America and the world, including Alaska geography, Alaska Native anthropology, and a detailed chronological history of the 49th state. Topics include Russian exploration, occupation, and management; Native-Russian relations; the Alaska Purchase; U.S. military; missionaries; gold rushes; territorial era; statehood; Native land claims and corporations; oil development and the disposition and management of Alaska lands.

HIST A345 Across This Land: The Historical Geography of North America 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A131.
Crosslisted with: GEOG A345.
Special Note: GEOG A205 recommended.
Examines the European settlement of North America (U.S. and Canada), the impact of geography on this settlement, and the impress of culture and political process on the land. A significant part of the course compares and contrasts the American and Canadian geographic experience and the creation of distinct regional cultures.

HIST A355 Major Themes in US History 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A131 and HIST A132.
Examines major themes that have shaped and impacted American history and contemporary society. Such themes may include, but are not limited to, democracy, global relations, and multiculturalism. Course emphasizes reading and analysis of primary sources to discern and evaluate the human experience.

HIST A360 Modern Economic History 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A102 and ECON A201.
Crosslisted with: ECON A360.
Examines the role of geography, institutions, technology, and trade in the evolution of the modern economy. Emphasizes the long-run economic performance of Europe and the US. Also covers historic differences between the West and other parts of the world.

HIST A377 Historiography: The Uses and Abuses of History 3 CR
Contact Hours: 3 + 0
Prerequisites: [HIST A101 and HIST A102] or [HIST A131 and HIST A132].
Explores how historians “do” history by examining the various historical methods, theories, and approaches used to interpret and to understand the human past and its significance. Investigates the relationships between experiencing, remembering, and reconstructing the past.

HIST A381 American Women's History to 1870 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A131.
Explores the nature of American women's history and how women's lives in North America have changed over time. Major topics include the impact of the economy, family, sexuality, the community, and politics from the 17th century through the Civil War, and the rise of the women's movement.

HIST A382 American Women's History Since 1870 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A132.
Explores the nature of American women's history from the Civil War to the present focusing on the political, economic, and social conditions of the past one hundred years which have shaped women's lives in the U.S. Readings will center on autobiographical sources as well as scholarly articles and books. The class will be run as a seminar with introductory lectures or comments for each weekly topic.

HIST A390A Themes in World History 3 CR
Contact Hours: 3 + 0
Prerequisites: GEOG A101 and [HIST A101 or HIST A102 or HIST A121 or HIST A131 or HIST A132].
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and junior standing.
Course Attributes: UAA GER Integrative Capstone.
Special Note: May be repeated once for credit with a change of subtitle.
Provides students with opportunities to analyze patterns of meaning in the accumulated record of the human experience from prehistory to the present, contemplated on the most inclusive scale, that of the entire world. The course is comparative and interdisciplinary.

HIST A401 The History of Warfare 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A101 and HIST A102.
The history of warfare from the classical age to the present. Examines theories of the origins of war, social, economic, and political organization for war, technology and weapons; administration and logistics; asymmetrical conflict; strategic and tactical systems; war and revolution; and the impact of nuclear weapons.

HIST A402 The Second World War 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A102 or HIST A122.
The origins of the war in Europe and Asia. The grand strategies of the belligerents, the principal military operations, the relationship between science and war, and the mobilization of societies and economies for total war. War-time diplomacy and the postwar settlements are also emphasized.
HIST A411 History of Modern Germany 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A102.
Examines the key political, social, economic and cultural developments in German history from 1800 to present. Focuses on 19th century unification, Imperial Germany, the Weimar Republic, Nazism and World War II, division and the Cold War, the two postwar Germanies, and contemporary re-unified Germany.

HIST A415 Anglo-Saxons and Vikings: History & Geography in Early Medieval North Atlantic 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A101.
Crosslisted with: GEOG A415.
Special Note: GEOG A205 recommended.
A study of Anglo-Saxon and Viking society, territorial expansion, and settlement from the 7th-11th centuries. Focus on historical impacts on the human landscape, political arrangement, and the effects of climate and environmental modification on population growth and migration.

HIST A418 Tudor and Stuart England 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A101.
The history of England from the accession of Henry VII to the death of Anne. Major topics are the development of modern instruments of government, the English Reformation, and the ensuing religious struggle, the Civil War and the Glorious Revolution, and the establishment of parliamentary government.

HIST A423 Medieval Russian History 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A101.
Explores the socio-economic, political, and cultural foundations of Medieval Russia beginning with ancient Slavic settlements and foreign invasions and concluding with the creation of the Romanov dynasty in the 17th century. Major topics include the impact of foreign invasions (e.g. Mongols), the influence of the Byzantine Empire, the rise of Muscovy, and the internal dynamics of Muscovite society.

HIST A424 Imperial Russian History 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A102.
Explores the socio-economic, political, and cultural foundations of Imperial Russia from the seventeenth century to the early twentieth century. Themes include the nature of autocracy, the “golden age” of the aristocracy, the role of serfdom, the rise of revolutionary ideology and action, the impact of war, and the relationship between state and society.

HIST A425 History of the Soviet Union 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A102.
Explores the creation, maintenance, and collapse of the Soviet Union, beginning with the nineteenth-century antecedents of the Russian Revolutions of 1917. Examines major events, personalities, and ideas that played a leading role in constructing Soviet society from 1917 to 1991. Themes include the triumph of Bolshevism, the creation of “Soviet society,” Stalinism and its legacies, and the dismantling of the Soviet regime.

HIST A427 Post-Soviet Culture and Society 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A102.
Registration Restrictions: Completion of all Tier I GER (basic college-level skills) courses; and Junior standing. Prerequisite HIST A102 or any RUSS prefix course.
Crosslisted with: RUSS A427.
Course Attributes: UAA GER Integrative Capstone.
Interdisciplinary examination and analysis of contemporary Russian culture and society. Explores major themes in post-Soviet society including shifting identities and changing social, cultural, political, and economic realities, and examines how these are expressed in a variety of contemporary sources. Conducted in English.

HIST A431 America: Colonies and Revolution 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A131.
An American history course that covers the period from the early 1600s to 1801. The two main themes are the interaction between different ethnic and cultural groups, and the creation and development of various political, economic, social, and cultural institutions in the United States.

HIST A434 Early National Period, 1800-1850 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A131.
Examines the political, economic, social, and cultural developments in American history from 1800-1850.
HIST A690   Studies in History     3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Special Note: May be repeated for credit with a change in subtitle.
An examination of an aspect of history from the perspective of a major field in the discipline.

HLTH - HEALTH
Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 161, 786-4894
www.uaa.alaska.edu/ctc/alliedhealth

HLTH A101   Introduction to Health Occupations     3 CR
Contact Hours: 2 + 2
Special Fees: Introduces basic knowledge and skills of health care occupations including
principles of infection control, medical office procedures, general patient care,
professionalism, cardiopulmonary resuscitation and first aid. Provides laboratory
compONENT for development of associated clinical skills. Includes introduction to health
care facilities and careers in health care.

HNRS - HONORS
Offered through the University Honors College
Edward and Cathryn Rasmuson Hall (RH), Room 119, 786-1086
www.uaa.alaska.edu/honors

HNRS A191   Freshman Honors Tutorial     1 CR
Contact Hours: 1 + 0
Registration Restrictions: Registration limited to students admitted to the Forty-Ninth
State Fellows Program, and also open to students enrolled in the University Honors
College who have permission to register from the University Honors College.
Special Note: Subtitle varies; may be repeated once for credit with a different subtitle.
Concurrent enrollment is required in the associated course whose title is the same as the
subtitle of HNRS A191.
Offers freshman-level intensive reading, writing, and discussion relating to the
content of another course with which it is associated; the associated course varies from
term to term. Students receive additional instruction in interpreting texts, recognizing
distinctions and explaining them in expository writing, and defending their opinions in
class discussion.

HNRS A192   Honors Seminar: Enduring Books     3 CR
Contact Hours: 3 + 0
Registration Restrictions: Registration limited to students admitted to the University
Honors College, or to students who have permission to register from the University
Honors College.
Course Attributes: UAA GER Humanities Requirement.
Special Note: May be repeated once for credit with a different subtitle. May be used
only once for GER Humanities.
Honors seminar focusing on the directed reading of a single book of enduring
significance.

HNRS A209   Participatory Action Research     3 CR
Contact Hours: 3 + 0
Registration Restrictions: 3 credits of Written Communication GER with a minimum
grade of C and Oral Communication GER with a minimum grade of C; Quantitative
Skills GER is recommended. Requires instructor permission.
Participatory action research (PAR) is a faculty-student collaborative process of
inquiry and action for change in response to organizational or community problems.
Overview of the PAR process, plus examination of the democratizing and emancipatory
power of PAR.

HNRS A291   Sophomore Honors Tutorial     1 CR
Contact Hours: 1 + 0
Prerequisites: HNRS A191 and HNRS A192.
Registration Restrictions: Registration limited to students admitted to the Forty-Ninth
State Fellows Program, and also open to students enrolled in the University Honors
College who have permission to register from the University Honors College.
Special Note: Subtitle varies; may be repeated once for credit with a different subtitle.
Concurrent enrollment is required in the associated course whose title is the same as the
subtitle of HNRS A291.
Offers sophomore-level intensive reading, writing, and discussion relating to the
content of another course with which it is associated; the associated course varies from
term to term. Students receive additional instruction in analyzing theoretical approaches in
the readings, demonstrating their grasp of questions in expository writing, and using these
skills in class discussion.

HNRS A292   Honors Seminar in Social Science     3 CR
Contact Hours: 3 + 0
Registration Restrictions: Registration limited to students admitted to the University
Honors College, or to students who have permission to register from the University
Honors College.
Course Attributes: UAA GER Social Sciences Requirement.
Special Note: May be repeated once for credit under a different subtitle.
Examines selected topics from a social science perspective. Exposes students to a
broad range of social issues, and helps them to develop skills to examine and evaluate
their world. Emphasizes research findings and skills, including the collection and
analysis of both quantitative and qualitative data. Students will gain considerable
experience communicating both orally and in writing.

HNRS A309   Interdisciplinary Team-Based Research Methods     3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A200 with minimum grade of C or MATH A272 with minimum
grade of C.
Registration Restrictions: Registration limited to students admitted to the University
Honors College, or to students who obtain permission to register from the University
Honors College.
Examines the principles and methods of conducting research in a collaborative, team-
based environment. Under the supervision of the instructor, students from different
disciplines will be placed into teams that must work together to solve a complex systems
problem requiring collaboration across disciplines. The instructor will guide the teams
to formulate a research plan, illustrate how to perform data analysis and experimental
methodology, and provide guidance on effective team management. May include guest
lecturers for different application areas.

HNRS A310   Community Service: Theory and Practice     3 CR
Contact Hours: 1 + 6
Registration Restrictions: Sophomore or junior standing. Registration open to students
admitted to University Honors College, to students who have permission to register
from the University Honors College, and to students working on the Certificate in Civic
Engagement.
Explores questions of service, community, and self, and includes guided volunteer
service with a cultural organization, social service organization, or government agency.

HNRS A390   Special Topics Honors Seminar     3 CR
Contact Hours: 3 + 0
Registration Restrictions: Students admitted to the University Honors College, or to
students who have permission to register from said College. Completion of GER Tier 1
required.
A special topics seminar focusing on a theme generally outside the scope of those
presented in non-seminar courses. The seminar’s format is Socratic and requires student
research addressing the seminar’s topic. Course may be repeated once with different
seminar topic.

HNRS A391   Junior Honors Tutorial     1 CR
Contact Hours: 1 + 0
Prerequisites: HNRS A291 and HNRS A292.
Registration Restrictions: Registration limited to students admitted to the Forty-Ninth
State Fellows Program, and also open to students enrolled in the University Honors
College who have permission to register from the University Honors College.
Special Note: Subtitle varies. Concurrent registration is required in the associated course
whose title is the same as the subtitle of HNRS A391.
Offers junior-level intensive reading, writing, and discussion relating to the content
of another course with which it is associated; the associated course varies from term to
term. Students receive additional instruction in analyzing theoretical approaches in
the readings, developing and arguing for a thesis in expository writing, and applying critical
thinking to class discussion.

HNRS A392   Honors Thesis Seminar     1 CR
Contact Hours: 1 + 0
Prerequisites: HNRS A192 and HNRS A292 and HNRS A310.
Registration Restrictions: Registration limited to students admitted to the University
Honors College, and to students who have permission to register from the University
Honors College.
In-depth application of discipline research skills to a particular problem. Develops an
understanding of research problems and research methods used by different disciplines.
HS A490 Senior Honors Seminar 6 CR
Contact Hours: 6 + 0
Registration Restrictions: Registration limited to students admitted to University Honors College, and to students who have permission to register from the University Honors College. Completion of GER Tier 1 (basic college-level skills) courses and junior standing.
Course Attributes: UAA GER Integrative Capstone.
Special Note: The course extends over both fall and spring semesters earning six hours credit thereby satisfying the three hour GER Integrative Capstone Course requirement. A passing grade is dependent on successful completion of the year-long course.

A two-semester long interdisciplinary Honors seminar investigating a central theme extending beyond the confines typically found within the individual disciplines and majors. Course is delivered in a Socratic style with themes generally focusing on the emerging 21st century leading to an enhanced understanding of the complex world of the future and of the student's role in it.

HS A495 Honors Internship 1-6 CR
Contact Hours: 0 + 3-18
Registration Restrictions: Permission from the University Honors College and approval by a faculty member acting as the internship advisor.
Special Fees.
Special Note: Repeatable once for credit with a change of internship venue.
Applying interdisciplinary knowledge and skills to a student internship project, through a variety of governmental and private settings both within and outside of Alaska.

HS A499 Honors Thesis 3 CR
Contact Hours: 0 + 6
Prerequisites: HNRS A392.
Registration Restrictions: Senior Standing. Permission from the University Honors College and approval by a faculty member acting as thesis advisor.
Special Note: May be repeated for a maximum of six credits.
Independent research under faculty supervision, including formulation of research topic, research and analysis, and defense.

HS - HEALTH SCIENCES

HS A220 Core Concepts in the Health Sciences 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Social Sciences Requirement.
Orientation to health issues in the United States and Alaska. Explores basic dynamics of health and illness, transition from infections to chronic illness, measures of population health and overall health care delivery system. Examines medical, psychological, socio-cultural, economic and environmental factors related to health status and prevention of illness at the individual and the community levels. Addresses the history, goals and population health outcomes at the community, state and national levels.

HS A370 Medical Sociology 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Crosslisted with: SOC A370.
A historical and contemporary overview of selected social, political, and economic factors that influence the provision of health care in America. Focuses on the relationship between health care and race, sex, social stratification, and geographical location. Brief international comparisons with alternative-for-profit and not-for-profit national health care systems.

HS A433 Health Education: Theory and Practice 3 CR
Contact Hours: 3 + 0
Crosslisted with: NS A433.
Introduction to the principles, methods and resources used in health education. Examines psychosocial and cultural determinants of health behavior and their role in the development of effective health education strategies. Explores organizational, societal and professional issues influencing health education for individuals, groups and communities.

HS A463 Physician Assistant Clinical Clerkship I 12 CR
Contact Hours: 0 + 4
Registration Restrictions: MEDEX 469. Acceptance into the University of Washington MEDEX Northwest Physician Assistant Program or by instructor permission.
Grade Mode: Pass/No Pass.
The first of a two-part course that provides clinical practice in selected institution-based or specialty practice settings, such as psychiatry, dermatology, emergency medicine, orthopedics, surgery, or gynecology and obstetrics.

HS A464 Physician Assistant Clinical Clerkship II 12 CR
Contact Hours: 0 + 4
Prerequisites: HS A463.
Registration Restrictions: Acceptance into the University of Washington MEDEX Northwestern Physician Assistant Program.
Grade Mode: Pass/No Pass.
The second of a two-part course that provides clinical practice in selected institution-based or specialty practice settings, such as psychiatry, dermatology, emergency medicine, orthopedics, surgery, or gynecology and obstetrics.

HS A465 Physician Assistant Family Practice Clerkship I 12 CR
Contact Hours: 0 + 4
Registration Restrictions: MEDEX 464. Acceptance into the University of Washington MEDEX Northwest Physician Assistant Program.
Grade Mode: Pass/No Pass.
The first part of a two-course sequence that encompasses the treatment of patients in all age groups. Focus is on health maintenance, preventive care, and the psychosocial aspects of illnesses as they relate to the patient and his/her family.
Students will develop the skills necessary to evaluate, manage, and monitor common health complaints and problems.

HS A466 Physician Assistant Family Practice Clerkship II 12 CR
Contact Hours: 0 + 4
Registration Restrictions: MEDEX 465. Acceptance into the University of Washington MEDEX Northwest Physician Assistant Program.
Grade Mode: Pass/No Pass.
The second part of a two-course sequence that encompasses the treatment of patients in all age groups. Focus is on health maintenance, preventive care, and the psychosocial aspects of illnesses as they relate to the patient and his/her family.
Students will develop the skills necessary to evaluate, manage, and monitor common health complaints and problems.

HS A490 Selected Topics: Health Care Issues in Alaska 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Successful completion of MEDEX NW first year courses or instructor permission.
Provides specialized course content for health care professionals in Alaska. Topics covered will be of special interest to practitioners in both rural and urban settings. Subjects will be drawn from current health care priority areas including diseases specific to Alaska, substance abuse, behavioral health, and appropriate health care practices.

HS A491 Health Issues in Alaska 3 CR
Contact Hours: 3 + 0
Prerequisites: HS A463 or HS A465.
Major Restriction: Must be Health Sciences major.
Registration Restrictions: Health Sciences Physician Assistant Track Major or instructor permission.
Course Attributes: UAA GER Integrative Capstone.
Describes historical to present health status of Alaskans, emphasizing health disparities. Students research and implement strategies to reduce risk through health behavior change; evaluate clinical practices using quality measures to improve care quality; and explore social, cultural, and economic factors related to health policy and the clinician's role in health advocacy.

HS A605 Public Health and Society 3 CR
Contact Hours: 3 + 0
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: Admission to MPH Program or faculty permission. Special Fees.
Incorporates behavioral and social science concepts in analyzing a variety of public health issues nationally, in Alaska and the northern regions. Presents how socioeconomic status, culture, race/ethnicity, age, and gender relate to health and disease outcomes and the quality of life. Provides knowledge on health promotion and disease prevention interventions.

HS A610 Environmental and Occupational Health 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to MPH Program or faculty permission. Special Fees.
Provides an overview of environmental factors including biological, physical, chemical, and occupational factors that affect the health of a community. Combines an overall ecological concern with specific elements related to personal and community health, emphasizing the interrelatedness of the two.
HS A615  Health Services Administration  3 CR
Contact Hours: 3 + 0
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: Admission to MPH program or faculty permission.
Special Fees.
Provides students with knowledge and tools to understand the planning, organization, administration, management, evaluation and policies of public health programs in the U.S. and particularly, Alaska. Applies an epidemiological model for health services delivery, strategic planning, health care quality management, performance standards, interagency cooperation, human resource management and ethics.

HS A624  Circumpolar Health Issues  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to MPH Program or faculty permission.
Special Fees.
Provides a critical analysis of key circumpolar health issues, with a particular emphasis on the application of current research to professional practice, programs and policy. The overall goal of this course is for students to develop and demonstrate a level of professionally sophisticated critical analysis skills, problem-solving abilities, and expertise in public health issues most relevant to Alaska and other circumpolar regions. Opportunity to explore these issues within an Alaskan context will be provided in assignments.

HS A625  Biostatistics for Health Professionals  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing or instructor permission. Undergraduate statistics course with a grade of C or better. Crosslisted with: NS A625.
Special Fees.
Principles of statistical reasoning and quantitative skills for analyzing health data. Topics include the binomial, Poisson, and normal distributions, the treatment of rates, measures of location and dispersion, and testing of statistical hypotheses. Both descriptive and inferential statistics are illustrated in mortality and morbidity problem sets requiring manual or computer assisted calculations. The comparison of methodological techniques and the choice of appropriate statistical methods to answer health research questions are stressed. This course is designed to enhance rather than substitute for statistical knowledge gained at the undergraduate level.

HS A625L  Biostatistics for Health Professionals Lab  1 CR
Contact Hours: 0 + 3
Prerequisites: (HS A625 or concurrent enrollment) or (NS A625 or concurrent enrollment).
Registration Restrictions: Grade of C or better in undergraduate research and statistics. Graduate status or faculty permission.
Grade Mode: Pass/No Pass. Crosslisted with: NS A625L.
Introduction to statistical analysis using the Statistical Package for the Social Sciences (SPSS) computer program. Focuses on creating a database, evaluating these data for entry errors, identifying statistical test assumptions, and computing descriptive and inferential statistics.

HS A626  Principles of Epidemiology  3 CR
Contact Hours: 3 + 0
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: Graduate standing or instructor permission. Crosslisted with: NS A626.
Special Fees.
Presents the study of patterns of disease and injury in human populations and the application of this study to the control of health problems. Introduces students to the basic principles and study designs of epidemiology. Covers the application of epidemiologic methods to the understanding of the occurrence and control of conditions such as infectious and chronic diseases, psychological and behavioral disorders, community and environmental health hazards, accidents, and genetic conditions.

HS A628  Program Evaluation  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Successful completion of MSW foundation requirements or admission as advanced standing, or graduate standing in Health Sciences. Crosslisted with: SWK A628.
Special Fees.
Theory and practice of agency or community-based research and evaluation. Course topics include commonly used evaluation models and research designs, politics and ethics of conducting and using research in an applied setting, communicating findings.

HS A629  Public Health Research Tools and Methods  4 CR
Contact Hours: 3 + 2
Prerequisites: HS A625 and HS A626.
Registration Restrictions: Admission to MPH program or faculty permission.
Special Fees.
Introduces basic principles and methods of health-related research from its conception to analysis and evaluation. Provides an overview of quantitative and qualitative methods. Requires certificate of completion of UAA-approved Human Subjects Research Education Course. Lab sessions provide basic hands-on training of select quantitative and/or qualitative analytical software.

HS A630  Public Health Emergencies and Disasters  3 CR
Contact Hours: 3 + 0
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: Admission to MPH Program or faculty permission.
Special Fees.
Explores public health issues concerning natural and human-generated disasters and emergencies that occur in Alaska, the U.S., and different parts of the world. Includes topics on geophysical and weather-related problems, infectious diseases, war, and related concerns. Addresses prevention and public health interventions, including preparedness, response, and recovery strategies, as well as social, political, legal, and ethical challenges.

HS A690  Selected Topics in Public Health  1-4 CR
Contact Hours: 1-4 + 0
Registration Restrictions: Department permission.
Special Fees.
Special Note: May be repeated for credit with different subtitles.
Focuses on special, emerging, current, local, and other topics in public health.

HS A699  Thesis Practicum  1-5 CR
Contact Hours: 0 + 3-15
Registration Restrictions: Admission to MPH Program and Academic Advisor approval.
Special Fees.
The thesis practicum culminates a program of advanced study and should evidence a high degree of scholarly and professional competence. It serves as the basis for evaluating the capability of its author in the areas of applied research and professional practice. The thesis practicum is a reflection of the student's capabilities, with the help and guidance of the faculty and appropriate community members. The student's work is reviewed by her/his thesis committee to judge the author's scholarship and professional presentation, and to ascertain that the student has demonstrated his/her knowledge and ability to receive the Master's Degree.

HUM - HUMANITIES
Offered through the College of Arts and Sciences
Social Sciences Building (SSB), Room 343, (907) 786-6049
http://liberalstudies.uaa.alaska.edu

HUM A205  Fridays Ten 'Til Two  1 CR
Contact Hours: 1 + 0
Special Note: See schedule for current title offering.
Interdisciplinary program of lectures and discussions led by faculty and community leaders.

HUM A211  Introduction to Humanities I  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Registration Restrictions: 3 credits of Fine Arts GER
Course Attributes: UAA GER Humanities Requirement.
Uses humanities-based methods of inquiry and analysis to interpret art works representative of diverse media, world cultures, and historical eras. Approaches different systems of aesthetic representation through investigations of form, meaning, and values. Places the contributions of individual artists in historical and cultural context.

HUM A212  Introduction to Humanities II  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A211 or ENGL A212 or ENGL A213 or ENGL A214.
Registration Restrictions: 3 credits of Fine Arts GER
Course Attributes: UAA GER Humanities Requirement.
Uses methods of contemporary humanities-based inquiry to explore major intellectual and aesthetic trends in the world's heritage of arts and ideas. Examines ideas and examples of the arts in the historical and cultural context of their development. Considers how the world's heritage of arts and ideas relates to the aesthetic and intellectual products of a specific world culture or historical era.
### COURSE DESCRIPTIONS

#### HUMS A220 Film as/and Literature 3 CR
Contact Hours: 3 + 0
An exploration of what makes good literature and good film, and the relationship between the two genres. Focuses on how literary and cinematic expression differs, and how—or if—the former translates into the latter. Students learn to read novels, plays, and short stories critically and to watch films critically. Two critical essays required; readings are numerous.

#### HUMS A230 Introduction to Folklore 3 CR
Contact Hours: 3 + 0
Introduces history, central themes, genres and methodology of contemporary folklore studies emphasizing folklore as a discipline. Focuses on the interplay of community, creativity, and symbolic communication in human society by looking at tradition, landscape, ethnicity, material culture, vernacular architecture, oral history, belief, song, and performance.

#### HUMS A250 Myths and Contemporary Culture 3 CR
Contact Hours: 3 + 0
Prerequisites: COMM A111 and ENGL A111.
Course Attributes: UAA GER Humanities Requirement.
Explores the transmission of myths which affect contemporary cultures. Surveys myths featured in literature, the fine arts, the performing arts, folklore, and popular culture. Examines how individual values, historical change, and cross cultural contact have influenced both the resilience and transformation of these myths.

# HUMS - HUMAN SERVICES

Offered through the College of Health & Social Welfare
Beatrice McDonald Hall (BMH), Room 106, 786-6437
http://hums.uaa.alaska.edu

#### HUMS A101 Introduction to Human Services 3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: Offered Fall and Spring Semesters.
Overview of human services. Includes traditional and contemporary helping approaches, plus characteristics, values, and professional roles of human service workers. Covers human service consumers, their problems and functioning, helping systems and strategies, environmental change processes, and legal and ethical issues.

#### HUMS A106 Introduction to Social Welfare 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Crosslisted with: SWK A106.
Course Attributes: UAA GER Social Sciences Requirement.
Analyzes social inequality and the American social welfare state. Traces historical evolution of government and non-government response to the provision of basic needs, opportunities, and rights for its citizenry, especially vulnerable populations. Investigates historical and persisting dilemmas—ethical, political, cultural, and economic—explicit and implicit, in achieving social justice. Assists in understanding of social welfare problems and solutions.

#### HUMS A121 Advocating for Victims of Domestic Violence and Sexual Assault 3 CR
Contact Hours: 3 + 0
Crosslisted with: SWK A121.
Offered only at Matanuska-Susitna College.
Focuses on developing the skills and knowledge needed to be an effective advocate for victims of domestic violence and sexual assault. Provides historical perspective, identifies physical, sexual and emotional abuse that defines battering. Explains cycle of violence, power and control issues and why women stay in abusive relationships. Identifies five stages of living without violence (denial, self-blame, help seeking, ambivalence and living violence free lives). Discusses ways of helping victims become survivors.

#### HUMS A122 Substance Abuse as a Contemporary Problem 3 CR
Contact Hours: 3 + 0
Introduction to current issues in addictions with emphasis on understanding alcohol and other drug use in historical, social, cultural, legal, and public health/policy contexts.

#### HUMS A123 Public Education and Prevention in Substance Abuse 3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: Offered Spring Semesters.
Use of community organization knowledge and skills for development of educational and preventive programs in substance abuse.

#### HUMS A124 Introduction to Physiology and Pharmacology of Substance Abuse 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111.
Introduction to basic knowledge about psychopharmacological properties and effects of psychoactive substances. Focus will be given to understanding the relationship between infectious diseases and substance use/abuse.

#### HUMS A153 Human Relations 3 CR
Contact Hours: 3 + 0
Crosslisted with: PSY A153.
A survey of human relations to include communication, problem solving, interaction, relationship, choice and change skills.

#### HUMS A155 Human Relations in the Workplace 3 CR
Contact Hours: 3 + 0
Prerequisites: (HUMS A101 or concurrent enrollment) or (HUMS A223 or concurrent enrollment).
A survey of communication, problem solving and interaction skills as applied to the world of work.

#### HUMS A185 Introduction to Field Work 1 CR
Contact Hours: 1 + 0
Prerequisites: (HUMS A101 or concurrent enrollment) or (HUMS A223 or concurrent enrollment).
Essential elements of field experience learning in a Human Service setting will be presented. Students will complete all documents necessary to enroll in HUMS A295A.

#### HUMS A223 Introduction to Paraprofessional Counseling I 3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: Offered Fall and Spring Semesters.
Focuses on systematic approach to effective helping and helping skills which fall into the following skill categories: skills for understanding, skills for comfort and crisis intervention, and skills for positive action.

#### HUMS A224 Conflict and Collaborative Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: HUMS A223 and (HUMS A324 or concurrent enrollment).
Provides a social constructionist framework for understanding interpersonal conflict. Focuses on the human and emotional aspects of conflict and includes the influence of gender and culture. Pragmatic as well as theoretical, this course presents communication and conflict resolution models to help manage and/or resolve conflict.

#### HUMS A226 Intervention Continuum in Substance Abuse Counseling 3 CR
Contact Hours: 3 + 0
Prerequisites: HUMS A122 and HUMS A223.
Presents a continuum of interventions used in substance abuse counseling, to include screening and placement criteria, motivational interviewing, aftercare and relapse planning, documentation, and confidentiality.

#### HUMS A240 Geriatric Lifestyle Assessment 3 CR
Contact Hours: 3 + 0
Prerequisites: HUMS A101 or SOC A110.
Provides a holistic overview of the assessment of the older adult. Examines tools and techniques used to assess an older person's functional, cognitive, social and psychosocial strengths and challenges. Explores strategies necessary to develop care plans for optimizing an individual's capabilities and quality of life.

#### HUMS A256 Groups and Organizations 3 CR
Contact Hours: 3 + 0
Introduces basic theories, practices and issues of relevance to working in human service agencies and develops skills to work effectively in an organizational setting. As a result of this course, the student should be more effective in observing, and political dynamics of service delivery groups and organizations.

#### HUMS A290 Selected Topics in Alcohol and Drug Counseling .5-3 CR
Contact Hours: .5-3 + 0
Grade Mode: Pass/No Pass.
Special Fees.
Provides the most current education in the area of substance abuse counseling. Specific topics will vary.
COURSES

**HUMS A295A  Human Services Practicum I**  3 CR
Contact Hours:  1 + 9
Prerequisites: (ENGL A111 or concurrent enrollment) and HUMS A101 and HUMS A223.
Registration Restrictions: GER Oral Communication
Special Fees.

- Students placed in a community Human Services agency will examine agency structure and functioning, professional relationships, and interagency networks to apply their knowledge of entry level helping skills with agency clientele while participating in a weekly class seminar to facilitate the integration of human service knowledge and theory with practical field application.

**HUMS A295B  Human Services Practicum II**  3 CR
Contact Hours:  1 + 9
Prerequisites: [(ENGL A211 or concurrent enrollment) or (ENGL A212 or concurrent enrollment) or (ENGL A214 or concurrent enrollment)] and HUMS A295A.
Special Fees.

- Emphasizes increasing responsibilities for providing direct client services. Students will access problems and plan interventions within the placement agency, while participating in a weekly class seminar structured to facilitate the integration of human service knowledge and theory with practical field application.

**HUMS A321  Diversity Issues in Human Services Practice**  3 CR
Contact Hours:  3 + 0
Prerequisites: HUMS A101 and HUMS A223 and HUMS A295A.

- Using a framework of self-awareness, this course will focus on the range of human diversity and the historical and current responses to it. It will help students incorporate the relevant needs of diverse groups in their professional practice.

**HUMS A322  Service Coordination in Human Services Practice**  3 CR
Contact Hours:  3 + 0
Prerequisites: HUMS A101 and HUMS A223 and HUMS A295A.

- Introduction to the fundamentals of service coordination across disciplines. Using an empowerment and strengths based framework, course focuses on the functions of service delivery, including assessment, planning, and implementation, utilizing the concepts of collaboration, ethics, and diversity.

**HUMS A324  Introduction to Paraprofessional Counseling II**  3 CR
Contact Hours:  3 + 0
Prerequisites: HUMS A223.
Special Fees.

- Special Note: Offered Fall and Spring Semesters.

- Focuses on 11 major paraprofessional counseling skill clusters. Course emphasis will be skill performance in a direct service context.

**HUMS A333  Alternative Dispute Resolution**  3 CR
Contact Hours:  3 + 0
Prerequisites: [HUMS A223 or PSY A223] and [HUMS A324 or PSY A324].
Special Fees.

- Special Note: Offered Fall Semesters.

- A conceptual framework in Alternative Dispute Resolution (ADR) with particular emphasis on history, communication skills, and ethics. Uses simulation exercises including negotiation strategy and tactics; mediation process and techniques; and development of arbitration case theory presentation. A comparison of the adversarial and collaborative dispute resolution systems as a theoretical backdrop.

**HUMS A334  Family Mediation**  3 CR
Contact Hours:  3 + 0
Prerequisites: HUMS A223 and HUMS A224 and HUMS A324 and HUMS A333.

- Trains students in advanced mediation skills for resolving family conflict. Different models of mediation are presented, evaluated, and practiced. Current issues in Alaska family mediation are covered.

**HUMS A350  Men and Masculinity**  3 CR
Contact Hours:  3 + 0
Prerequisites: SOC A101 or PSY A111.
Special Fees.

- Special Note: Offered Fall Semesters.

- Examines perspectives on masculinity and male sex role from historical, cultural and social-psychological perspectives with focus on males as clients in the human services setting. Examines the dynamics of male socialization and its influence on men in areas such as family and work, sexuality, and physical and mental health. Attention given to implications for prevention and human service delivery.

**HUMS A390  Selected Topics in Human Service Practice**  5-3 CR
Contact Hours:  5-3 + 0
Prerequisites: HUMS A101.

- Provides the most current education in the area of Human Service practice. Specific topics will vary.

**HUMS A412  Ethical Issues in Human Services Practice**  3 CR
Contact Hours:  3 + 0
Prerequisites: HUMS A101 and HUMS A223.
Special Fees.

- Special Note: Offered Fall Semesters.

- Overview of ethics in human service practice. Clients’ rights and confidentiality, worker responsibility for ethical behavior in the areas of confidentiality, multicultural counseling, professional responsibility, and practitioner competency.

**HUMS A414  Rural Treatment Strategies for Human Service Professionals**  3 CR
Contact Hours:  3 + 0
Prerequisites: HUMS A101.
Special Fees.

- Special Note: Offered Spring Semesters.

- Focuses upon human service work in rural settings. Development of relevant knowledge and skills in the following areas: cultural issues, the addiction process and their impact on the individual, the family, and the community. Prevention and treatment of substance abuse strategies are presented focusing upon the human service worker as a change agent.

**HUMS A416  Substance Abuse and the Older Adult**  3 CR
Contact Hours:  3 + 0
Prerequisites: HUMS A124 and HUMS A223.

- Addresses the issues related to aging adults who misuse alcohol, drugs, prescription medications, and other substances. Emphasis will be placed on identification, assessment, and intervention strategies.

**HUMS A417  Substance Abuse Counseling for Human Service Professionals**  3 CR
Contact Hours:  3 + 0
Prerequisites: HUMS A122 and HUMS A123 and HUMS A223.
Special Fees.

- Special Note: Offered Fall Semesters.

- Develops advanced counseling theory and skills specifically required by human service professionals in substance abuse treatment. Includes client assessment, diagnosis, and treatment planning. Substance abuse treatment strategies will be compared and contrasted.

**HUMS A424  Advanced Counseling for Human Service Professionals**  3 CR
Contact Hours:  3 + 0
Prerequisites: HUMS A223 and HUMS A324.
Special Fees.

- Special Note: Offered Fall Semesters.

- Comparative counseling systems and theories appropriate in the human service context are presented. Cognitive, affective, behavioral systems will be presented as approaches in a variety of human service settings including education, family and community, rehabilitation, and mental health.

**HUMS A434  Group Facilitation for Human Service Professionals**  3 CR
Contact Hours:  3 + 0
Prerequisites: HUMS A223 and HUMS A324.
Special Fees.

- Advanced facilitation skills appropriate for group work to include goal setting, recollection, task identification, and personal growth. Presents a theoretical case in both group dynamics and group leadership. Contemporary ethical and managerial issues are included.

**HUMS A461  Crisis Intervention**  3 CR
Contact Hours:  3 + 0
Prerequisites: HUMS A101 and HUMS A223 and HUMS A324.
Special Fees.

- Special Note: Offered Fall Semesters.

- A systematic and social approach to causes and treatment of human crises. Covers characteristics of crises, intervention strategies, and specific techniques for resolving various crisis situations. Students are expected to research, analyze, and compare community crisis support services.

**HUMS A495A  Human Services Practicum III**  3 CR
Contact Hours:  1 + 9
Prerequisites: HUMS A295A with minimum grade of C and HUMS A295B with minimum grade of C.

- Registration Restrictions: Admission to Human Services Bachelor Degree Program.

- Special Fees.

- Placement in an agency will provide students with advancing levels of responsibility in direct client services and/or specialized activities/projects while increasing their professional development. Weekly concurrent classroom seminars required.
HUMS A495B  Human Services Practicum IV  3 CR
Contact Hours:  1 + 9
Prerequisites: HUMS A495A with minimum grade of C.
Registration Restrictions: Declared Human Services major, admission to Bachelor of Human Services Degree, Practicum IV status approval.
Course Attributes: UAA GER Integrative Capstone.
Special Fees.
This is the Integrative Capstone course for the Bachelor's of Human Services degree. The course builds and expands upon material presented in Human Services Practica I-III using theoretical frameworks from other required Human Service coursework. Students gain increasing levels of responsibility in the provision of direct client services in community-based settings.

HUMS A610  Program Evaluation in Applied Settings  3 CR
Contact Hours:  3 + 0
Prerequisites: STAT A252.
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: B.H.S. or equivalent degree in related field and acceptance into the Graduate Certificate in Advanced Human Service Systems. Prior coursework in research methodology required.
Examines conceptual, methodological, and administrative factors related to the process of program evaluation in applied settings.

HUMS A620  Family and Community Systems  3 CR
Contact Hours:  3 + 0
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: B.H.S. or equivalent degree in related field and acceptance into the Graduate Certificate in Advanced Human Service Systems.
Examines issues related to social work in the family and community systems. The course examines family systems as social units, family and community services, and the role of social work in these systems.

HUMS A630  Leadership and Organizational Development in Human Services  3 CR
Contact Hours:  3 + 0
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: B.H.S. or equivalent degree in related field and acceptance into the Graduate Certificate in Advanced Human Service Systems.
Examines the role of professional development in human service organizations. Focuses on the development of leadership and organizational skills necessary for effective management in human service settings.

HUMS A640  Contemporary Issues in Rehabilitation  3 CR
Contact Hours:  3 + 0
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: B.H.S. or equivalent degree in related field and acceptance into the Graduate Certificate in Advanced Human Service Systems.
Examines contemporary issues in rehabilitation, including legal and ethical considerations, rehabilitation technologies, and the impact of societal trends on rehabilitation services.

HUMS A650  Introductory Geographical Analysis  3 CR
Contact Hours:  3 + 0
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: B.H.S. or equivalent degree in related field and acceptance into the Graduate Certificate in Advanced Human Service Systems.
Examines the role of geography in understanding human services and social issues.

HUMS A660  Advanced Topics in Human Development: Childhood  3 CR
Contact Hours:  3 + 0
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: B.H.S. or equivalent degree in related field and acceptance into the Graduate Certificate in Advanced Human Service Systems.
Examines the role of childhood in human development, focusing on theoretical frameworks and empirical evidence to understand the developmental stages and interventions.

HUMS A670  Professional Ethics in Human Services  3 CR
Contact Hours:  3 + 0
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: B.H.S. or equivalent degree in related field and acceptance into the Graduate Certificate in Advanced Human Service Systems.
Examines professional ethics in human services, focusing on ethical dilemmas and decision-making processes in the field.

HUMS A681  Advanced Topics in Human Development: Adolescence  3 CR
Contact Hours:  3 + 0
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: B.H.S. or equivalent degree in related field and acceptance into the Graduate Certificate in Advanced Human Service Systems.
Examines the role of adolescence in human development, focusing on theoretical frameworks and empirical evidence to understand the developmental stages and interventions.

HUMS A682  Advanced Topics in Human Development: Adulthood and Aging  3 CR
Contact Hours:  3 + 0
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: B.H.S. or equivalent degree in related field and acceptance into the Graduate Certificate in Advanced Human Service Systems.
Examines the role of adulthood and aging in human development, focusing on theoretical frameworks and empirical evidence to understand the developmental stages and interventions.

ID - INTERIOR DESIGN
Offered through the College of Arts and Sciences
Chugiak-Eagle River Campus, 694-3313
http://www.uaa.alaska.edu/aeagle

ID A141  Interior Design  3 CR
Contact Hours:  3 + 0
Beginning interior design survey course. Design theory as related to planning and decorating homes. Particular emphasis on developing individual styles, color schemes, floor, wall and window coverings, basic lighting, and interior furnishings.

INTL - INTERNATIONAL STUDIES
Offered through the College of Arts and Sciences
Administration/Humanities Building (ADM), Room 262, 786-1509
www.uaa.alaska.edu/intl

INTL A101  Local Places/Global Regions: An Introduction to Geography  3 CR
Contact Hours:  3 + 0
Prerequisites: GEOG A101 or INTL A101.
Course Attributes: UAA GER Social Sciences Requirement.
An interdisciplinary examination and analysis of Canada. Themes include the development of Canadian nationalism and national identity, problems of official bilingualism, Quebec separatism, multiculturalism and Canadian First Nations. American political and cultural relations will be explored as issues framing the future of Canada and its international role in the 21st century.

INTL A315  Canada: Nation and Identity  3 CR
Contact Hours:  3 + 0
Prerequisites: GEOG A101 or INTL A101 and HIST A131.
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and junior standing.
Course Attributes: UAA GER Integrative Capstone.
An interdisciplinary examination and analysis of Canada. Themes include the development of Canadian nationalism and national identity, problems of official bilingualism, Quebec separatism, multiculturalism and Canadian First Nations. American political and cultural relations will be explored as issues framing the future of Canada and its international role in the 21st century.

INTL A325  Northeast Asia in 21st Century  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Junior standing. Completion of GER Tier 1 (basic college-level skills) courses. Six credits of Tier 2 GEOG, HIST, or PS courses. Crosslisted with: HIST A325 and PS A325.
Course Attributes: UAA GER Integrative Capstone.
An interdisciplinary examination and analysis of Northeast Asia covering China, the Koreas, and Japan, designed to provide students with the means to understand how the societies of this region have developed separate and distinct identities despite their common cultural and philosophical roots.
COURSE DESCRIPTIONS

JPC A101  Media and Society  3 CR
Contact Hours:  3 + 0
Course Attributes: UAA GER Social Sciences Requirement.
Describes the evolution of newspapers, magazines, photography, film, radio, television, Internet, and development of telecommunications and information technologies in the last 100 years. Emphasis on social, cultural, political, and economic affects of media.

JPC A201  Reporting and Writing News  3 CR
Contact Hours:  2 + 2
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C.
Registration Restrictions: Keyboarding ability.
Examines principles and practices of reporting and writing news in the 21st century. Examines development of news form and structure. Foundation course concentrates on basics of reporting processes and news writing. Writing under deadline using Associated Press Style Book and Briefing on Media Law and computers.

JPC A202  First Amendment and Media Ethics  3 CR
Contact Hours:  3 + 0
Prerequisites: [ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C].
Examines the history of First Amendment and implications for media ethics. Foundation course emphasizes principles and practices of First Amendment law and media ethics.

JPC A203  Writing and Producing for Electronic Media  3 CR
Contact Hours:  2 + 2
Prerequisites: JPC A201 and JPC A202.
Examines the principles and practices of writing and producing for radio, television, and Web. Foundation course emphasizes news writing, commercial, public service, and narrative copy, as well as visual and aural elements in electronic media.

JPC A204  Information Gathering  3 CR
Contact Hours:  2 + 2
Prerequisites: JPC A201 and JPC A202.
Examines information gathering process used by journalists and other mass communicators. Foundation course emphasizes principles and practices of interviewing, research of government documents, computerized databases, and business documents for news stories and research for media-related decision making.

JPC A211  Visual Literacy  3 CR
Contact Hours:  2 + 2
Prerequisites: JPC A101.
Examines visual forms of communication. Emphasis on the use of images in newspapers, magazines, film, television, photography, informational graphics, interactive multimedia, digital games, and Web-based technologies and the role of visual media in cultural processes and aesthetic appreciation.

JPC A312  History of Alaska Media  3 CR
Contact Hours:  3 + 0
Examines the history and development of Alaska media. Emphasis on how Alaska communications media have shaped the development of Alaska from “Seward’s Folly” through statehood to analysis of coverage of current political and social controversies.

JPC A313  Movies and the First Amendment  3 CR
Contact Hours:  3 + 0
Analyzes how First Amendment issues are presented in film and television as popular culture. Analysis on analysis of First Amendment and media ethics issues as presented in films from His Girl Friday (1932), All the President’s Men (1976), The Paper (1996) and other media-related movies.

JPC A314  Documentary Filmmakers and Filmmaking  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Junior status.
Analyzes cinematography and filmmaking techniques of significant American and international documentary filmmakers.

JPC A320  Copy Editing  3 CR
Contact Hours:  2 + 2
Prerequisites: JPC A201.
Examines copy editing concepts and terminology. Emphasis on principles and practices of copy editing as applied to print, broadcast, and online journalism. Copy editing against deadlines.

JPC A321  Digital Imaging  3 CR
Contact Hours:  2 + 2
Examines the creation and use of electronically generated images to communicate. Emphasis on visual aesthetics, composition, image layering, photo retouching, spatial relationships, compression techniques, digital painting, editing, color adjustment, filtering, image capture and file formatting.

JPC A322  Radio News Reporting  3 CR
Contact Hours:  2 + 2
Prerequisites: JPC A204.
Examines professional radio news reporting, story research, writing, announcing, sound editing and radio news production. Students produce radio news stories for student and professional media.

JPC A323  Television News Reporting  3 CR
Contact Hours:  2 + 2
Prerequisites: JPC A204.
Examines the history and development of television news reporting and the television industry. Emphasis on principles and practices of television news reporting, story research, writing, shooting, and editing. Students produce television news stories for Webcast and cable television.

JPC A324  Web Design  3 CR
Contact Hours:  2 + 2
Prerequisites: JPC A213.
Analyzes the development of the World Wide Web as a communications medium. Emphasis on professional principles and practices of Web design, evolving technologies, and the convergence of digital images, graphics, text, voice, and music to enhance the interactivity between user and the system.

JPC A325  Magazine Writing  3 CR
Contact Hours:  2 + 2
Prerequisites: JPC A204.
Analyzes writing strategies and techniques for contemporary magazines. Emphasis on professional principles and practices of story development, magazine story research and writing, copy editing, use of images and cutlines, and placement of stories in contemporary magazine markets. Students produce stories for on-campus and off-campus publications.
JPC A362 Principles of Strategic Communications 3 CR  
Contact Hours: 3 + 0  
Prerequisites: JPC A204.  
Analyzes theories of persuasion and the evolution of contemporary public relations, advertising, and marketing industries. Emphasis on professional principles and practices of persuasive communications strategies and techniques for mass audiences using contemporary media.

JPC A363 Research Methods for Strategic Communications 3 CR  
Contact Hours: 3 + 0  
Prerequisites: JPC A204.  
Analyzes empirical research methods for strategic communications. Emphasis on research objectives, quantitative and qualitative methods, sample selection, questionnaire design, analysis procedures, reporting and presenting results. Legal and ethical issues are examined.

JPC A366 Planning and Writing for Strategic Communications 3 CR  
Contact Hours: 3 + 0  
Prerequisites: JPC A363.  
Analyzes strategic planning processes and techniques of creative and persuasive message preparation for strategic communication. Emphasis on principles and practices of planning and writing for print and electronic media for advertising, public relations, sales promotion, and marketing.

JPC A368 Commercial Photography 3 CR  
Contact Hours: 3 + 0  
Prerequisites: JPC A213 and JPC A342.  
Analyzes contemporary commercial photography. Emphasis on use of staging, lighting, and photographic techniques for advertising, public relations, and integrated marketing for commercial clients.

JPC A369 Design for Publications 3 CR  
Contact Hours: 2 + 2  
Prerequisites: JPC A213 and JPC A363.  
Analyzes contemporary graphics technology for use in strategic communications. Emphasis on writing and visual communication for advertising, public relations, sales promotion and marketing, including design and layout issues related to annual reports and other multiple-page publications.

JPC A382 Digital Audio Production 3 CR  
Contact Hours: 2 + 2  
Prerequisites: JPC A203 and JPC A204.  
Analyzes digital audio production. Emphasis on professional principles and practices of signal processing, multi-track mixing, layering, synchronization and digital editing techniques. Students produce digital audio programs for various markets.

JPC A383 TV Studio Production 3 CR  
Contact Hours: 2 + 2  
Prerequisites: JPC A204.  
Analyzes television studio production. Emphasis on professional principles and practices of set-up and operation of studio production equipment, production fundamentals, the team process of television program production, and the aesthetics and use of studio television for communication.

JPC A384 Digital Video Production 3 CR  
Contact Hours: 2 + 2  
Prerequisites: JPC A343 or JPC A344.  
Analyzes digital video production. Emphasis on professional principles and practices of camera, lighting, sound, and editing of digital video for various distribution systems and audiences.

JPC A385 Scriptwriting for Film and Television 3 CR  
Contact Hours: 2 + 2  
Prerequisites: JPC A204.  
Analyzes scriptwriting strategies and techniques for film and television. Emphasis on professional principles and practices of story development, scriptwriting form, storyboard, and marketing of scripts for film and television projects.

JPC A403 Communications and Media Research 3 CR  
Contact Hours: 3 + 0  
Prerequisites: JPC A204 and STAT A252.  
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and junior standing.  
Course Attributes: UAA GER Integrative Capstone.  
Evaluates communications and media research. Emphasizes methods and practices of empirical research in communications and media, including concept framing, empirical methods, data generation, data analysis, peer review, and results presentation and publication. Students develop and produce empirical primary research papers using quantitative and qualitative research methods.

JPC A404 Global Media and Communications Systems 3 CR  
Contact Hours: 3 + 0  
Prerequisites: JPC A204.  
Evaluates the history and development of global media and communications systems. Emphasis on the technological, social, political, and economic forces that impact the practice of journalism, public communications, and information technology throughout the world.

JPC A405 Communications and Media Theories 3 CR  
Contact Hours: 3 + 0  
Prerequisites: JPC A204.  
Emphasis on historical and contemporary theories of public communications, public opinion, audience, evolving technologies, and social influences of communications and media.

JPC A413 Communications Law 3 CR  
Contact Hours: 3 + 0  
Crosslisted with: JUST A413.  
Legal rights, privileges, and regulations of press, radio, television, and films; libel, contempt, copyright, rights of privacy; and decisions of regulatory bodies.

JPC A442 Web Journalism 3 CR  
Contact Hours: 2 + 2  
Prerequisites: JPC A204 and JPC A345.  
Evaluates development of Web journalism. Applies ethical principles and professional practices of online reporting using text, images, graphics, video, music, and video to communicate with Web news users.

JPC A443 Advanced Reporting 3 CR  
Contact Hours: 2 + 2  
Prerequisites: JPC A204.  
Registration Restrictions: JPC junior or senior status.  
Applies ethical principles and advanced professional principles and practices of in-depth, investigative, and enterprise reporting to contemporary topics for print, radio, television, and World Wide Web.

JPC A444 Specialty Reporting 3 CR  
Contact Hours: 3 + 0  
Prerequisites: JPC A204.  
Special Note: May be taken twice for credit with permission of Department Chair.  
Evaluates specialty reporting such as sports, environmental, medical and health, business, or transportation reporting. Applies ethical principles and advanced professional principles and practices of reporting to special topics. Students report for print, radio, television, or Web.

JPC A445 Design for Print I 3 CR  
Contact Hours: 2 + 2  
Prerequisites: JPC A204 and JPC A213.  
Evaluates the use of design for magazine production. Emphasis on magazine writing, design, layout, typography, production, electronic distribution, and prepress. Class will produce True North, a general interest color magazine.

JPC A446 Design for Print II 3 CR  
Contact Hours: 2 + 2  
Prerequisites: JPC A203 or JPC A204 and JPC A213.  
Evaluates the use of design for magazine production. Emphasis on magazine writing, design, layout, typography, production, electronic distribution and prepress. Class will produce Alaska Media Review, a professional interest magazine.

JPC A462 Corporate Communications 3 CR  
Contact Hours: 3 + 0  
Prerequisites: JPC A363.  
Evaluates corporate communication. Applies professional principles and practices of strategic communications, internal communications, message design, advertising, public relations, integrated marketing communications, and new communication technologies in corporations.

JPC A463 Crisis Communications 3 CR  
Contact Hours: 3 + 0  
Prerequisites: JPC A363.  
Evaluates crisis communications. Applies ethical principles and professional practices of crisis communications planning, development, and execution during a crisis. Develops a crisis communications plan for organizations for communicating with internal and external audiences during a crisis.

JPC A464 Development Communications 3 CR  
Contact Hours: 3 + 0  
Prerequisites: JPC A363.  
Evaluates development communications. Applies ethical principles and professional practices of planning and execution of development communications programs, including fund-raising for businesses and non-profit organizations.
JPC A465  Strategic Communications Campaigns I  3 CR  
Contact Hours:  3 + 0  
Prerequisites: JPC A363.  
Evaluates strategic communications campaigns. Part I of a two-semester sequence. Applies ethical principles and professional principles and practices of qualitative and quantitative research, planning, strategic analysis, and evaluations to a strategic communications campaign. Students develop a strategic communications campaign for business or nonprofit organization.

JPC A466  Strategic Communications Campaigns II  3 CR  
Contact Hours:  3 + 0  
Prerequisites: JPC A465.  
Evaluates strategic communications campaigns. Part II of a two-semester sequence. Applies ethical principles and research methods, planning, production of campaign materials, working with clients, production houses, and “pitch” presentations. Students develop a strategic communications campaign for business or nonprofit organization.

JPC A482  TV Post-Production  3 CR  
Contact Hours:  2 + 2  
Prerequisites: JPC A382 or JPC A383.  
Evaluates television segments and programs in non-studio locations. Applies ethical principles and professional principles and practices of idea development, script writing, storyboarding, planning, use of digital video cameras, lighting, sound, and post-production editing. Students produce commercials, public service spots, and promotional videos for multiple formats and audiences.

JPC A483  Broadcast Graphics  3 CR  
Contact Hours:  2 + 2  
Prerequisites: JPC A382 or JPC A383.  
Evaluates design elements, software, and hardware used in professional broadcast graphics. Applies ethical practices and professional principles and practices of design and creation of a variety of broadcast content, including titles, IDs, graphics for sports and news, live video, and text animation.

JPC A484  Documentary Film Production I  3 CR  
Contact Hours:  3 + 0  
Prerequisites: JPC A314 and JPC A482.  
Evaluates history and development of documentary film. Part I of a two-semester sequence. Applies ethical principles and professional principles and practices of documentary film production, including idea development, research, script treatment, production logistics, and budget.

JPC A485  Documentary Film Production II  3 CR  
Contact Hours:  3 + 0  
Prerequisites: JPC A484.  
Evaluates history and development of documentary film. Part II of a two-semester sequence. Applies ethical principles and professional principles of documentary production, including field production, editing, post-production, and marketing to various distribution outlets, including film festivals.

JPC A486  Independent Film Production I  3 CR  
Contact Hours:  3 + 0  
Prerequisites: JPC A482.  
Evaluates history and development of independent film. Part I of a two-semester sequence. Applies professional principles and practices of digital film idea development, research, script treatment, logistics, and budget for independent short film production.

JPC A487  Independent Film Production II  3 CR  
Contact Hours:  3 + 0  
Prerequisites: JPC A486.  
Evaluates history and development of independent film. Part II of a two-semester sequence. Applies professional principles and practices of independent film production, including studio and field production, editing, post-production, and marketing to various distribution outlets, including film festivals.

JPC A490  Selected Topics in Journalism and Public Communications  3 CR  
Contact Hours:  3 + 0  
Prerequisites: JPC A204.  
Registration Restrictions: Junior or senior standing. Special Note: May be taken twice for credit with a change of subtitle. Analyze, develop, and apply professional principles and practices to changing landscape of contemporary journalism and media.

JPC A492  JPC Senior Seminar  3 CR  
Contact Hours:  3 + 0  
Prerequisites: JPC A204.  
Registration Restrictions: Junior or senior status; GPA of 3.5 or better in JPC courses.  
Seminar discussion and advanced research in topics current to media industry. Students’ portfolio work will be reviewed by faculty committee.

JPC A495  JPC Practica and Internships  1-6 CR  
Contact Hours:  0 + 3-18  
Prerequisites: JPC A204.  
Registration Restrictions: Junior or senior status; 3.0 GPA in JPC courses; and permission of JPC Media Advisor or JPC Director of Internships. Special Note: May be repeated for up to 6 credits. Supervised on-campus and off-campus experience at media organization. JPC practica are supervised media and communications experiences at on-campus media. JPC internships are supervised media and communications experiences at off-campus media. Students perform significant media work under faculty media advisor and on-staff supervision. Students develop portfolios for review.

JPN - JAPANESE

Offered through the College of Arts and Sciences  
Administration/Humanities Building (ADM) Suite 287, 786-4030  
www.uaa.alaska.edu/languages

JPN A101  First Year Japanese I  4 CR  
Contact Hours:  4 + 0  
Course Attributes: UAA GER Humanities Requirement. Special Fees.  
Introductory course for students with no previous knowledge of the Japanese language. Develops listening, speaking, reading, and writing skills in Japanese for effective communication at the elementary level. Students gain understanding of basic cross-cultural perspectives. Course conducted in Japanese.

JPN A101E  Elementary Japanese I  3 CR  
Contact Hours:  3 + 0  
Course Attributes: UAA GER Humanities Requirement. Offered only at extended colleges. Special Fees.  
Introduction, practice, and application of the basic spoken Japanese pronunciation, intonation, grammar and oral composition.

JPN A102  First Year Japanese II  4 CR  
Contact Hours:  4 + 0  
Prerequisites: JPN A101.  
Course Attributes: UAA GER Humanities Requirement. Special Fees.  
Continuation of introductory course. Further develops elementary listening, speaking, reading, and writing skills in Japanese for effective communication. Enhances appreciation of cross-cultural perspectives. Course conducted in Japanese.

JPN A201  Second Year Japanese I  4 CR  
Contact Hours:  4 + 0  
Prerequisites: JPN A102.  
Course Attributes: UAA GER Humanities Requirement. Special Fees.  
Intermediate course for students with basic knowledge of Japanese. Enhances listening, speaking, reading, and writing skills for effective communication at the second year level. Students critically examine diverse cultural perspectives. Course conducted in Japanese.

JPN A202  Second Year Japanese II  4 CR  
Contact Hours:  4 + 0  
Prerequisites: JPN A201.  
Course Attributes: UAA GER Humanities Requirement. Special Fees.  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Special Notes</th>
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<td>JPN A290</td>
<td>Selected Topics in Japanese Culture</td>
<td>1 CR</td>
<td>0 + 2</td>
<td>JPN A101</td>
<td>Special Fees</td>
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<td>JPN A301</td>
<td>Advanced Japanese I</td>
<td>4 CR</td>
<td>4 + 0</td>
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<tr>
<td>JPN A302</td>
<td>Advanced Japanese II</td>
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<td>Special Fees</td>
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<td>JPN A310</td>
<td>Selected Topics in Advanced Japanese</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>JPN A350</td>
<td>Business Japanese</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JPN A202</td>
<td>Special Fees</td>
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<tr>
<td>JUST A201</td>
<td>Justice Data Analysis</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JUST A110</td>
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<tr>
<td>JUST A203</td>
<td>Juvenile Delinquency</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>SOC A101</td>
<td>Crosslisted with: SOC A203</td>
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<tr>
<td>JUST A205</td>
<td>Principles of Corrections</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JUST A110 or JUST A251</td>
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<tr>
<td>JUST A211</td>
<td>Business Law I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JUST A110</td>
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<tr>
<td>JUST A221</td>
<td>Justice Organization and Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JUST A110</td>
<td>Special Note: Offered Fall and Spring Semesters.</td>
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<td>JUST A241</td>
<td>Business Law II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BA A241</td>
<td>Crosslisted with: BA A241</td>
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<td>JUST A242</td>
<td>Business Law II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JUST A241 or BA A241</td>
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<td>JUST A250</td>
<td>Development of Law</td>
<td>3 CR</td>
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<td>JUST A251</td>
<td>Crime and Delinquency</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>JUST A255</td>
<td>Criminal Investigation</td>
<td>3 CR</td>
<td>3 + 0</td>
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### COURSE DESCRIPTIONS

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<td>JUST A310</td>
<td>Introduction to Forensic Science</td>
<td>3 CR</td>
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<td>JUST A320</td>
<td>Crime Prevention</td>
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<td>JUST A330</td>
<td>Justice and Society</td>
<td>3 CR</td>
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<td>JUST A340</td>
<td>Family Law</td>
<td>3 CR</td>
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<td>JUST A343</td>
<td>Constitutional Law</td>
<td>3 CR</td>
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<td>JUST A344</td>
<td>Courts and Civil Liberties</td>
<td>3 CR</td>
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<td>JUST A350</td>
<td>Contemporary Correctional Issues</td>
<td>3 CR</td>
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<tr>
<td>JUST A352</td>
<td>Substantive Criminal Law</td>
<td>3 CR</td>
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<td>JUST A354</td>
<td>Criminal Procedure</td>
<td>3 CR</td>
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<td>JUST A360</td>
<td>Justice Processes</td>
<td>3 CR</td>
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<td>JUST A365</td>
<td>Comparative Justice Systems</td>
<td>3 CR</td>
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<td>JUST A385</td>
<td>Urban Police Problems</td>
<td>3 CR</td>
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<tr>
<td>JUST A398</td>
<td>Individual Research</td>
<td>1-4 CR</td>
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<td>JUST A400</td>
<td>Advanced Research Methods</td>
<td>3 CR</td>
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<tr>
<td>JUST A401</td>
<td>Inferential Data Analysis in Justice</td>
<td>3 CR</td>
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<tr>
<td>JUST A410</td>
<td>Cinematic Images of Justice</td>
<td>3 CR</td>
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**Contact Hours:** 3 + 0

**Prerequisites:**
- JUST A110 or PARL A101.
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**Registration Restrictions:**
- Junior standing.
- Junior standing.
- Junior standing, 6 credits writing courses, faculty permission.
- Junior standing.
- Junior standing, 6 credits writing courses, faculty permission.
- Junior standing.
- Junior standing.
- Junior standing.

**Special Notes:**
- Attendance on field trips is required.
- Attendance on field trips is required.
- Offered Fall Semesters.
- Offered Spring Semesters.

**Course Attributes:**
- UAA GER Social Sciences Requirement.

**Course Focus:**
- Provides an overview of forensic science and its relationship within the justice system. Focuses on the various areas of criminalistics, which typically involve the analysis done in government crime labs on physical evidence gathered in the course of a criminal investigation.
- Examination of crime prevention strategies and concepts not usually found in law enforcement efforts. The legal, moral and ethical considerations and problems of human and environmental manipulation are explored in an interdisciplinary context. Emphasizes new and innovative approaches to preventing criminal behavior.
- A survey course designed to acquaint the student with policy formulation problems related to both traditional and modern concepts of correctional programming. The roles of the executive, legislative, and judicial branches of government in determining correctional policy will be examined. Policy issues in both pre-trial and post-conviction facilities will be covered and the trend toward privatization of correctional facilities and programs will be discussed.
- Examines the relationship between alcohol use and a variety of criminal behaviors including assault, homicide, and drunken driving. Special consideration is given to legislative and environmental approaches for preventing the negative consequences of alcohol use.
- Explorations of a variety of contemporary problems and issues related to the provision of urban police services. Issues considered may include alternatives to arrest, patrol methods, police officer-citizen relations, job stress, and use of deadly force.
JUST A413  Communications Law  3 CR  
Contact Hours: 3 + 0  
Crosslisted with: JPC A413.  
Special Fees.  
Legal rights, privileges, and regulations of press, radio, television, and films, libel, contempt, copyright, rights of privacy, and decisions of regulatory bodies.

JUST A440  Police Administration  3 CR  
Contact Hours: 3 + 0  
Prerequisites: JUST A110 and JUST A221.  
Focuses on critical issues and situations faced by police executives. Among the areas studied are decision making, organizational strategies and services mixes, citizen complaint systems, change strategies and models, information systems, personnel management, financial administration and productivity measurement.

JUST A444  Terrorism and the Rule of Law  3 CR  
Contact Hours: 3 + 0  
Prerequisites: JUST A110 and JUST A250.  
Selected case studies in modern terrorism are examined. Focuses on the relationship between civil liberties and laws and social policies intended to address terrorism.

JUST A445  Probation, Parole and Community Corrections  3 CR  
Contact Hours: 3 + 0  
Prerequisites: JUST A210.  
Study of community-based alternatives to incarceration for adult and juvenile offenders. The purposes, operations and organization of probation and parole agencies and the decision making responsibilities of probation and parole officers will be examined. Private and public community residential programs will be analyzed.

JUST A451  Research and Policymaking  4 CR  
Contact Hours: 3 + 3  
Prerequisites: JUST A110 and STAT A252.  
Registration Restrictions: Upper-class standing.  
Special Note: Laboratory is required. Offered Fall and Spring Semesters.  
An overview of social research methods and procedures as related to justice policy development, implementation and assessment. Students are exposed to the policymaking process, qualitative and quantitative information producing tools, research utilization strategies and research proposal writing.

JUST A455  Rural Justice  3 CR  
Contact Hours: 3 + 0  
Prerequisites: JUST A110.  
Multidisciplinary study of ‘bush justice’ in rural Alaska and in other Arctic settings including Greenland and Canada. A study of the interplay of law ways of Alaska Natives and early white populations with the developing military, territorial and state systems. Special focus on small village justice systems, traditional and modern; roles of police, councils, judges and others in the system, criminal and civil law; and alternatives to urban models proposed or tested in rural settings.

JUST A460  Justice in Crisis  3 CR  
Contact Hours: 3 + 0  
Prerequisites: JUST A200 and JUST A201 and JUST A221 and JUST A250 and JUST A251 and JUST A330 and JUST A360.  
Major Restriction: Must be Justice major.  
Class Standing Restriction: Must be Senior.  
Registration Restrictions: Completion of all GER Tier 1 (Basic college-level skills) courses, Justice major and senior standing.  
Course Attributes: UAA GER Integrative Capstone.  
Critically examines various perspectives on justice and the ability of a society to maintain the ideal of justice. Compares conditions in different countries and investigates different social and historical conditions when justice was challenged. Analyzes the influence of culture, race/ethnicity and socioeconomic inequality on the operation of the American justice system.

JUST A475  Juvenile Procedure  3 CR  
Contact Hours: 3 + 0  
Prerequisites: JUST A203 or SOC A203.  
A practical clinical course providing comprehensive coverage of the Alaska children’s code and juvenile law procedures.

JUST A480  Correctional Systems Management  3 CR  
Contact Hours: 3 + 0  
Prerequisites: JUST A110 and JUST A251.  
Focuses on the management of correctional rehabilitation. Probation, imprisonment, parole and community-based corrections concepts are explored in-depth. Legal aspects of correctional administration, prisoner rights, and judicial involvement in penal systems. Correctional decision making processes, participatory management and citizen involvement are assessed. International comparisons of correctional systems are utilized to explore organizational and management options.

JUST A488  Research Practicum  1-6 CR  
Contact Hours: 0 + 3-18  
Prerequisites: JUST A200 and JUST A201.  
Registration Restrictions: Faculty permission required.  
The application of research skills to the study of a problem in the justice field. Involves field research and related independent study.

JUST A490  Contemporary Justice Issues  1-6 CR  
Contact Hours: 1-6 + 0  
Prerequisites: JUST A110.  
Registration Restrictions: Junior standing.  
Special Note: May be repeated once for credit with a change in subtitle.  
A variable topics course which addresses current issues. Topics of national interest as well as those peculiar to Alaska will be included.

JUST A495  Internship  1-6 CR  
Contact Hours: 0 + 5-3  
Registration Restrictions: Approval by internship coordinator.  
Grade Mode: Pass/No Pass.  
Special Note: Offered Fall and Spring Semesters.  
Specially arranged field experiences for advanced Justice majors and Paralegal Certificate students. Designed to expand knowledge and skills through supervised placements in justice, law, and governmental settings.

JUST A498  Individual Research  1-4 CR  
Contact Hours: 1-4 + 3-12  
Registration Restrictions: Research methods course, faculty permission.  
Participation in Justice Center research projects current literature, collect data, formulate and test hypotheses, analyze data, and complete a final research paper.

JUST A625  Seminar in Criminal Violation  3 CR  
Contact Hours: 3 + 0  
Special Note: Offered Alternate Fall Semesters.  
An advanced criminology seminar which will explore the application of various theories of crime causation to specific kinds of criminal violation. Students will use criminological theory in an effort to explain different types of criminal behavior and to assess both methods of prevention and potential treatment of the violator. Topics will include: crimes of violence, crimes against the public order, organized crime, white collar crime, etc.

JUST A630  Justice Administrative Theory and Practice  3 CR  
Contact Hours: 3 + 0  
Special Note: Offered Alternate Spring Semesters.  
An advanced seminar to study policy development and the application of theory and research in the administration of justice organizations. Theories, practices, innovations and administrative strategies will be explored.

JUST A640  Corrections Theory and Research  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Special Note: Offered as Demand Warrants.  
Theoretical foundation of correctional practice explored through reading of classic texts. Development and testing of hypotheses on rehabilitation, retribution, and incapacitation.

JUST A650  Policing Theory and Research  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Special Note: Offered Alternate Spring Semesters.  
Social science research on policing explored through readings on police use of force, domestic violence, and community policing. Development of proposals for empirical tests of hypotheses derived from the literature.

JUST A670  Administrative Law  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Special Note: Offered Spring Semesters.  
Legal guidelines for adoption, enforcement, and adjudication of violations of agency regulations at federal, state, and local levels as exercised by public sector management. Legislative, executive, and judicial controls on agency action. Research project required.
KOR - KOREAN
Offered through the College of Arts and Sciences
Administration/Humanities Building (ADM), Suite 287, 786-4030
www.uaa.alaska.edu/linguistics

KOR A101 First Year Korean I 4 CR
Contact Hours: 4 + 0
Special Fees.
Introductory course for students with no previous knowledge of the Korean language. Develops listening, speaking, reading, and writing skills in Korean for effective communication at the elementary level. Introduces basic cross-cultural perspectives. Course conducted in Korean.

LAT - LATIN
Offered through the College of Arts and Sciences
Administration/Humanities Building (ADM), Suite 287, 786-4030
www.uaa.alaska.edu/linguistics

LAT A101 Elementary Latin I 3 CR
Contact Hours: 3 + 0
Special Fees.
Introductory course for students with no previous knowledge of the Classical Latin language. Develops reading and writing skills in Latin for effective communication at the elementary level. Introduces historical perspectives. Course conducted in English.

LAT A102 Elementary Latin II 3 CR
Contact Hours: 3 + 0
Prerequisites: LAT A101.
Special Fees.
Continuation of LAT A101. Further develops elementary reading and writing skills in Classical Latin for effective communication. Enhances appreciation of historical perspectives. Course conducted in English.

LGOP - LOGISTICS OPERATIONS
Offered through the College of Business & Public Policy
Edward & Cathryn Rasmuson Hall (RH), Room 309, 786-4100
www.cbpp.uaa.alaska.edu/logistics.asp

LOG A101 Logistics, Information Systems and Customer Service 3 CR
Contact Hours: 3 + 0
Introduces the principles and practices of logistics and supply chain operations and how they are integrated into total supply chain management. Discusses the logic of integration concerning how organizations gain a sustainable competitive advantage by implementing total supply chain management. Outlines the role of information technology. Examines customer service from the perspectives of both the organization and the individual.

LOG A120 Warehouse and Inventory Control Operations 3 CR
Contact Hours: 3 + 0
An introduction to the fundamentals of warehouse management and inventory control operations and how they fit into logistics and the supply chain. The physical aspects of warehousing, layout, coding, safety, materials handling, inventory, and their implications for an organization are explored.

LOG A125 Transportation Services 3 CR
Contact Hours: 3 + 0
Introduces transportation regulations and policies. Focuses on the roles and services provided by carriers in the rail, road, sea, air, pipeline, and water industries at the state, national, and global levels.

LOG A160 Purchasing and Supply Management 3 CR
Contact Hours: 3 + 0
Introduces the role of purchasing and supply management in the success of the organization. Discusses modern purchasing and supply management, through clearly defined policy, procedures and processes. Facilitates organizational success by ensuring the organization gets the services and materials needed from their suppliers.

LOG A235 Transport Operations Management 3 CR
Contact Hours: 3 + 0
Introduces the role and importance of efficient and effective transportation operations of shippers and carriers. Focuses on costing and pricing, carrier and shipper strategies, and information technology.

LING - LINGUISTICS
Offered through the College of Arts and Sciences
Professional Studies Building (PSB), Room 212, 786-4355
http://english.uaa.alaska.edu

LING A101 The Nature of Language 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Humanities Requirement.
A beginning course in the study of language. Introduction to systematic analysis of human language and description of its grammatical structure, distribution, diversity, and historical development.

LING A201 Intermediate Grammar 3 CR
Contact Hours: 3 + 0
An intermediate course in the descriptive analysis of syntax and related aspects of word-formation. Practice in traditional and contemporary methods of syntactic analysis, sentence structure and diagramming, in English.

LOG - LOGISTICS
Offered through the College of Business & Public Policy
Edward & Cathryn Rasmuson Hall (RH), Room 309, 786-4100
www.cbpp.uaa.alaska.edu/logistics.asp

LOG A378 Foundations of Logistics and Supply Chain Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: College of Business and Public Policy majors must be admitted to upper-division standing.
Introduction to managerial theory and practice as applied to logistics and supply chain management. Management of procurement, storage and the movement of goods and material are discussed. The concept of total logistics cost is evaluated.

LOG A379 Transportation Management 3 CR
Contact Hours: 3 + 0
Prerequisites: LOG A378 with minimum grade of C.
Registration Restrictions: College of Business and Public Policy majors must be admitted to upper-division standing.
Study of the structure and operating characteristics of the major modes of transportation. Managerial techniques are applied to transportation decision-making. Procurement and choice of for-hire transportation services are discussed within supply chain management.

LOG A415 Purchasing Management 3 CR
Contact Hours: 3 + 0
Prerequisites: LOG A378 with minimum grade of C.
Registration Restrictions: College of Business and Public Policy majors must be admitted to upper-division standing.
Study of purchasing activities and cost management techniques. Discusses reverse auctions, contracting, and ethics in purchasing.

LOG A416 International Logistics and Transportation Management 3 CR
Contact Hours: 3 + 0
Prerequisites: LOG A378 with minimum grade of C and LOG A379 with minimum grade of C.
Registration Restrictions: College of Business and Public Policy majors must be admitted to the upper-division standing.
Study of the logistics activities of international firms. Analyzes international trade and transportation. Issues of international business structures, customs documentation, currency exchange rates, and international marketing are discussed.
### COURSE DESCRIPTIONS

**LOG A417 Materials Management** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: LOG A378 with minimum grade of C.  
Registration Restrictions: College of Business and Public Policy majors must be admitted to the upper-division standing.  
Study of the management of material flows from the supplier to the end customer; from the raw materials dug out of the ground to retail items purchased by customers. Operation and cost analyses are discussed and applied to materials management.

**LOG A495 Internship in Global Logistics and Supply Chain Management** 3 CR  
Contact Hours: 0 + 9  
Prerequisites: LOG A378 with minimum grade of B.  
Registration Restrictions: College of Business and Public Policy majors must be admitted to upper-division standing, GPA of 3.0 in major, GPA of 2.75 overall, and permission of major advisor.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Work experience in an approved position with supervision and training in various phases of global logistics and/or supply chain management within a business organization.

**LOG A601 Supply Chain Management Systems** 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Acceptance into Graduate Certificate Program or department approval.  
Special Fees.  
Examines the changes in supply chain management systems and networks in today's complex, global market. Focuses on the interaction of system demands for purchasing and materials management; the interaction of ethical, contractual, and legal elements; the impact of strategic decisions; and the impact of supply network functional activities.

**LOG A602 Logistics** 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Acceptance into Graduate Certificate Program or department approval.  
Special Fees.  
Examines the principles and practices of global supply chain and logistics management. Focuses on logistics integration and how global organizations can gain a sustainable competitive advantage by implementing programs of total logistics management into their organizations.

**LOG A603 Measurement in Supply Chains** 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Acceptance into Graduate Certificate Program or department approval.  
Special Fees.  
Examines the metrics and tools needed to create value by logistics within the global supply chain. Focuses on complexity factors and their impact on the creation of this value. Conducts performance valuation analyses using systems analysis, assumption-based planning, project management techniques, and activity-based cost accounting.

**LOG A604 Radio Frequency Identification** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: LOG A601 and LOG A602 and LOG A603.  
Registration Restrictions: Acceptance into Graduate Certificate Program or department approval.  
Special Fees.  
Examines the principles of Radio Frequency Identification (RFID) and how it is revolutionizing supply chain management systems and logistics systems. Focuses on how to design, develop, and integrate logistics information systems to appraise the value of experimental RFID technology compared to more traditional technologies.

**LOG A605 Transportation Systems Management** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: LOG A601 and LOG A602 and LOG A603.  
Registration Restrictions: Acceptance into Graduate Certificate Program or department approval.  
Special Fees.  
Examines the management of passenger transportation systems in the travel industry. Focuses on different forms of transportation as they relate to travel industry management and policy.

**LOG A606 Lean Operations** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: LOG A601 and LOG A602 and LOG A603.  
Registration Restrictions: Acceptance into Graduate Certificate Program or department approval.  
Special Fees.  
Examines the concepts of lean operations and shows through examples, case studies, simulations, and hands-on projects how organizations can reduce the wastes that adversely impact profitability and performance. Focuses on value-stream mapping, synchronized flow, pull systems, and any current reengineering concepts that may be appropriate, such as kanban systems, the 5S's, quick change-over, theory of constraints, and total productive maintenance.

**LOG A607 Radio Frequency Capstone** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: LOG A604.  
Registration Restrictions: Acceptance into Graduate Certificate Program or department approval.  
Special Fees.  
Demonstrate mastery of the knowledge and skills expected of someone who is a supply chain management professional through completion of a business case development project using radio frequency identification or RFID.

**LOG A608 Travel/Transportation Capstone** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: LOG A605.  
Registration Restrictions: Acceptance into Graduate Certificate Program or department approval.  
Special Fees.  
Examines an organization with an in-depth analysis of a strategic problem, issue, or opportunity facing that organization. Focuses on integration of concepts learned in other courses applied to a selected field study project.

**LOG A609 Supply Chain Quality Capstone** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: LOG A606.  
Registration Restrictions: Acceptance into Graduate Certificate Program or department approval.  
Special Fees.  
Examines approaches that organizations can take to work with their suppliers to assist them in all facets of improvement with the objective of becoming a preferred supplier. Focuses on concepts, such as supplier total quality, six-sigma quality, project management skills, quality standard and supplier selection and development.

**LOG A661 Supply Chain Strategic Planning** 6 CR  
Contact Hours: 6 + 0  
Registration Restrictions: Admission to the Master of Science, Global Supply Chain Management Program  
Special Fees.  
Study of supply chain management as corporate strategy within a globally competitive environment. Theories of strategy and the principles of financial accounting are used to evaluate various supply chain systems. Logistical processes within supply chains are assessed in terms of their structure and efficiency.

**LOG A662 Supply Chain Knowledge Management** 6 CR  
Contact Hours: 6 + 0  
Prerequisites: LOG A661.  
Registration Restrictions: Admission to the Master of Science, Global Supply Chain Management Program  
Special Fees.  
Study of theories, information systems, and practices used to share information and knowledge within the community of practitioners operating in a global supply chain. Challenges and opportunities associated with applying information technology to supply chain systems are evaluated.

**LOG A663 International Supply Chain Management and Marketing Strategies** 6 CR  
Contact Hours: 6 + 0  
Prerequisites: LOG 661.  
Registration Restrictions: Admission to Master of Science, Global Supply Chain Management Program.  
Special Fees.  
Study of logistical activities of international businesses. Sourcing, manufacturing, marketing, and transportation are assessed in a cross-border, cross-cultural context. The impacts of import-export practices, foreign direct investment, and trade policy on supply chain management are determined and evaluated.
LOG A664  Supply Chain Management Leadership  6 CR
Contact Hours:  6 + 0
Prerequisites: LOG A661.
Registration Restrictions: Admission to Master of Science, Global Supply Chain Management Program.
Special Fees:
Study of the human factors involved in effective supply chain management. Techniques for motivation, human resource management, evaluation of organizational culture and change, leadership, and negotiation are developed and assessed.

LOG A665  Supply Chain Measurement  6 CR
Contact Hours:  6 + 0
Prerequisites: LOG A662.
Registration Restrictions: Admission to Master of Science, Global Supply Chain Management Program.
Special Fees:
Study of the tools needed to measure and sell the value created by logistics throughout the supply chain. An evaluation of factors of complexity and their impact on the creation of value. Physical valuation will be determined through the techniques of supply chain modeling and computer-based simulation. Financial valuation will be determined through activity-based cost accounting and capital budgeting techniques.

LOG A678  Strategic Logistics and Global Supply Chain Management  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Completion of MBA foundation course requirements. Graduate standing or instructor’s permission.
Introductory study of the roles logistics and supply chain management play in a company’s strategic planning in both domestic and global markets, for the MBA generalist.

LS - LIBRARY SCIENCE

Offered through the College of Arts and Sciences
Consortium Library Reference Desk, 786-1848
http://consortiumlibrary.org

LS A101  Library Resources and Information Retrieval  1 CR
Contact Hours:  1 + 0
An introduction to academic library research with an emphasis on electronic resources.

LS A211  Library Research in the 21st Century  3 CR
Contact Hours:  3 + 0
Covers traditional and electronic library sources, the Internet as a research tool, and the critical and ethical uses of information.

LSIC - LIBERAL STUDIES INTEGRATED

CORE

Offered through the College of Arts and Sciences
Beatrice McDonald Hall (BMH), Room 213, 786-6049
http://liberalstudies.uaa.alaska.edu

LSIC A231  Truth, Beauty, and Goodness  3 CR
Contact Hours:  3 + 0
Prerequisites: (ENGL A111 or concurrent enrollment).
Course Attributes: UAA GER Natural Science Requirement.
An interdisciplinary examination of the origins, nature, and structures of power, authority, and governance; the nature of sovereignty; and the processes of reform and revolution. Various disciplinary perspectives are employed in three to four major case studies. Examples may include the Russian Revolution, the American Civil War, the French Revolution, Globalization and Democracy; the Taiping Revolt, the Meiji Restoration, the American Civil Rights Movement, and the Alaska Native Sovereignty Movement.

LSIC A332  Science, Technology, and Culture  3 CR
Contact Hours:  3 + 0
Prerequisites: LSIS A202 and LSSS A111 and LSIC A231 and (LSSS A311 or concurrent enrollment).
Explores the interplay of scientific discovery, technological advancement, and the transformation of human societies. It does so by examining key ethical, social, economic, cultural, and policy issues associated with modern science and technology. A speaking intensive course.

LSIC A392  Seminar in Liberal Studies  1 CR
Contact Hours:  1 + 0
Prerequisites: COMM A111 and ENGL A111.
An advanced Learning Community approach to the study of issues in the natural sciences, social sciences, humanities, and performing and fine arts, using readings, lectures, in-depth small group discussion and activities outside of class. Class will have different focus each year. A writing and speaking intensive course.

LSIC A488A  Capstone Project I: Design and Research  3 CR
Contact Hours:  3 + 0
Prerequisites: LSSS A311 and LSSS A312 and LSIC A331 and LSIC A332.
Registration Restrictions: Completion of 9 credits of Liberal Studies disciplinary concentrations. Completion of GER Tier 1 (basic college-level skills) courses. Course Attributes: UAA GER Integrative Capstone.
The design and initial research phase of a substantial year-long capstone research or creative project. Students will work under the guidance of a faculty or community professional mentor, typically in small groups, to prepare and present a research or creative project proposal and to begin data collection or project implementation.

LSIC A488B  Capstone Project II: Analysis and Presentation  3 CR
Contact Hours:  3 + 0
Prerequisites: LSIC A488A with minimum grade of C.
The analysis and presentation phase of a substantial year-long capstone research or creative project. Students will continue working under the direction of a faculty or community professional mentor, typically in small groups, to complete and present a research or creative project. Requires bi-weekly colloquia with fellow students, mentors, and instructor, and public presentation of final research or creative project.

LSIC - LIBERAL STUDIES INTEGRATED SCIENCES

Offered through the College of Arts and Sciences
Beatrice McDonald Hall (BMH), Room 213, 786-6049
http://liberalstudies.uaa.alaska.edu

LSIS A101  Discoveries in Science  1 CR
Contact Hours:  1 + 0
Course Attributes: UAA GER Natural Sciences Requirement.
Lecture series covering famous scientists and their discoveries. Historical and societal factors that laid the framework for each discovery and how these discoveries were accepted in their time. How the discoveries affect modern science and society. Scientists from different disciplines will present lectures and lead discussions.

LSIS A102  Origins: Earth-Solar System-Life  5 CR
Contact Hours:  3 + 6
Prerequisites: (LSIS A101 or concurrent enrollment) and MATH A105.
Course Attributes: UAA GER Natural Science w/ Lab.
Special Fees:
Origins of earth including its formation, its place in the universe, and the life on this planet. Processes that shape the earth, reasons that earth contains life, and the varieties of past and present forms of life.

LSIS A201  Life on Earth  5 CR
Contact Hours:  3 + 6
Prerequisites: LSIS A102 and (MATH A107 or concurrent enrollment).
Course Attributes: UAA GER Natural Science w/ Lab.
Special Fees:
Examine the biodiversity of life on earth, in the context of chemistry, cell biology, genetics, physiology, ecology, and evolution. Laboratory sessions are designed to increase the student’s understanding of the process of science, hypothesis testing, experimental design, classification, and content knowledge. A writing and speaking intensive course.
MA - MEDICAL ASSISTING
Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 161, 786-6928
www.uaa.alaska.edu/ctc/alliedhealth/ma

MA A101 Medical Terminology I 3 CR
Contact Hours: 3 + 0
Medical terminology, including analysis of its roots and origins. Anatomical, diagnostic, operative, and laboratory terminology of human body systems and selected medical specialties. Emphasis on spelling and pronunciation.

MA A104 Essentials of Human Disease 3 CR
Contact Hours: 3 + 0
Prerequisites: MA A101 with minimum grade of C.
Prepresents a systematic approach to the study of human diseases with an emphasis on signs and symptoms, etiology, and treatment of the more common diseases and clinical disorders. Includes the application of advanced medical terminology in the study of human diseases and pathology.

MA A110 Principles of Radiography 3 CR
Contact Hours: 3 + 0
Special Note: Designed for those currently working in a medical office setting or students who plan to work in a medical setting.

MA A120 Medical Office Procedures 4 CR
Contact Hours: 3 + 2
Special Note: MA A120A and MA A120B satisfy the requirement for MA A120.
Introduces business aspects of medical offices and administrative duties of medical assistants. Includes telephone and reception procedures, appointment scheduling, medical law and ethics, essentials of medical records, professionalism, and financial record keeping for the medical office.

MA A120A Medical Office Procedures A: Legal and Ethical Issues in Medical Assisting 2 CR
Contact Hours: 2 + 0
Special Note: MA A120A and MA A120B satisfy the requirement for MA A120.
Introduces medical law and ethics for medical office personnel and allied health professionals. Includes medicolegal terminology, confidentiality of medical information, HIPAA regulations, informed consent requirements, and recommendations for prevention of professional liability claims.

MA A120B Medical Office Procedures B: An Introduction to Administrative Duties 2 CR
Contact Hours: 1 + 2
Special Note: MA A120A and MA A120B satisfy the requirement for MA A120.
Introduces administrative and business aspects of the medical office and administrative duties of medical assistants. Includes general office duties, telephone and reception procedures, appointment scheduling, essentials of medical records, and financial record keeping for the medical office.

MA A140 Medical Transcription I 2-3 CR
Contact Hours: 1 + 3-6
Prerequisites: (MA A101 with minimum grade of C or concurrent enrollment). Registration Restrictions: 45 wpm keyboarding in Windows word processing. Special Fees.
Special Note: Two (2) credits of this course are required for the Medical Assisting AAS degree. Students wishing to specialize in medical transcription may wish to register for three (3) credits, which requires the transcribing of additional medical reports.
Provides instruction in the machine transcribing of physicians' medical dictation. Introduces the use of transcription equipment, formatting of various medical reports, and transcription techniques and guidelines. Includes the transcribing of medical reports.

MA A141 Medical Transcription II 3 CR
Contact Hours: 1 + 4
Prerequisites: MA A140.
Special Fees.
More advanced and complex machine transcribing of medical dictation.

MA A150 Clinical Procedures I 4 CR
Contact Hours: 3 + 2
Corequisite: MA A150L.
Special Fees.
Introduction to clinical duties of medical assistants and basic clinical procedures in medical offices. Care of patients in examining room, use and care of medical instruments and supplies, and assisting physicians with clinical procedures.

MA A155 Clinical Procedures II 4 CR
Contact Hours: 3 + 2
Corequisite: MA A155L.
Special Fees.
Continuation of MA 150, with introduction to clinical duties of medical assistants and basic clinical procedures in medical offices. Includes electrocardiography, pharmacology, hematology, and radiology.

MA A220 Coding for the Medical Office 3 CR
Contact Hours: 3 + 0
Prerequisites: MA A101 and BIOL A100 or [BIOL A111 and BIOL A112].
Special Fees.
Introduces procedural and diagnostic coding in the ambulatory health care setting. Includes principles of medical coding, conventions and guidelines, importance of accuracy in coding, and an understanding of legal and ethical issues. Emphasis on application of knowledge demonstrated through performance of procedural and diagnostic coding activities.

MA A230 Billing and Insurance for the Medical Office 3 CR
Contact Hours: 2 + 2
Prerequisites: CBS A105 and MA A220.
Special Fees.
Examines health care reimbursement issues including the fundamentals of medical billing and the reimbursement process, computerized patient accounting, and the submission and management of medical insurance claims.
MA A295 Medical Office Externship 5 CR
Contact Hours: .5 + 15
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: A grade of C or better in all courses required for the nontranscribed departmental Certificate of Completion in Medical Assisting.
Provides an opportunity to apply principles, skills and knowledge in private medical offices and clinics as final preparation for employment in the field. Duties are assigned by the UAA instructor and supervised by the physician(s) and medical assistants.
Learning is enhanced by on-campus seminars.

MA A320 Advanced Case Studies in Medical Coding 2 CR
Contact Hours: 2 + 0
Prerequisites: MA A220.
Grade Mode: Pass/No Pass.
Special Fees.
Presents in-depth practice with procedural and diagnostic coding as it applies to the ambulatory care setting through the analysis of case studies. Strengthens and improves coding skills by comprehensively coding both diagnoses and procedures for the same medical record.

MATH - MATHEMATICS
Offered through the College of Arts and Sciences
Social Sciences Building (SSB), Room 154, 786-1744
www.math.uaa.alaska.edu

Each student enrolled in MATH A050 through MATH A205, MATH A250, or MATH A272 on campus will be charged a Math Lab Fee as noted below.

MATH A050A Basic Mathematics 1 CR
Contact Hours: 1 + 0
Special Fees.
Prerequisite: A grade of C or better in MA A220.
Includes addition, subtraction, multiplication, and division (the four basic operations) on whole numbers, fractions, decimals, and a discussion of the order of operations. Computation involving ratios, proportion, and percent is also included. The topic of math anxiety is dealt with throughout the course.

MATH A050B Review of Mathematical Concepts 1 CR
Contact Hours: 1 + 0
Registration Restrictions: MATH A050A or Placement Test.
Includes addition, subtraction, multiplication, and division (the four basic operations) on whole numbers, fractions, decimals, and a discussion of the order of operations. Computation involving ratios, proportion, and percent is also included. The topic of math anxiety is dealt with throughout the course.

MATH A050C Introduction to Equations 1 CR
Contact Hours: 1 + 0
Registration Restrictions: MATH A050B or Placement Test.
Includes addition, subtraction, multiplication, and division (the four basic operations) on whole numbers, fractions, decimals, and a discussion of the order of operations. Computation involving ratios, proportion, and percent is also included. The topic of math anxiety is dealt with throughout the course.

MATH A054 Prealgebra 3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: Presumes a solid foundation in elementary algebra.
Includes addition, subtraction, multiplication, and division (the four basic operations) on whole numbers, fractions, decimals, and a discussion of the order of operations. Computation involving ratios, proportion, and percent is also included. The topic of math anxiety is dealt with throughout the course.

MATH A055 Elementary Algebra 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A054 with minimum grade of C.
Registration Restrictions: If prerequisite is not satisfied, appropriate SAT or ACT scores or approved UAA Placement Test required.
Includes arithmetic operations and applications, whole numbers, integers, fractions, decimals, ratio and proportion, percent, geometry and measures, exponents, algebraic expressions, polynomials, solution of simple equations, and introduction to graphing and statistics.

MATH A060 Essential Mathematics 4 CR
Contact Hours: 4 + 0
Special Fees.
Special Note: Equivalent to MATH A054 and MATH A055. Credit will not be given for both MATH A055 and MATH A060. Placement test not required.
Covers the concepts of basic arithmetic and introductory algebra. Includes operations and properties on real numbers, ratio, proportion, percent, scientific notation and variation, topics from consumer mathematics, evaluation of literal expressions, solution and graphs of linear equations and inequalities; radicals and exponents, polynomials, factoring and special products, fundamental operations with algebraic fractions, solution of quadratic equations, and elementary systems of equations. Geometric formulae are presented on a case-by-case basis as needed.

MATH A101 Technical Mathematics 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A055.
Special Note: This course will not satisfy the Mathematics requirement for the Associate of Arts Degree.
Provides mathematical training for students enrolled in technical programs. Includes algebraic operations, factoring, rational expressions, exponents, quadratic equations, logarithms, systems of equations, geometry, right-triangle trigonometry, and measurement and tolerances. Emphasis on problem-solving and applications.

MATH A105 Intermediate Algebra 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A055 with minimum grade of C or MATH A060 with minimum grade of C.
Registration Restrictions: If prerequisite is not satisfied, appropriate SAT or ACT scores or approved UAA Placement Test required.
Special Fees.
Special Note: Presumes a solid foundation in elementary algebra.
Addresses sets, properties of real numbers, exponents and radicals, solution of first and second-degree equations and inequalities. Also covers word problems, fundamental operations with polynomials, factoring, special products, rational expressions, functions, conic sections, Cartesian graphing of first and second-degree equations and inequalities, systems of equations, and introduction to logarithmic and exponential functions.

MATH A107 College Algebra 4 CR
Contact Hours: 4 + 0
Prerequisites: MATH A105 with minimum grade of C.
Registration Restrictions: If prerequisite is not satisfied, appropriate SAT or ACT scores or approved UAA Placement Test required.
Course Attributes: UAA GER Quantitative Skill Requirement.
Special Fees.
Special Note: A student may apply no more than 7 credits from any combination of MATH A107, A108, and A109 toward the graduation requirements for any baccalaureate degree.
Explores mathematical expressions using real numbers, exponents, and radicals. Includes polynomial, rational, exponential, and logarithmic function, graphs and equations of conic sections, including applications of all these topics; binomial theorem; sequences and series; mathematical induction and combinatoric notation.

MATH A108 Trigonometry 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A107 with minimum grade of C.
Registration Restrictions: If prerequisite is not satisfied, appropriate SAT or ACT scores or approved UAA Placement Test required.
Course Attributes: UAA GER Quantitative Skill Requirement.
Special Fees.
Special Note: A student may apply no more than 7 credits from any combination of MATH A107, A108 and A109 toward the graduation requirements for any baccalaureate degree.
Covers equations and inequalities, function theory, solution of equations greater than second degree, determinants and matrices, systems of equations and inequalities, exponential and logarithmic function, graphs and equations of conic sections, including applications of all these topics; binomial theorem; sequences and series; mathematical induction and combinatoric notation.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Prerequisites</th>
<th>Registration Restrictions</th>
<th>Course Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH A109</td>
<td>Pre-calculus</td>
<td>6 CR</td>
<td>MATH A105 with minimum grade of B.</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Contact Hours: 6 + 0</td>
<td></td>
<td>Registration Restrictions: If prerequisite is not satisfied, appropriate SAT or ACT scores or approved UAA Placement Test required.</td>
<td>Course Attributes: UAA GER Quantitative Skill Requirement.</td>
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<td></td>
<td>Special Fees.</td>
<td></td>
<td>Special Note: Intensive course designed for students who intend to take the calculus sequence (MATH A200, A201, A202). A student may apply no more than seven credits from any combination of MATH A107, A108 and A109 towards the graduation requirements for any baccalaureate degree.</td>
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<tr>
<td>MATH A172</td>
<td>Applied Finite Mathematics</td>
<td>3 CR</td>
<td>MATH A105 with minimum grade of C.</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td>Registration Restrictions: If prerequisite is not satisfied, appropriate SAT or ACT scores or approved UAA Placement Test required.</td>
<td>Course Attributes: UAA GER Quantitative Skill Requirement.</td>
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<td></td>
<td>Special Fees.</td>
<td></td>
<td>Covers linear and quadratic equations and inequalities, algebra of matrices, introductory linear programming, exponential and logarithmic functions. Applications emphasizing the relationships of these mathematical concepts to quantitative decision making in the managerial and social sciences.</td>
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<tr>
<td>MATH A200</td>
<td>Calculus I</td>
<td>4 CR</td>
<td>MATH A107 with minimum grade of C and MATH A108 with minimum grade of C or MATH A109 with minimum grade of CJ</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Contact Hours: 4 + 0</td>
<td></td>
<td>Registration Restrictions: If prerequisite is not satisfied, appropriate SAT, ACT, or AP scores or approved UAA Placement Test required.</td>
<td>Course Attributes: UAA GER Quantitative Skill Requirement.</td>
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<td></td>
<td>Special Fees.</td>
<td></td>
<td>A first course in calculus covering limits, including those with indeterminate form; and derivatives of algebraic and transcendental functions. Applications of derivatives including curve sketching, rates of change, and Newton's Method. Definite and indefinite integrals, including integration by substitution.</td>
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<tr>
<td>MATH A201</td>
<td>Calculus II</td>
<td>4 CR</td>
<td>MATH A200 with minimum grade of C.</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Contact Hours: 4 + 0</td>
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<td>Course Attributes: UAA GER Quantitative Skill Requirement.</td>
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<td></td>
<td>Special Fees.</td>
<td></td>
<td>Covers integration techniques and applications; sequences and series, including convergence tests; curves in the plane and polar coordinates.</td>
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<tr>
<td>MATH A202</td>
<td>Calculus III</td>
<td>4 CR</td>
<td>MATH A201 with minimum grade of C.</td>
<td>Special Fees</td>
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<td>Contact Hours: 4 + 0</td>
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<td>Special Fees.</td>
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<td></td>
<td>Vectors, partial differentiation and multiple integration. Green's Theorem, Stokes' Theorem and the Divergence Theorem.</td>
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<tr>
<td>MATH A205</td>
<td>Communicating Mathematical Ideas</td>
<td>3 CR</td>
<td>EDSE A212 with minimum grade of C or PSY A245 with minimum grade of C.</td>
<td>Special Fees</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td>Registration Restrictions: Department Approval. Minimum grade of C in GER Quantitative Skills course.</td>
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<td></td>
<td>Special Fees.</td>
<td></td>
<td>Special Note: MATH A205 with a minimum grade of C is required to meet State of Alaska Teacher Certification standards. MATH A205 does not satisfy the General Education Quantitative Skills requirement.</td>
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<td></td>
<td>Elementary set theory, numeration systems, basic number theory and divisibility, problem-solving strategies, topics from geometry, including the properties of two-and three-dimensional geometric objects. Field experience in the classroom may be required.</td>
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<tr>
<td>MATH A215</td>
<td>Introduction to Mathematical Proofs</td>
<td>3 CR</td>
<td>MATH A201.</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td>Prerequisites: MATH A201.</td>
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<tr>
<td></td>
<td>Study of logic, sets, relations, functions, cardinality, and an introduction to mathematical proof techniques.</td>
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<tr>
<td>MATH A231</td>
<td>Introduction to Discrete Mathematics</td>
<td>3 CR</td>
<td>MATH A107.</td>
<td>Special Fees</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td>Registration Restrictions: If prerequisite is not satisfied, appropriate SAT, ACT, or AP scores or approved UAA placement test required.</td>
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<td>Special Fees.</td>
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<td>Logic in its connections with mathematical proof, set theory, Boolean algebra, and combinatorial circuits; techniques of counting; elements of graph theory. Additional topics related to the mathematics of computing may include graph and tree traversal, finite automata, and the basics of complexity and formal languages.</td>
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<tr>
<td>MATH A272</td>
<td>Applied Calculus</td>
<td>3 CR</td>
<td>MATH A107 with minimum grade of C or MATH A172 with minimum grade of C.</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td>Course Attributes: UAA GER Quantitative Skill Requirement.</td>
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<td></td>
<td>Special Fees.</td>
<td></td>
<td>Covers functions and graphs, differentiation, exponential and logarithmic functions, antidifferentiation and integration, functions of several variables. Applications of these mathematical concepts.</td>
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<tr>
<td>MATH A302</td>
<td>Ordinary Differential Equations</td>
<td>3 CR</td>
<td>MATH A102 and MATH A215.</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td>Nature and origin of differential equations, first order equations and solutions, linear differential equations with constant coefficients, systems of equations, power series solutions, operational methods, Laplace Transform methods and applications.</td>
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<tr>
<td>MATH A303</td>
<td>Introduction to Modern Algebra</td>
<td>3 CR</td>
<td>MATH A202 and MATH A215.</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td>Nature and origin of differential equations, first order equations and solutions, linear differential equations with constant coefficients, systems of equations, power series solutions, operational methods, Laplace Transform methods and applications.</td>
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<tr>
<td>MATH A305</td>
<td>Introduction to Geometries</td>
<td>3 CR</td>
<td>MATH A102 and MATH A215.</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td>Euclidean and non-Euclidean plane geometry, and topics selected from affine geometry and projective geometry.</td>
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<tr>
<td>MATH A306</td>
<td>Discrete Methods</td>
<td>3 CR</td>
<td>MATH A200 and [MATH A215 or MATH A231].</td>
<td>Special Fees</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td>Graph theoretical and combinatorial problem solving. Discrete models for applied problems are introduced and algorithmic as well as closed form solution techniques are applied.</td>
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<tr>
<td>MATH A314</td>
<td>Linear Algebra</td>
<td>3 CR</td>
<td>MATH A202.</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td>Linear equations, finite dimensional vector spaces, matrices, determinants, linear transformations, and characteristic values. Inner product spaces.</td>
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<tr>
<td>MATH A321</td>
<td>Analysis of Several Variables</td>
<td>3 CR</td>
<td>MATH A202 and MATH A314.</td>
<td>Special Fees</td>
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<td>Contact Hours: 3 + 0</td>
<td></td>
<td>Vector calculus, exterior calculus, optimization techniques, and integration with applications. Emphasizes the use of linear and multilinear algebra techniques to generalize the basic methods of calculus to several independent and dependent variables.</td>
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<tr>
<td>MATH A324</td>
<td>Advanced Calculus</td>
<td>3 CR</td>
<td>MATH A202 and MATH A215.</td>
<td>Special Fees</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td>Investigations of the limit concept with special reference to functions on the real line. Topics include continuous functions and their properties, sequences and series, differentiation and integration of functions.</td>
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<tr>
<td>MATH A371</td>
<td>Stochastic Processes</td>
<td>3 CR</td>
<td>MATH A201 and STAT A307.</td>
<td>Special Fees</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td>Theory and applications, including moment generating functions, conditional expectation, Poisson processes, Markov chains, and topics selected from branching processes, queuing theory, random walks, and reliability theory.</td>
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</tbody>
</table>
MATH A407 Mathematical Statistics I 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202 and STAT A307.
Topics include random variables, distribution functions, expectation and moment generating function, special parametric families of univariate distributions, joint and conditional distributions, stochastic independence, conditional expectation, distributions of functions of random variables, convergence concepts, and parametric estimation by maximum likelihood.

MATH A408 Mathematical Statistics II 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A407.
Topics include sampling distributions, order statistics, point estimation, maximum likelihood estimators, consistency, unbiasedness, mean square error, Cramer-Rao lower bound, asymptotics of statistics, sufficient statistics, uniformly minimum variance and unbiased (UMVU) estimators, confidence intervals and hypotheses testing, lemma of Neyman Pearson, and statistical decision theory.

MATH A410 Introduction to Complex Analysis 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202.
Analytic functions, Cauchy's Theorem, sequences and series, integration and residues.

MATH A420 History of Mathematics 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202 and MATH A215.
Registration Restrictions: Completion of GER Tier I (basic college-level skills) courses and junior standing. In addition to MATH prerequisites, one 100-level GER HIST prefix course is required.
Course Attributes: UAA GER Integrative Capstone.
Historical development of mathematical concepts in algebra, geometry, number theory, analytical geometry, and calculus.

MATH A422 Partial Differential Equations 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A302.
Analysis and solution of partial differential equations. Initial and boundary value problems for elliptic, hyperbolic and parabolic types will be classified and solved. Additional topics will be selected by faculty member teaching the course.

MATH A423 Advanced Engineering Mathematics 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A302.
Special Note: Course does not satisfy Mathematics Major requirements.
A practical review of mathematics for engineers. Includes partial differential equations, vector and matrix analysis, Fourier analysis, and complex analysis.

MATH A426 Numerical Methods 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A201.
Special Fees:
Introduction to numerical methods and software packages to solve applied problems. Topics include matrices with emphasis on using them to solve systems of linear equations, methods of solving non-linear equations, techniques to interpolate and approximate functions, methods of numerical differentiation and integration, and numerical methods to solve ordinary and partial differential equations. MATLAB and Mathematica will be used to solve applied problems with these techniques.

MATH A490A Selected Topics in Pure Mathematics 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: MATH A215 and MATH A314.
Registration Restrictions: Instructor permission required.
Special Note: Depending on topic selected, use of symbolic computation software may be required. May be repeated once for credit with a change in subtitle.
Advanced topics in mathematics selected as continuations of, or complements to, the content of upper-division undergraduate mathematics courses. Emphasis on theoretical developments.

MATH A490B Selected Topics in Applied Mathematics 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: MATH A302 and MATH A314.
Registration Restrictions: Instructor permission required.
Special Fees:
Special Note: Depending on topic selected, use of numerical and/or symbolic computation software, including scientific programming, may be required. May be repeated once for credit, with a change in subtitle.
Advanced topics in mathematics applied to science and technology.

MATH A495 Mathematics Practicum 1-3 CR
Contact Hours: 0 + 3-9
Prerequisites: MATH A202.
Registration Restrictions: Faculty permission required.
Grade Mode: Pass/No Pass.
Special Note: May be repeated up to a maximum of 3 credits. May not be applied towards upper division elective credits for the Mathematics or Computer Science degrees.
Provides upper-division mathematics majors the experience of teaching mathematics. The student is responsible for 3 hours per week per credit in the mathematics laboratory.

ME - MECHANICAL ENGINEERING
Offered Through the School of Engineering Engineering Building (ENGR), Room 201, 786-1973 www.engr.uaa.alaska.edu

ME A302 Mechanical Design I 4 CR
Contact Hours: 3 + 3
Prerequisites: ES A208 or ES A210.
Analysis and design of displacements, velocities, accelerations, and forces in linkages, cams, and gear systems by analytical, experimental, and computer methods. Application of kinematics and dynamics of mechanisms.

ME A308 Instrumentation and Measurement 3 CR
Contact Hours: 2 + 3
Prerequisites: ES A309.
Crosslisted with: EE A308.
Instrumentation theory and concepts of digital and analog devices, transducers, data sensing transmission, recording and display, instrumentation system, remote sensing, and hostile environmental conditions.

ME A313 Mechanical Engineering Thermodynamics 3 CR
Contact Hours: 3 + 0
Prerequisites: ES A346.
Investigation and design of power and refrigeration cycles (Rankine, Brayton, Otto, and Diesel), compressible flow (isentropic, shock waves, and flow in ducts with friction), and combustion and gas vapor mixtures.

ME A334 Elements of Material Science 3 CR
Contact Hours: 3 + 0
Prerequisites: CHEM A106 and PHYS A211.
Investigation and study of crystal structure, defect structure, aspects of metal processing, heat treatment, joining, testing, failure analysis, and phase diagrams for engineering applications and design.

ME A403 Mechanical Design II 3 CR
Contact Hours: 3 + 0
Prerequisites: [ENGR A161 or ES A201] and MATH A302.
Design and analysis of machines by analytical, experimental, and computer methods. Identification of requirements and conceptual design of mechanical systems, detailed design of components, strength, life, reliability, and cost analysis.

ME A408 Dynamics of Systems 3 CR
Contact Hours: 2 + 3
Prerequisites: [ENG A161 or ES A201] and [ES A208 or ES A210] and MATH A302.
Crosslisted with: EE A408.
Response of mechanical systems to internal and external forces. Free and forced vibration, random vibration. Discrete and continuous systems. Vibration parameter measurements and stability criteria.

ME A414 Thermal Systems Design 3 CR
Contact Hours: 3 + 0
Prerequisites: ES A346.
Introduction to the design of power and space conditioning systems, energy conversion, heating, ventilating, air conditioning, total energy systems, and introduction to thermal system simulation and optimization.
MECH A438 Design of Mechanical Engineering Systems 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Student must be in senior year of BSE degree program or obtain faculty permission. Completion of GER Tier 1 (Basic College-level Skills) courses.  
Course Attributes: UAA GER Integrative Capstone.  
Capstone course in which mechanical engineering students design a mechanical engineering component or system starting with the initial design specification to the implementation and testing. Students apply knowledge and skills learned in their undergraduate curriculum.

MECH A441 Heat and Mass Transfer 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ES A302 and ES A341 and ES A346.  
The study of heat and mass transfer concepts to engineering problems including steady state and transient conduction, laminar and turbulent free and forced convection, evaporation, condensation, ice and frost formation, black body and real surface radiation, and heat exchangers.

MECH A471 Automatic Control 3 CR  
Contact Hours: 3 + 0  
Prerequisites: EE A351 and MATH A302.  
Use of linear system representation by transfer functions, signal flow graphics, and state equations. Feedback, time and frequency response of linear systems. Stability analysis by Routh-Hurwitz criterion and frequency domain methods, and system design and compensation.

MECH A644 Corrosion Processes and Engineering 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ES A346.  
Registration Restrictions: Prerequisite and graduate standing, or faculty permission.  
The study of different corrosion processes and mechanisms. Topics include the concepts, materials, and mechanisms of corrosion with application to engineering design for corrosion prevention.

MECH A685 Arctic Heat and Mass Transfer 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ES A346.  
Registration Restrictions: Graduate standing, with a degree in engineering or physical science, or upper class standing in an accredited undergraduate program in these categories. Special Fees.  
Application of the principles of heat and mass transfer with special emphasis on application to problems encountered in the Arctic such as ice and frost formation, permafrost, condensation, and heat loss in structures.

MEDT - MEDICAL LABORATORY TECHNOLOGY

MEDT A101 Phlebotomy Procedures 3 CR  
Contact Hours: 2 + 3  
Registration Restrictions: Departmental approval. Special Fees.  
Introduces concepts, procedures and equipment used in phlebotomy. Topics include: infection control, laboratory safety, specimen requisitioning, blood collection and handling techniques, quality assurance, communications and professionalism. Prepares students for phlebotomy practicum.

MEDT A102 Urinalysis for Clinical Assistants 2 CR  
Contact Hours: 2 + 0  
Prerequisites: MEDT A101 with minimum grade of C. Special Fees.  
Covers physical, chemical, and microscopic analysis of urine at the clinical assistant level.

MEDT A103 Hematology for Clinical Assistants 3 CR  
Contact Hours: 3 + 0  
Prerequisites: MEDT A101 with minimum grade of C. Special Fees.  
Covers specimen collection, reagent preparation, quality control, and testing of hematology and coagulation specimens at the clinical assistant level.

MEDT A104 Clinical Chemistry for Clinical Assistants 3 CR  
Contact Hours: 3 + 0  
Prerequisites: MEDT A101 with minimum grade of C. Special Fees.  
Covers specimen collection, reagent preparation, quality control, and testing of clinical chemistry specimens at the clinical assistant level.

MEDT A105 Microbiology for Clinical Assistants 3 CR  
Contact Hours: 2 + 2  
Prerequisites: MEDT A100 with minimum grade of C. Registration Restrictions: Departmental approval. Special Fees.  
Develops skills in the selection, inoculation and incubation of appropriate media for culturing clinical microbiology specimens.
MEDIT A106  Waived Testing  4 CR  
Contact Hours:  3 + 3  
Prerequisites: MEDIT A110 with minimum grade of C.  
Registration Restrictions: Departmental approval.  
Special Fees.  
Introduces quality control, instrumentation and methodologies for waived testing in hematology, chemistry, urinalysis and microbiology. Prepares students for clinical assistant practicum.

MEDIT A110  Specimen Processing  3 CR  
Contact Hours:  3 + 0  
Prerequisites: MEDIT A101 with minimum grade of C.  
Registration Restrictions: Departmental approval. Prerequisite may be waived with documented experience in phlebotomy as assessed by faculty. Special Fees.  
Introduces common procedures used to safely and accurately collect, separate and transport specimens prior to testing. Clinical and technical responsibilities of the clinical assistant are introduced, including accessioning, determining specimen acceptability and problem solving. Lab information system processes, quality assurance and compliance within the laboratory will be included.

MEDIT A132  Introduction to Laboratory Medicine  3 CR  
Contact Hours:  2 + 2  
Registration Restrictions: Departmental approval.  
May be stacked with: MEDIT A133.  
Special Fees.  
Introduces the basic terms, concepts, procedures, and equipment used in a clinical laboratory. Topics include: professional ethics, regulatory agencies, laboratory safety, phlebotomy, specimen processing, measurements and calculations, laboratory information systems and quality assurance.

MEDIT A133  Basic Techniques in Laboratory Medicine  1 CR  
Contact Hours:  1 + 0  
Prerequisites: MEDIT A101 with minimum grade of C.  
Registration Restrictions: Departmental approval. Prerequisite may be waived with documented experience in phlebotomy as assessed by faculty.  
May be stacked with: MEDIT A132.  
Introduces the basic terms, concepts, procedures, and equipment used in a clinical laboratory. Topics include: laboratory measurements and calculations, laboratory information systems and quality assurance.

MEDIT A195A  Phlebotomy Practicum  3 CR  
Contact Hours:  0 + 9  
Prerequisites: MEDIT A101 with minimum grade of C and (MEDIT A110 with minimum grade of C or concurrent enrollment).  
Registration Restrictions: Departmental approval.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Applies principles of safety, phlebotomy and specimen processing techniques to patient testing in a clinical laboratory. Prepares student for entry-level employment as a phlebotomist.

MEDIT A195B  Clinical Assistant Practicum  4 CR  
Contact Hours:  0 + 12  
Prerequisites: MEDIT A105 with minimum grade of C and MEDIT A106 with minimum grade of C.  
Registration Restrictions: Departmental approval.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Applies principles of safety, quality control, waived testing and culture set-up to patient testing in a clinical laboratory. Prepares student for entry-level employment as a clinical assistant.

MEDIT A202  Clinical Chemistry  6 CR  
Contact Hours:  3 + 6  
Prerequisites: BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and [CHEM A103 with minimum grade of C and CHEM A103L with minimum grade of C or CHEM A105 with minimum grade of C and CHEM A105L with minimum grade of C] and [CHEM A104 with minimum grade of C or CHEM A21 with minimum grade of C] and MEDIT A132 with minimum grade of C.  
Registration Restrictions: Departmental approval.  
Special Fees.  
Develops skills in performing chemical analysis of blood and other body fluids. Discusses and practices specific testing procedures for various organ systems. Correlates laboratory results with clinical findings. Emphasizes quality assurance.

MEDIT A203  Clinical Microbiology  6 CR  
Contact Hours:  3 + 6  
Prerequisites: BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and [CHEM A103 with minimum grade of C and CHEM A103L with minimum grade of C or CHEM A105 with minimum grade of C and CHEM A105L with minimum grade of C] and [CHEM A104 with minimum grade of C or CHEM A21 with minimum grade of C] and MEDIT A132 with minimum grade of C.  
Registration Restrictions: Departmental approval.  
Special Fees.  
Emphasizes the media, isolation and culture techniques, biochemical tests and staining techniques used in the identification, susceptibility testing and rapid antigen testing of microorganisms of medical importance to humans. Includes bacteriology and an introduction to parasitology, mycology and virology.

MEDIT A204  Hematology and Coagulation  6 CR  
Contact Hours:  3 + 6  
Prerequisites: BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and [CHEM A103 with minimum grade of C and CHEM A103L with minimum grade of C or CHEM A105 with minimum grade of C and CHEM A105L with minimum grade of C] and [CHEM A104 with minimum grade of C or CHEM A21 with minimum grade of C] and MEDIT A132 with minimum grade of C.  
Registration Restrictions: Departmental approval.  
Special Fees.  
Examines community, personal and family relationships, and education through the lenses of cross-cultural holistic health and healing practices. Brings the student into a direct relationship with health care consumers from various cultural backgrounds.

MEDIT A205  Cultural Diversity in Health Care  1 CR  
Contact Hours:  1 + 0  
Registration Restrictions: Departmental approval.  
Grade Mode: Pass/No Pass.  
Examines community, personal and family relationships, and education through the lenses of cross-cultural holistic health and healing practices. Brings the student into a direct relationship with health care consumers from various cultural backgrounds.

MEDIT A206  Immunology and Blood Banking  6 CR  
Contact Hours:  3 + 6  
Prerequisites: BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and [CHEM A103 with minimum grade of C and CHEM A103L with minimum grade of C or CHEM A105 with minimum grade of C and CHEM A105L with minimum grade of C] and [CHEM A104 with minimum grade of C or CHEM A21 with minimum grade of C] and MEDIT A132 with minimum grade of C.  
Registration Restrictions: Departmental approval.  
Special Fees.  
Examines community, personal and family relationships, and education through the lenses of cross-cultural holistic health and healing practices. Brings the student into a direct relationship with health care consumers from various cultural backgrounds.

MEDIT A208  Urine and Body Fluid Analysis  3 CR  
Contact Hours:  2 + 2  
Prerequisites: BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and [CHEM A103 with minimum grade of C and CHEM A103L with minimum grade of C or CHEM A105 with minimum grade of C and CHEM A105L with minimum grade of C] and [CHEM A104 with minimum grade of C or CHEM A21 with minimum grade of C] and MEDIT A132 with minimum grade of C.  
Registration Restrictions: Departmental approval.  
Special Fees.  
Examines community, personal and family relationships, and education through the lenses of cross-cultural holistic health and healing practices. Brings the student into a direct relationship with health care consumers from various cultural backgrounds.

MEDIT A250  Cultural Diversity in Health Care  1 CR  
Contact Hours:  1 + 0  
Registration Restrictions: Departmental approval.  
Grade Mode: Pass/No Pass.  
Examines community, personal and family relationships, and education through the lenses of cross-cultural holistic health and healing practices. Brings the student into a direct relationship with health care consumers from various cultural backgrounds.

MEDIT A295  Clinical Practicum  12 CR  
Contact Hours:  0 + 36  
Prerequisites: MEDIT A202 with minimum grade of C and MEDIT A203 with minimum grade of C and MEDIT A204 with minimum grade of C and MEDIT A206 with minimum grade of C and MEDIT A208 with minimum grade of C.  
Registration Restrictions: Departmental approval.  
Special Fees.  
Applies knowledge and skills acquired in medical laboratory technology (MEDT) courses to laboratory testing at a clinical facility. Supervised by UAA faculty and clinical laboratory personnel.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CR</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Corequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDT A301</td>
<td>Clinical Molecular Biology</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Prerequisites: BIOL A112 with minimum grade of C and MATH A107 with minimum grade of C and [CHEM A104 with minimum grade of C or CHEM A321 with minimum grade of C].</td>
<td>Registration Restrictions: MILS A150.</td>
</tr>
<tr>
<td>MILS A102</td>
<td>Introduction to Tactical Leadership</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: MILS A101.</td>
<td>Corequisite: MILS A150.</td>
</tr>
<tr>
<td>MILS A150</td>
<td>Army ROTC Leadership and Physical Training Laboratory</td>
<td>1 CR</td>
<td>0 + 4</td>
<td>Registration Restrictions: MILS A101 or A102 or A201 or A202 or A301 or A302 or A401 or A402.</td>
<td>Grade Mode: Pass/No Pass. Special Fees. Allows for practical experience of theories learned in a classroom environment. Exchanges principles of patrolling, land navigation and physical training in a real world environment. Evaluates proficiency in one field training exercise per semester lasting no longer than 72 hours. Tests their academic knowledge and prepares them for their future roles as United States Army Officers.</td>
</tr>
<tr>
<td>MILS A201</td>
<td>Foundations of Leadership</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: MILS A102.</td>
<td>Corequisite: MILS A150.</td>
</tr>
<tr>
<td>MILS A202</td>
<td>Foundations of Tactical Leadership</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: MILS A201.</td>
<td>Corequisite: MILS A150.</td>
</tr>
<tr>
<td>MILS A301</td>
<td>Adaptive Team Leadership</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: MILS A202.</td>
<td>Registration Restrictions: Restricted to contracted ROTC cadets only.</td>
</tr>
<tr>
<td>MILS A302</td>
<td>Applied Team Leadership</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: MILS A301.</td>
<td>Registration Restrictions: Restricted to contracted ROTC cadets only.</td>
</tr>
<tr>
<td>MILS A401</td>
<td>Adaptive Leadership</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: MILS A302.</td>
<td>Registration Restrictions: Restricted to contracted ROTC cadets only.</td>
</tr>
</tbody>
</table>

**MILS - MILITARY SCIENCE**

**Offered through the Community and Technical College University Center (UC), Room 141, 229-8990**

|MILS A101  | Leadership and Personal Development             | 3 CR| 3 + 0         | Corequisite: MILS A150.                                                     | Introduces students to the personal challenges and competencies that are critical for effective leadership. Educates students on how the personal development of life skills such as time management, physical fitness, and stress management relate to leadership, Officership, and Army operations. Develops basic knowledge and comprehension of Army Leadership Dimensions while gaining a big picture understanding of the ROTC program, its purpose in the Army, and its advantages for the student. |
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COURSE DESCRIPTIONS

MILS A402  Leadership in a Complex World  3 CR
Contact Hours: 3 + 0
Prerequisites: MILS A401.
Registration Restrictions: Restricted to contracted ROTC cadets only.
Corequisite: MILS A150.
Explores the dynamics of leading in the complex situations of current military operations in the contemporary operating environment (COE). Examines differences in customs and courtesies, principles of war, and rules of engagement in the face of international terrorism. Explores aspects of interacting with non-government organizations, civilians on the battlefield, and host nation support.

MT - MARINE TECHNOLOGY
Offered through Kenai Peninsula College
156 College Road, Soldotna, Alaska, 99669, (907) 262-0330.
www.kpc.alaska.edu

MT A101  Boating Safety and Essential Navigation  1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Special Note: Swimming attire or change of clothing is needed. Encouraged to bring Personal Floatation Device and immersion suit.
Entry-level course that fosters safe operation of boats in compliance with boating laws. Addresses Alaska-specific issues, topics, and the essentials of coastal navigation. Includes pool time relating to cold water safety and survival techniques. Students will receive a certificate from the National Association of Boating Law Administrators (NASBLA).

MT A231  Vessel Commercial License Preparation  3 CR
Contact Hours: 3 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Preparation for passing the USCG license exam for motor boat operator of uninspected passenger vessels, and master, inland and near coastal.

MTP - MASSAGE THERAPY PROGRAM
Offered through the Community and Technical College
Allied Health Sciences Building (AHS), Room 219, 786-4930
www.uaa.alaska.edu/ctc/alliedhealth/massage

MTP A151  Human Health and Disease I  3 CR
Contact Hours: 3 + 0
Special Fees.
Introduces 11 basic systems of the human body, their anatomical cellular structures, and physiological functions. First of a two-part course presenting the core material of anatomy, physiology, and pathology.

MTP A154  Professional Communication and Documentation for Massage Therapists  2 CR
Contact Hours: 1 + 2
Prerequisites: (MTP A151 with minimum grade of C or concurrent enrollment).
Special Fees.
Examines standards for, and provides practice in documentation, professional communication and record management in a professional setting.

MTP A156  Standards in Therapeutic Massage  3 CR
Contact Hours: 3 + 0
Prerequisites: MTP A151 and MTP A154 and (MTP A167 with minimum grade of C or concurrent enrollment).
Corequisite: MTP A157 and MTP A158.
Special Fees.
Introduces the principles, professional standards, and ethics for massage practitioners.

MTP A157  Applications in Therapeutic Massage  4 CR
Contact Hours: 2 + 4
Prerequisites: MTP A151 and MTP A154 and MTP A167 with minimum grade of C.
Corequisite: MTP A156 and MTP A158.
Special Fees.
Introduces the benefits, physiological effects, and practical applications of therapeutic massage. Presents body mechanic concepts and therapist injury prevention.

MTP A158  Swedish Massage Development  2 CR
Contact Hours: 0 + 4
Prerequisites: MTP A151 and MTP A154 and (MTP A167 with minimum grade of C or concurrent enrollment).
Corequisite: MTP A156 and MTP A157.
Grade Mode: Pass/No Pass.
Special Fees.
Practices Swedish massage techniques, draping, and proper body mechanics.

MTP A167  Introduction to Human Movement  2 CR
Contact Hours: 2 + 0
Prerequisites: (MTP A151 with minimum grade of C or concurrent enrollment).
Special Fees.
Presents basic human movement terms and concepts. Includes the study of individual muscles, bones, and bony landmarks.

MUS - MUSIC
Offered through the College of Arts and Sciences
Fine Arts Building (ARTS), Room 302, 786-1595
http://music.uaa.alaska.edu

MUS A101A  Community College Chorus  2 CR
Contact Hours: 2 + 0
Grade Mode: Pass/No Pass.
Performance-oriented class for community choral singing.

MUS A101  Community Chorus I  2 CR
Contact Hours: 2 + 0
Registration Restrictions: Admission by audition only.
Special Fees.
Special Note: May be repeated once for credit.
Performance-oriented large chorus. Established community organization for singers who read music, demonstrate secure rhythm and pitch, and produce acceptable vocal sound.

MUS A102  Concert Chorus I  2 CR
Contact Hours: 2 + 0
Registration Restrictions: Play a concert band instrument or read music well enough to quickly learn one.
Grade Mode: Pass/No Pass.
Offered only at Matanuska-Susitna College.
Special Note: Age group ranges from 10-80. Experience ranges from basic to professional.
Structured, established concert band.

MUS A103  Matanuska-Susitna College Community Band  2 CR
Contact Hours: 2 + 0
Registration Restrictions: Play a concert band instrument or read music well enough to quickly learn one.
Grade Mode: Pass/No Pass.
Offered only at Matanuska-Susitna College.
Special Note: May be repeated once for credit.
Performance-oriented class for community choral singing.

MUS A111  Fundamentals of Music  3 CR
Contact Hours: 3 + 0
Rudimentary work in the elements of music and an introduction to notation, rhythm, scales, keys, intervals, and musical terminology. Designed for students with little or no background in music reading, or as a refresher course for those who have studied music.

MUS A112  Practical Theory  3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A111.
Registration Restrictions: Ability to read music, demonstrate secure rhythm and pitch, and produce acceptable vocal sound.
Elementary study of harmony and melody; formation of scales, modes, intervals, chords, inversions, and simple harmonic progressions. Writing and harmonizing of melodic lines.

MUS A115  Jazz Theory I  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Ability to read music, theory background, basic ability on an instrument.
Detailed study of jazz using modulation, sequence, transposition, arranging, and voicing through analysis and dictation. Course is adapted to individual students on keyboard or other instruments.

MUS A116  Jazz Theory II  3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A115.
Application of skills obtained in MUS 115. Modulation, sequence, transposition, arranging, and voicing are studied, with compositions performed by lab groups. Copyright preparation is discussed.
### MUS A121 Music Appreciation 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Fine Arts Requirement.
Special Note: Music majors may not use this course towards their GER-Fine Arts requirement.
Basic elements of the physics of musical sound and music notation, followed by a survey of the history and development of Western music from the early Middle Ages to the present.

### MUS A124 History of Jazz 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Fine Arts Requirement.
History and development of jazz from its early heritage to the present, emphasizing representative styles and individual or group contributors. Recordings, guest artists, and possible field trips enhance regular classroom activities.

### MUS A131 Music Theory I 3 CR
Contact Hours: 3 + 0
Corequisite: MUS A133.
Organization of musical materials with emphasis on diatonic functional harmony. Introduction to part writing and keyboard skills.

### MUS A132 Music Theory II 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A131.
Corequisite: MUS A134.
Continuation of MUS A131, emphasizing part writing and melody harmonization. Introduction of non-harmonic tones and modulation and development of practical keyboard skills.

### MUS A133 Sightsinging and Ear Training I 2 CR
Contact Hours: 2 + 0
Corequisite: MUS A131.
The development of skills in hearing and reading music. The course features the study of intervals and chords and common metrical patterns.

### MUS A134 Sightsinging & Ear Training II 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A133.
Corequisite: MUS A132.

### MUS A140 Fingerstyle Guitar I 2 CR
Contact Hours: 2 + 0
Special Note: Students must furnish their own 6-string acoustic or classical guitar.
Beginning course for those who do not read music or who have limited experience with the guitar. Reading and performing melodies, solos, and accompaniment on the guitar from standard treble staff notation. Use of traditional and contemporary musical examples to teach at least 13 basic chords in the first position, alternating bass technique, and six fingerstyle patterns.

### MUS A141 Fingerstyle Guitar II 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A140.
Registration Restrictions: Audition required for students who have not completed MUS A140, demonstrating ability to noteread melodies on the guitar in C Major and A minor and acquaintance with fingerstyle technique and the concept of alternating bass.
Continuation of MUS A140 and development of music reading skills using standard treble staff notation. Introduces barre chords, bass runs, ornamentation, and Major and minor scale studies in the first and second positions. Solo examples from traditional, classical, and contemporary literature and fingerstyle patterns in simple and compound time.

### MUS A142 Guitar Chord Theory 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Ability to read music on the treble staff. May be taken concurrently with MUS A141.
Special Note: Instrument required.
One-semester theory course for guitar students. Includes analysis and construction of scales, intervals, chords, and key centers. Develops transcription skills, assignment of chords to melodies, harmonization, and eartraining. Hands-on exercises focus on practical application to the instrument.

### MUS A150 Piano Class I 1 CR
Contact Hours: 1 + 0
Special Fees.

### MUS A152 Voice Class I 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Ability to match pitches.
Special Fees.
Special Note: Ability to read music not a prerequisite.
Study and practice of basic fundamentals of singing and song interpretation, stressing attitude and correct practice habits. Introduces and expands general knowledge of singing: mechanism, technique, repertoire, and performance practices.

### MUS A154 Functional Piano I 1 CR
Contact Hours: 1 + 0
Prerequisites: (MUS A131 or concurrent enrollment).
Helps music majors obtain performance, sight-reading, and harmonization/transposition skills needed to pass Piano Proficiency Examination. Emphasizes basic reading skills and keyboard coordination.

### MUS A155 Functional Piano II 1 CR
Contact Hours: 1 + 0
Prerequisites: MUS A154.
Continuation of MUS A154, using simple literature, sight-reading exercises, major scales and cadences, and simple tunes with primary triads.

### MUS A161 Private Lessons 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Special Note: Performance majors enroll for 2 credits.
Private music instruction in brass, guitar, harpsichord, organ, percussion, piano, strings, voice, and woodwinds.

### MUS A162 Private Lessons 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Special Note: Performance majors enroll for 2 credits.
Continuation of MUS A161.

### MUS A163 Private Lessons (Non-Major) 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Private lessons in brass, guitar, harpsichord, organ, percussion, piano, strings, voice and woodwinds for non-majors.

### MUS A164 Private Lessons (Non-Major) 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS A163.

### MUS A202 Concert Chorus II 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Admission by audition only.
Special Fees.
Special Note: May be repeated once for credit.
Performance-oriented large chorus. Established community organization for singers who read music, demonstrate secure rhythm and pitch, and produce acceptable vocal sound.

### MUS A215 Music of Alaska Natives and Indigenous Peoples of Northern Regions 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Crosslisted with: AKNS A215.
Course Attributes: UAA GER Fine Arts Requirement.
Special Note: AKNS A201 or MUS A111 recommended.
Explores the music of Alaska Natives and Indigenous Peoples of Northern regions by group, including influences from Euro-American music.

### MUS A221 History of Music I 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A121 or MUS A131.
Course Attributes: UAA GER Fine Arts Requirement UAA GER Humanities Requirement.
Special Note: BA music majors may not use this course towards their GER-Fine Arts or CAS Humanities sequence requirements.
Music before 1750. Explores stylistic developments and structure from Antiquity through Medieval, Renaissance, and Baroque eras within their historical context.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites/Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS A222</td>
<td>History of Music II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0&lt;br&gt;Prerequisites: MUS A121 or MUS A131. Course Attributes: UAA GER Fine Arts Requirement UAA GER Humanities Requirement. Special Note: BA music majors may not use this course towards their GER-Fine Arts or CAS Humanities sequence requirements. Western Art music since 1750. Stylistic developments and structure through Classical, Romantic, and 20th Century eras within their historical context. Also covers World Music topics, with attention to the Music of the North (Alaska Native).</td>
</tr>
<tr>
<td>MUS A231</td>
<td>Music Theory III</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0&lt;br&gt;Prerequisites: MUS A132. Corequisite: MUS A233. Functional harmony featuring part writing and melody harmonization and introducing chromatic harmony. Covers modulation, secondary dominant functions, and other altered chords along with analysis of binary and ternary forms.</td>
</tr>
<tr>
<td>MUS A232</td>
<td>Music Theory IV</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0&lt;br&gt;Prerequisites: MUS A231. Corequisite: MUS A234. Continuation of MUS A231. Features borrowed chords and other types of chromatic harmonies. Surveys 20th Century harmony.</td>
</tr>
<tr>
<td>MUS A233</td>
<td>Sightsinging and Ear Training III</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact Hours: 2 + 0&lt;br&gt;Prerequisites: MUS A134. Corequisite: MUS A231. Develops advanced skills in hearing and reading music. Features modulation, chromaticism and complex rhythmic patterns.</td>
</tr>
<tr>
<td>MUS A240</td>
<td>Fingerstyle Guitar III</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact Hours: 2 + 0&lt;br&gt;Prerequisites: MUS A141 and MUS A142. Registration Restrictions: Faculty permission. Continuation of MUS A141. Intermediate skills including ornamentation, notereading in the second position, and moving bass lines. Development of solo technique with repertoire selected from classical and contemporary composers. Fingerstyle syncopated rhythms and blues and flamenco studies.</td>
</tr>
<tr>
<td>MUS A242</td>
<td>Solo Fingerstyle Guitar</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact Hours: 2 + 0&lt;br&gt;Prerequisites: MUS A142 and MUS A240. Registration Restrictions: Faculty permission required. Continuation of MUS A240. Review of second position and introduction of notereading in the 4th and 5th positions. Intermediate solo repertoire including examples from the Latin American composers. Fingerstyle technique using extended chords in barre positions and pattern modulation.</td>
</tr>
<tr>
<td>MUS A261</td>
<td>Private Lessons</td>
<td>1-2 CR</td>
<td>1-2 + 3-6</td>
<td>Contact Hours: 1-2 + 3-6&lt;br&gt;Special Fees. Continuation of MUS A162.</td>
</tr>
<tr>
<td>MUS A262</td>
<td>Private Lessons</td>
<td>1-2 CR</td>
<td>1-2 + 3-6</td>
<td>Contact Hours: 1-2 + 3-6&lt;br&gt;Special Fees. Continuation of MUS A261.</td>
</tr>
<tr>
<td>MUS A263</td>
<td>Private Lessons (Non-Major)</td>
<td>1-2 CR</td>
<td>1-2 + 3-6</td>
<td>Contact Hours: 1-2 + 3-6&lt;br&gt;Special Fees. Continuation of MUS A164.</td>
</tr>
<tr>
<td>MUS A264</td>
<td>Private Lessons (Non-Major)</td>
<td>1-2 CR</td>
<td>1-2 + 3-6</td>
<td>Contact Hours: 1-2 + 3-6&lt;br&gt;Special Fees. Continuation of MUS A263.</td>
</tr>
<tr>
<td>MUS A280</td>
<td>Basic Conducting</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact Hours: 2 + 0&lt;br&gt;Prerequisites: MUS A131. Introduces principles of conducting. Explores time-beating, use of left hand, score reading, and transposition as it relates to conducting.</td>
</tr>
<tr>
<td>MUS A301A</td>
<td>University Singers</td>
<td>1 CR</td>
<td>2 + 0</td>
<td>Contact Hours: 2 + 0&lt;br&gt;Registration Restrictions: By audition. Grade Mode: Pass/No Pass. May be stacked with: MUS A301B. Special Fees. Special Note: May be repeated for credit. Elective credit for the non music major. Rehearsal and performance of literature for large choral ensemble, including works from the Renaissance to the present day.</td>
</tr>
<tr>
<td>MUS A301B</td>
<td>University Singers</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact Hours: 2 + 0&lt;br&gt;Registration Restrictions: By audition. Grade Mode: Pass/No Pass. May be stacked with: MUS A301A. May be repeated for credit. Ensemble credit for vocal majors. Rehearsal and performance of literature for large choral ensemble, including works from the Renaissance to the present day.</td>
</tr>
<tr>
<td>MUS A302A</td>
<td>Chamber Music and Accompanying</td>
<td>1 CR</td>
<td>1 + 3</td>
<td>Contact Hours: 1 + 3&lt;br&gt;Registration Restrictions: By audition. Grade Mode: Pass/No Pass. May be stacked with: MUS A302B. May be repeated for credit. Advanced vocalists and instrumentalists are also encouraged to enroll. Ensemble course for the non music major pianist. Covers the art of accompanying singers and instrumentalists and relevant skills such as sight-reading and score-reading.</td>
</tr>
<tr>
<td>MUS A302B</td>
<td>Chamber Music and Accompanying</td>
<td>2 CR</td>
<td>1 + 3</td>
<td>Contact Hours: 1 + 3&lt;br&gt;Registration Restrictions: By audition. Grade Mode: Pass/No Pass. May be stacked with: MUS A302A. May be repeated for credit. Advanced vocalists and instrumentalists are also encouraged to enroll. Ensemble course for pianists. Covers the art of accompanying singers and instrumentalists and relevant skills such as sight-reading and score-reading.</td>
</tr>
<tr>
<td>MUS A303A</td>
<td>University Wind Ensemble</td>
<td>1 CR</td>
<td>2 + 0</td>
<td>Contact Hours: 2 + 0&lt;br&gt;Registration Restrictions: By audition. Grade Mode: Pass/No Pass. May be stacked with: MUS A303B. May be repeated for credit. In-depth rehearsal and performance of original band music and transcriptions from Renaissance up to and including 20th century literature. Ensemble for the non music major.</td>
</tr>
<tr>
<td>MUS A303B</td>
<td>University Wind Ensemble</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact Hours: 2 + 0&lt;br&gt;Registration Restrictions: By audition. Grade Mode: Pass/No Pass. May be stacked with: MUS A303A. May be repeated for credit. In-depth rehearsal and performance of original band music and transcriptions from Renaissance up to and including 20th century literature. Ensemble course for wind and percussion majors.</td>
</tr>
<tr>
<td>MUS A307A</td>
<td>University Sinfonia</td>
<td>1 CR</td>
<td>2 + 0</td>
<td>Contact Hours: 2 + 0&lt;br&gt;Registration Restrictions: By audition. Grade Mode: Pass/No Pass. May be stacked with: MUS A307B. Special Note: May be repeated for credit. Intensive study of chamber orchestra literature leading to public performance. String music for intermediate and advanced performers. Includes wind and percussion players for specific works. Ensemble for non music majors.</td>
</tr>
</tbody>
</table>
MUS A307B University Sinfonia 2 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
May be stacked with: MUS A307A.
Special Note: May be repeated for credit.
Intensive study of chamber orchestra literature leading to public performance. String music for intermediate and advanced performers. Includes wind and percussion players for specific works. Ensemble for string majors.

MUS A313 Opera Workshop 2 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition Special Fees.
Special Note: May be repeated for credit. Only 4 credits of MUS A313 may be applied to the Bachelor of Music degrees.
Rehearsal and performance of selected operas, operettas and musical theatre. Meets the small ensemble requirement for music majors.

MUS A331 Form and Analysis 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A232.
Registration Restrictions: Completion of GER Tier I (basic college-level skills) courses and junior standing.
Course Attributes: UAA GER Integrative Capstone.
Structural principles of music of the 18th and 19th centuries.

MUS A361 Private Lessons 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS A262.

MUS A362 Private Lessons 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS 361.

MUS A363 Private Lessons (Non-Major) 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS A264.

MUS A364 Private Lessons (Non-Major) 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS A363.

MUS A365 Chamber Ensemble 1 CR
Contact Hours: 1 + 0
Prerequisites: MUS A162.
Registration Restrictions: Faculty approval.
Special Note: May be repeated for credit 3 times.
Instrumental/Vocal ensemble of three or more. Students select a faculty coach and prepare and deliver a chamber work in a Department event or other approved public venue.

MUS A371 Brass Methods and Techniques 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A132.
Special Fees.
Special Note: Student must be able to read music fluently while holding/performing on the brass instruments.
Instruction in the brass instruments. The course is part of the teacher training program.

MUS A372 Woodwind Methods and Techniques 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A132.
Special Fees.
Special Note: Student must be able to read music fluently while holding/performing on the woodwind instruments.
Instruction in the woodwind instruments. The course is part of the teacher training program.

MUS A373 String Methods and Techniques 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A132.
Special Fees.
Special Note: Student must be able to read music fluently while holding/performing on the string instruments.
Instruction in the stringed instruments of the orchestra and guitar. The course is part of the teacher training program.

MUS A374 Voice Methods and Techniques 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A132.
Special Note: Student must be able to sing and read music fluently.
Instruction in musical use of the voice. The course is part of the teacher training program.

MUS A375 Percussion Methods and Techniques 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Student must be able to read music fluently while holding/performing on the percussion instruments.
Special Fees.
Instruction in the percussion instruments. The course is part of the teacher training program.

MUS A376 Elementary Music Methods and Techniques 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A132.
Special Fees.
Special Note: Students must be able to sing and read music fluently and be able to hold and perform various instruments.
Introduction in elementary music instruments, philosophies, and techniques. The course is part of the Bachelor of Music with Emphasis in Music Education program.

MUS A381 Choral Conducting 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A232 and MUS A280.
Principles of conducting and interpreting choral music.

MUS A382 Instrumental Conducting 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A232 and MUS A280.
Principles of conducting and interpreting instrumental music.

MUS A405A University Jazz Ensemble 1 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Grade Mode: Pass/No Pass.
May be stacked with: MUS A405B.
Special Fees.
Special Note: May be repeated for credit.
Rehearsal and performance of big band jazz. Music selected from a variety of styles and eras including swing, rock, fusion and pop. Ensemble for non music majors.

MUS A405B University Jazz Ensemble 2 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Special Note: May be repeated for credit.
Rehearsal and performance of big band jazz. Music selected from a variety of styles and eras including swing, rock, fusion and pop. Elective for music majors.

MUS A407 Jazz Combo 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A162.
Registration Restrictions: By audition.
Special Fees.
Special Note: May be repeated for credit.
Rehearsal and performance of combo jazz styles Music selected from a variety of styles and eras including swing, Latin, and fusion. Meets small ensemble requirement for music majors.

MUS A408A University Percussion Ensemble 1 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Grade Mode: Pass/No Pass.
May be stacked with: MUS A408B.
Special Note: May be repeated for credit.
Study and performance of percussion chamber music including 20th century literature for percussion as well as transcriptions of earlier music. Ensemble for non music majors.

MUS A408B University Percussion Ensemble 2 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
May be stacked with: MUS A408A.
Special Note: May be repeated for credit.
Study and performance of percussion chamber music including 20th century literature for percussion as well as transcriptions of earlier music. Elective for music majors.
### MUS A409A  University Guitar Ensemble  1 CR
- Contact Hours: 2 + 0
- Registration Restrictions: By audition. Recommended: prior ensemble or solo recital experience.
- Grade Mode: Pass/No Pass.
- May be stacked with: MUS A409B.
- Special Fees.
- Special Note: May be repeated for credit.

Study and performance of traditional repertoire, Latin and European folk music, and popular and classical themes arranged for two or more guitars. Provides experience in sight-reading and refines practice and memorization skills. Emphasizes stylistic interpretation and stage delivery. Ensemble for non music majors.

### MUS A409B  University Guitar Ensemble  2 CR
- Contact Hours: 2 + 0
- Registration Restrictions: By audition. Recommended prior ensemble or solo recital experience.
- May be stacked with: MUS A409A.
- Special Fees.
- Special Note: May be repeated seven times for credit.

Continuation of MUS A409A.

### MUS A412  Music in the Baroque Period  3 CR
- Contact Hours: 3 + 0
- Prerequisites: MUS A22 and MUS A232.
- Special Note: BA music majors must first pass MUS 154 and the functional piano exam by jury before enrolling in this course.

Musical style from 1600 to 1750. In-depth study of keyboard music, opera, oratorio and cantata, and instrumental music. Requires intensive listening and reading of music.

### MUS A422  Music in the Classical Period  3 CR
- Contact Hours: 3 + 0
- Prerequisites: MUS A22 and MUS A232.
- Special Note: BA music majors must first pass MUS 154 and the functional piano exam by jury before enrolling in this course.

Musical style from 1720 to 1830. In-depth study of the music of pre-classic composers and Haydn, Mozart, and Beethoven. Requires intensive listening and reading of music.

### MUS A423  Music in the Romantic Period  3 CR
- Contact Hours: 3 + 0
- Prerequisites: MUS A22 and MUS A232.
- Special Note: BA music majors must first pass MUS 154 and the functional piano exam by jury before enrolling in this course.

Musical style from 1820 to 1900. In-depth study of orchestral and choral music, opera, lied, and music for piano. Requires intensive listening and reading of music.

### MUS A424  Music in the 20th Century  3 CR
- Contact Hours: 3 + 0
- Prerequisites: MUS A22 and MUS A232.
- Special Note: BA music majors must first pass MUS A154 and the functional piano exam by jury before enrolling in this course.

Musical developments since 1900. In-depth study of serialism, neo-classicism, neo-Romanticism, expressionism, primitivism, minimalism, and styles since 1950. Requires intensive listening and reading of music.

### MUS A431  Counterpoint  3 CR
- Contact Hours: 3 + 0
- Prerequisites: MUS A232.

Study of the contrapuntal techniques of the 16th and 18th centuries. Features writing in appropriate vocal and instrumental form.

### MUS A432  Orchestration  3 CR
- Contact Hours: 3 + 0
- Prerequisites: MUS A232.

Principles and practices of composing and transcribing music for various instrumental ensembles, including band and orchestra.

### MUS A461  Private Lessons  1-2 CR
- Contact Hours: 1-2 + 3-6
- Special Fees.
  - Continuation of MUS A362.

### MUS A462  Private Lessons  1-2 CR
- Contact Hours: 1-2 + 3-6
- Special Fees.
  - Continuation of MUS 461.

### MUS A466  String and Wind Master Class  1 CR
- Contact Hours: 1 + 0
- Registration Restrictions: Faculty Permission.
- Special Fees.

Seminar in performance practice for string and wind players. Comparative analysis and discussion of string and wind literature and close examination of their styles and periods (early Baroque through 20th century). At least one performance or research project required each semester.

### MUS A467  Piano Master Class  2 CR
- Contact Hours: 2 + 0
- Special Note: Mandatory each semester for piano performance majors; 8 credits minimum required for piano majors in music education; may be repeated for credit.

Seminar in performance practice for pianists. Comparative analysis and discussion of piano literature and close examination of its styles and periods (early Baroque through 20th century). At least one performance or research project required each semester.

### MUS A468  Voice Master Class  2 CR
- Contact Hours: 2 + 0
- Registration Restrictions: Faculty permission required.
- Special Fees.

Special Note: Mandatory each semester for vocal performance majors; 8 credits minimum required for vocal majors in music education; may be repeated for credit.

Performance and discussion of the styles and periods of vocal literature ranging from the Renaissance to contemporary repertoire. Weekly in class performance trains the student to be more at ease and effective in singing.

### MUS A469  Guitar Master Class  2 CR
- Contact Hours: 2 + 0
- Registration Restrictions: One of MUS A147, MUS A240, or private lessons.
- Special Note: Mandatory each semester for guitar performance majors; 8 credits minimum required for guitar majors in music education; may be repeated for credit.

- Designed to improve the effectiveness of guitar performance, build confidence and stage presence by exploring technique and interpretation through actual stage experience. Problems arising from public performance will be discussed and solutions offered. The proper stylistic approach to works of specific composers will be addressed.

### MUS A603  Wind Ensemble Performance Projects  2 CR
- Contact Hours: 1 + 4
- Registration Restrictions: Completion of baccalaureate degree in music and audition.

Development and implementation of standards based curricular performance projects for band. Students participate in University Wind Ensemble for lab experience.

### MUS A668A  Methods for Teaching Music I, K-12  3 CR
- Contact Hours: 3 + 0
- Prerequisites: EDFN A601 and EDFN A602 and EDFN A603.
- Registration Restrictions: Admission to the Master of Arts in Teaching Program; departmental approval required.
- Corequisite: EDFN A695C.

- Special Note: Concurrent enrollment in internship is required.

Provides students with the fundamentals of standards-based curriculum planning and assessment for the diverse student population in secondary classrooms. Includes an overview of the content areas typically taught in K-12 music curriculum. Integrates technology, health enhancement, literacy, and education for special populations.

### MUS A668B  Methods for Teaching Music II, K-12  3 CR
- Contact Hours: 3 + 0
- Prerequisites: MUS A668A and EDFN A695C.
- Registration Restrictions: Admission to the Master of Arts in Teaching Program; departmental approval required.
- Corequisite: EDFN A695D.

- Special Note: Concurrent enrollment in internship is required.

Provides students with the opportunity to develop pedagogical content knowledge by connecting theoretical knowledge and understanding of human development and learning with both general principles of instruction and content-specific strategies for teaching music.
**NS - NURSING SCIENCES**

Offered through the College of Health & Social Welfare

Professional Studies Building (PSB), Room 103, 786-4550

http://nursing.uaa.alaska.edu

**NS A204  Technology and Nursing Informatics  3 CR**

Contact Hours: 3 + 0

Prerequisites: ENGL A111 and ENGL A213 and [PHIL A101 or PHIL A201] or ENGL A120.

Registration Restrictions: Admission to Clinical Nursing Major or RN licensure in the State of Alaska.

Corequisite: NS A216 and NS A300.

Special Fees.

- Concepts and applications of nursing informatics in health care organizations.
- Evaluate the impact of technology on nursing practice and on client education, including privacy and security issues.
- Explore electronic resources available to clients and nurses.

**NS A205  Nursing Informatics  3 CR**

Contact Hours: 3 + 0

Registration Restrictions: Admission to clinical major and/or RN Licensure in the State of Alaska.

Corequisite: NS A216 and NS A300.

Special Fees.

- Concepts and applications of nursing informatics in health care organizations.
- Explore electronic resources available to clients and nurses.

**NS A216  Pathophysiology  4 CR**

Contact Hours: 4 + 0

Prerequisites: BIOL A112 with minimum grade of C and CHEM A104 with minimum grade of C and CHEM A104L with minimum grade of C.

Registration Restrictions: Admission to Clinical Nursing major or RN licensure in State of Alaska.

Corequisite: NS A204 and NS A300.

Special Fees.

Special Note: Offered Fall and Spring Semesters.

- Basic conceptual study of disease and the resultant abnormal functioning. Key concepts are utilized to assist students to develop knowledge and understanding of basic physiologic mechanisms of and responses to disease.

**NS A300  Foundations of Nursing I: Roles, Processes, and Trends  4 CR**

Contact Hours: 4 + 0

Prerequisites: ENGL A111 and ENGL A213 and [PHIL A101 or PHIL A201] or ENGL A120.

Corequisite: NS A204 and NS A216.

Special Fees.

- Explores the implications of historical events and contemporary trends on the profession of nursing. Nursing roles and the nursing process are examined with an emphasis on promoting health and preventing disease.

**NS A303  Foundations of Nursing II: Therapeutics  3 CR**

Contact Hours: 3 + 0

Prerequisites: NS A204 and NS A216 and NS A300.

Corequisite: NS A303L and NS A309.

Special Fees.

Special Note: Offered Fall and Spring Semesters.

- Systematic use of the nursing process in the care of individuals in a variety of settings. Emphasis on identifying the physiological and psychosocial alterations in health patterns and the basic therapeutic nursing intervention.

**NS A303L  Foundations of Nursing II: Laboratory  5 CR**

Contact Hours: 0 + 15

Prerequisites: NS A204 and NS A216 and NS A300.

Corequisite: NS A303 and NS A309.

Grade Mode: Pass/No Pass.

Special Fees.

- Application of the nursing process and basic therapeutic nursing intervention in the laboratory and selected clinical settings.

**NS A305  Health Assessment of Individuals  2 CR**

Contact Hours: 2 + 0

Prerequisites: (NS A205 or concurrent enrollment).

Major Restriction: Must be Nursing major.

Registration Restrictions: Admission to the clinical major and RN licensure in the state of Alaska.

Corequisite: NS A305L.

Special Note: Offered only in Fall semester.

- Focuses on health assessment across the lifespan with an emphasis on interviewing and data collection, interpretation, and documentation. Provides the skills for developing a systematic approach to performing a health history and physical examination.

**NS A305L  Health Assessment of Individuals Laboratory  1 CR**

Contact Hours: 0 + 3

Prerequisites: (NS A205 or concurrent enrollment).

Major Restriction: Must be Nursing major.

Registration Restrictions: Admission to clinical major and RN licensure in the state of Alaska.

Corequisite: NS A305.

Grade Mode: Pass/No Pass.

Special Fees.

- Laboratory experience to apply knowledge and skills introduced in NS A305.

**NS A308  Dimensions of Professional Nursing Practice  3 CR**

Contact Hours: 3 + 0

Prerequisites: NS A204.

Special Fees.

- Facilitates the RN student's return to school to the baccalaureate nursing program.
- Introduces the theories, concepts, roles, and competencies relevant to professional nursing practice.
- The history of nursing provides the context for exploring the evolution of nursing as a profession. Examines current social, political, and legal issues and trends in health care and their implications for nursing practice and the RN student's goals for professional development.

**NS A309  Pharmacology in Nursing  3 CR**

Contact Hours: 3 + 0

Prerequisites: NS A204 with minimum grade of C and NS A216 with minimum grade of C and NS A300 with minimum grade of C.

Registration Restrictions: Admission to BS, Nursing Science major, or RN licensure in State of Alaska.

Special Fees.

- In-depth consideration of the use of prescription and non-prescription drugs by individuals at varying developmental levels and with differing health status. Within the context of the nursing process, students develop the knowledge and skills needed to safely administer drugs, to assist clients to develop decision-making skills to enable independent management of drug regimens, to evaluate clients’ responses to drug therapy, and to prevent and minimize toxicity.

**NS A313  Health Disruptions I  3 CR**

Contact Hours: 3 + 0

Prerequisites: NS A204 with minimum grade of C and NS A216 with minimum grade of C and NS A300 with minimum grade of C and NS A303L with minimum grade of P and NS A309 with minimum grade of C.

Major Restriction: Must be Nursing major.

Corequisite: NS A313L.

Introduces episodic health disruptions occurring across the lifespan to include collaborative care and nursing management. Nursing therapeutics focus on nursing management of the individual and the family within an acute care setting.

**NS A313L  Health Disruptions I Laboratory  3 CR**

Contact Hours: 0 + 9

Prerequisites: NS A204 with minimum grade of C and NS A216 with minimum grade of C and NS A300 with minimum grade of C and NS A303L with minimum grade of P and NS A309 with minimum grade of C.

Major Restriction: Must be Nursing major.

Corequisite: NS A313.

Grade Mode: Pass/No Pass.

Special Fees.

- Clinical experience introducing episodic health disruptions occurring across the lifespan to include collaborative care and nursing management. Emphasizes psychomotor competencies associated with clinical conditions in the clinical setting. Nursing therapeutics focus on nursing management of the individual and the family within the acute care setting.

**NS A314  Health I for Registered Nurses  2 CR**

Contact Hours: 2 + 0

Prerequisites: NS A205 with minimum grade of C and NS A308 with minimum grade of C.

Major Restriction: Must be Nursing major.

Registration Restrictions: Admission to the clinical major and RN licensure in the state of Alaska.

Corequisite: NS A314L and NS A417.

Special Note: Offered only in Spring semester.

- Emphasizes health promotion, illness prevention, and health protection strategies for individuals and families across the lifespan to achieve and maintain healthy lifestyles and self-management of health. Introduces concepts of community health nursing, epidemiology, and injury prevention.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Special Fees</th>
<th>Grade Mode</th>
<th>Registration Restrictions</th>
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</thead>
<tbody>
<tr>
<td>NS A314L</td>
<td>Health I for Registered Nurses Laboratory</td>
<td>2 CR</td>
<td>0 + 6</td>
<td>NS A205 with minimum grade of C and NS A308 with minimum grade of C. Major Restriction: Must be Nursing major.</td>
<td>Registration Restrictions: Admission to the clinical major and RN licensure in the state of Alaska.</td>
<td>Corequisite: NS A314. Grade Mode: Pass/No Pass. Special Fees.</td>
<td>Pass/No Pass.</td>
<td>Must be Nursing major.</td>
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<tr>
<td>NS A315</td>
<td>Health I: Nursing Therapeutics</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>NS A204 with minimum grade of C and NS A216 with minimum grade of C and NS A300 with minimum grade of C and NS A303 with minimum grade of C and NS A303L with minimum grade of P and NS A309 with minimum grade of C. Major Restriction: Must be Nursing major. Corequisite: NS A315. Grade Mode: Pass/No Pass. Special Fees.</td>
<td>Emphasizes health states and risk factors in individuals and families across the lifespan that are amenable to health promotion and illness prevention efforts, achieving and maintaining healthy lifestyles, as well as self-management of health.</td>
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<tr>
<td>NS A315L</td>
<td>Health I: Nursing Therapeutics Laboratory</td>
<td>3 CR</td>
<td>0 + 9</td>
<td>NS A204 with minimum grade of C and NS A216 with minimum grade of C and NS A300 with minimum grade of C and NS A303 with minimum grade of C and NS A303L with minimum grade of P and NS A309 with minimum grade of C. Corequisite: NS A315. Grade Mode: Pass/No Pass. Special Fees.</td>
<td>Provides clinical experience to build skills and reinforce student learning in NS A315.</td>
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<tr>
<td>NS A400</td>
<td>Nursing Research</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>NS A303 with minimum grade of C and NS A303L with minimum grade of P and NS A313 with minimum grade of C and NS A313L with minimum grade of P and NS A315 with minimum grade of C and NS A315L with minimum grade of P and NS A415 with minimum grade of P. Registration Restrictions: Prior completion of a statistics course. Special Fees.</td>
<td>Introduction to research methods in nursing and health care. Emphasis on identification of researchable questions, problem formulation, research design, data collection, and analysis. Focus on the role of the professional nurse prepared at the baccalaureate level and on strategies for the utilization of research findings in clinical practice.</td>
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<tr>
<td>NS A401</td>
<td>Health Disruptions II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>NS A313 with minimum grade of C and NS A313L with minimum grade of P and NS A315 with minimum grade of C and NS A315L with minimum grade of P. Corequisite: NS A401L. Special Fees.</td>
<td>Emphasis on episodic health disruptions in specialty-focused care. Nursing therapeutics focus on care of individuals, families and environments.</td>
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<tr>
<td>NS A401L</td>
<td>Health Disruptions II Laboratory</td>
<td>2.5 CR</td>
<td>0 + 7.5</td>
<td>NS A313 with minimum grade of C and NS A313L with minimum grade of P and NS A315 with minimum grade of C and NS A315L with minimum grade of P. Corequisite: NS A401. Grade Mode: Pass/No Pass. Special Fees.</td>
<td>Provides clinical experience to build skills and reinforce student learning in NS A401.</td>
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<tr>
<td>NS A406</td>
<td>Nursing Therapeutics in Complex Health Disruptions</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>NS A401 with minimum grade of C and NS A401L with minimum grade of P. Corequisite: NS A404L. Emphasis on health disruptions with complex pathophysiology and/or psychological adjustments of clients of all ages and their families. Nursing management includes a high level of collaboration with other health care providers and agencies utilizing previously learned nursing therapeutics.</td>
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<tr>
<td>NS A406L</td>
<td>Nursing Therapeutics in Complex Health Disruptions Laboratory</td>
<td>2.5 CR</td>
<td>0 + 7.5</td>
<td>NS A401 with minimum grade of C and NS A401L with minimum grade of P. Corequisite: NS A404L. Grade Mode: Pass/No Pass. Special Fees.</td>
<td>Provides clinical experience to build skills and reinforce student learning in NS A406L.</td>
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<tr>
<td>NS A408</td>
<td>Complex Health Disruptions: Nursing Therapeutics</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>NS A314 with minimum grade of C and NS A314L with minimum grade of P. Registration Restrictions: RN-BS program students only. Corequisite: NS A408L. Emphasis on health disruptions with complex pathophysiology and/or psychological adjustments of clients of all ages and their families. Nursing management includes a high level of collaboration with other health care providers and agencies utilizing previously learned nursing therapeutics from prerequisite courses and nursing experience.</td>
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<tr>
<td>NS A408L</td>
<td>Complex Health Disruptions Laboratory: Nursing Therapeutics</td>
<td>2 CR</td>
<td>0 + 6</td>
<td>NS A314 with minimum grade of C and NS A314L with minimum grade of P. Corequisite: NS A408. Grade Mode: Pass/No Pass. Special Fees.</td>
<td>Clinical experience to build skills and reinforce student learning in NS A408.</td>
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<tr>
<td>NS A411</td>
<td>Health II: Nursing Therapeutics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>NS A400 with minimum grade of C and NS A401L with minimum grade of P and NS A416 with minimum grade of C and NS A400L with minimum grade of P. Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and junior standing. Corequisite: NS A411L. Course Attributes: UAA GER Integrative Capstone. Focused on describing the health status of populations and vulnerable groups with an emphasis on identifying health disparities and population-focused interventions that foster risk reduction through health promotion and disease prevention. The impact of social, cultural, economic, and global factors on health status will be explored as they relate to health policy and nursing's role in the policymaking process.</td>
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<tr>
<td>NS A411L</td>
<td>Health II: Nursing Therapeutics Laboratory</td>
<td>3 CR</td>
<td>0 + 9</td>
<td>NS A400 with minimum grade of C and NS A401L with minimum grade of C and NS A416L with minimum grade of P. Corequisite: NS A411. Grade Mode: Pass/No Pass. Special Fees.</td>
<td>Clinical experience to build skills and reinforce student learning in NS A411.</td>
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<tr>
<td>NS A415</td>
<td>Nursing Management and Legal Perspectives</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>NS A313 with minimum grade of C and NS A314 with minimum grade of C and NS A319 with minimum grade of C. Special Fees.</td>
<td>Theories of management and organizations for basic students in relation to health care delivery systems. Emphasis is on the role of the professional nurse in health care organizations. Provides an overview of skills and techniques used for effective leadership and management of health care services. Exploration of legal implications and perspectives in nursing practice.</td>
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<tr>
<td>NS A416</td>
<td>Concentration in Clinical Nursing</td>
<td>5 CR</td>
<td>1 + 0</td>
<td>NS A400 with minimum grade of C and NS A401L with minimum grade of P and NS A406L with minimum grade of C and NS A400L with minimum grade of P and NS A412L with minimum grade of P and NS A415L with minimum grade of C. Corequisite: NS A416L. Grade Mode: Pass/No Pass. Special Fees.</td>
<td>Facilitates the integration and synthesis of knowledge basic to a beginning professional level of nursing practice. A major emphasis upon analyzing and evaluating issues arising in the practice setting.</td>
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</table>
NS A416L Concentration in Clinical Nursing Lab 3.5 CR
Contact Hours: 0 + 10.5
Prerequisites: NS A400 with minimum grade of C and NS A401 with minimum grade of C and NS A401L with minimum grade of P and NS 406 with minimum grade of C and NS A406L with minimum grade of P and NS A411L with minimum grade of C and NS A411L with minimum grade of P and NS A415 with minimum grade of C. Corequisite: NS A416L. Special Fees.
Grade Mode: Pass/No Pass.
Application of clinical skills acquired throughout the BS Nursing program in a clinical setting incorporating research, management, and theory in delivering nursing care to individuals, families, and populations.

NS A417 Management in Nursing 3 CR
Contact Hours: 3 + 0
Prerequisites: NS A305 and NS A306. Major Restriction: Must be Nursing major.
Special Note: Offered only in Spring semester.
Explores theories of management in relation to health care delivery systems. Discusses strategies and techniques for effective leadership and management in health care environments. Synthesizes and integrates knowledge and skills gained from clinical practice into theoretical context.

NS A420 Nursing Care of Special Populations 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Enrollment in the School of Nursing or hold RN licensure in Alaska. Special Fees.
Investigation of the challenges facing nurses caring for individuals with a developmental (intellectual or physical) disability. Exploitation of communication styles, psychosocial needs, physical needs, and integration of individuals with developmental disabilities into the community health care system.

NS A421 Sexual Assault Response Team Training 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Registered Nurse or current enrollment in a nursing program. Development of advanced knowledge and skills required for nurses to function effectively as members of a multi-disciplinary Sexual Assault Response Team (SART). Covers roles of team members, team building strategies, development of SART procedures and protocols, interaction with judicial system, skill development in performing medical-legal examination and collecting forensic evidence, sex offender characteristics, identification of community resources, and exploration of cultural issues.

NS A422 Nursing Interventions for the Critically Ill Adult 2-3 CR
Contact Hours: 2 + 0-3
Registration Restrictions: Grade of C or better in all required 300-level nursing courses. Special Fees.
Emphasizes the specific nursing care needs of critically ill adults and the role of the critical care nurse. Case studies are used to assist students to apply the nursing process to the care of critically ill adults to promote movement of the client from critical illness to recovery and independence. Clinical experiences consist of participant observation in a variety of critical care settings.

NS A423 Transcultural Nursing 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska. Special Fees.
Examination of sociocultural factors that influence health, illness, and health-related human behavior. Introduction to concepts that place health-related behaviors within a cultural context and to the elements of a culturally sensitive approach to clients seeking professional nursing care services.

NS A424 Issues in Women’s Health 3 CR
Contact Hours: 3 + 0
Prerequisites: NS A300 with minimum grade of C and NS A303 with minimum grade of C and NS A303L with minimum grade of P and NS A309 with minimum grade of C and NS A313 with minimum grade of C and NS A331L with minimum grade of P and NS A315 with minimum grade of C and NS A315L with minimum grade of P.
Registration Restrictions: If prerequisites not met, then RN licensure in the state of Alaska. Special Fees.
Explores current issues, research, and controversies affecting women’s health with a focus on health promotion and maintenance. Addresses life cycle issues, special needs, unique populations and advocacy.

NS A426 Critical Care Concepts in Acute Care Settings 3 CR
Contact Hours: 3 + 0
Registration Restrictions: RN licensure in state of Alaska. Special Fees.
Prepares experienced, registered nurses for entry-level practice in critical care and provides opportunities to analyze past and current clinical situations and adapt concepts used in critical care settings to their current practice. Emphasis on developing an ability to predict and project events for clients who are either critically ill or have the potential to develop a critical illness. Builds on sound assessment skills and broad experiences of competent registered nurses.

NS A427 Care of Victims of Family Violence 3 CR
Contact Hours: 3 + 0
Prerequisites: NS A300 and NS A303 and NS A309.
Registration Restrictions: If prerequisites not met, RN licensure in State of Alaska. Special Fees.
Overview of family violence and its impact on health. The etiology of family violence is explored from various theoretical perspectives with an emphasis on prevention and intervention with at-risk groups. Focuses on the collaborative role of the nurse and the knowledge and skills applicable to providing care for victims of family violence.

NS A428 Nursing Clients with Chemical Dependency 3 CR
Contact Hours: 3 + 0
Prerequisites: NS A300 with minimum grade of C and NS A303 with minimum grade of C and NS A309 with minimum grade of C. Registration Restrictions: If prerequisites not met, then RN licensure in the state of Alaska. Special Fees.
In-depth study of the pathophysiology, psychopharmacologic and sociocultural effects of chemical dependency. Emphasizes the collaborative role of the nurse in managing the care of clients who are chemically dependent and their families using the nursing process.

NS A429 Perioperative Nursing 3 CR
Contact Hours: 2 + 3
Prerequisites: NS A300 with minimum grade of C and NS A303 with minimum grade of C and NS A303L with minimum grade of P and NS A309 with minimum grade of C and NS A313 with minimum grade of C and NS A313L with minimum grade of P and NS A315 with minimum grade of C and NS A315L with minimum grade of P.
Registration Restrictions: If prerequisites not met, then RN licensure in state of Alaska. Special Fees.
Introduction to the operating room, its origin and purpose, including functions of the operating room team members. Covers the perioperative nursing role as it relates to a client undergoing surgery. The nursing process is utilized as a basis for planning, implementing, and evaluating individualized care.

NS A430 Rural Health Care 3 CR
Contact Hours: 3 + 0
Prerequisites: NS A300 with minimum grade of C.
Registration Restrictions: If prerequisite not met, then RN licensure in the state of Alaska. Special Fees.
Analysis of rural health care from a problem-solving framework. Alaskan communities are utilized as a focus for the course.

NS A431 Human Sexuality in Health and Illness 3 CR
Contact Hours: 3 + 0
Prerequisites: NS A300 with minimum grade of C and NS A303 with minimum grade of C and NS A303L with minimum grade of P and NS A309 with minimum grade of C.
Registration Restrictions: If prerequisites not met, then RN licensure in state of Alaska. Special Fees.
Explores physiological, psychological and social nature of human sexuality and implications for the role of the professional nurse. Emphasizes the sexual behavior of individuals and groups and the impact of illness on sexuality.

NS A433 Health Education: Theory and Practice 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Grade of C or better in Nursing Foundations I, II, and III or RN licensure in State of Alaska. Crosslisted with: HS A433. Special Fees.
Introduction to the principles, methods, and resources used in health education. Examines psychosocial and cultural determinants of health behavior and their role in the development of effective health education strategies. Explores organizational, societal, and professional issues influencing health education for individuals, groups, and communities.
NS A434  Health Care of the Elderly  3 CR  
Contact Hours: 3 + 0  
Prerequisites: NS A300 with minimum grade of C and NS A303 with minimum grade of C and NS A303L with minimum grade of P and NS A309 with minimum grade of C.  
Registration Restrictions: Prerequisites or RN licensure in Alaska.  
Special Fees.  
Overview of issues which affect older adults and their lifestyles. Addresses normal physiological and psychosocial aging changes, and health concepts of prevention, promotion, and protection. Includes issues affecting care giving of older family members in a multitude of settings. Explores health policies which have financial, legal, and ethical implications. Highlights special needs of Alaskan elderly.

NS A435  Disaster Nursing  3 CR  
Contact Hours: 3 + 0  
Prerequisites: (NS A303 with minimum grade of C or concurrent enrollment) and (NS A309 with minimum grade of C or concurrent enrollment).  
Registration Restrictions: Prerequisites or RN licensure in Alaska.  
Exploration of varying types of disasters, their effects on populations and the subsequent role of federal, state, and local agencies in management. Examines roles of the health care agencies and nursing responsibilities both within the community and in acute care agencies.

NS A440  Nursing Honors I: Project Exploration  1 CR  
Contact Hours:  .5 + 1.5  
Prerequisites: (NS A440 or concurrent enrollment).  
Registration Restrictions: Permission for enrollment in Nursing Honors by Baccalaureate Chair and Nursing Baccalaureate Curriculum Committee. Completion of all required 300 level nursing courses.  
Special Fees.  
Developing a rationale, justification, and plan for a project involving nursing practice and/or nursing management of a client or population in any health care setting. Basic research techniques and discovery are used.

NS A441  Nursing Honors II: Project Implementation  2 CR  
Contact Hours:  .5 + 4.5  
Prerequisites: NS A400 and NS A440.  
Registration Restrictions: Permission for enrollment in Nursing Honors by Baccalaureate Chair and Nursing Baccalaureate Curriculum Committee.  
Special Fees.  
Completion and presentation of the project identified in NS A440. Includes application of basic research techniques and discovery for a question involving nursing practice and/or nursing management of a client or population in any health care setting.

NS A451  Introduction to Neonatal Intensive Care Nursing  3 CR  
Contact Hours: 3 + 0  
Prerequisites: (NS A401 or concurrent enrollment).  
Introduction to neonatal critical care nursing. Topics include the pathophysiology and nursing management of common neonatal disease states, developmentally-focused nursing care of premature and newborn infants, and current issues and trends in neonatal nursing.

NS A601  Advanced Pathophysiology  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing or faculty permission.  
Special Fees.  
Analysis and critical review of disease processes and resulting abnormal functioning across the lifespan. Critical thinking is used to interpret pathophysiologic changes that result in clinical manifestations indicative of illness.

NS A602  Advanced Health Assessment in Primary Care  3 CR  
Contact Hours: 2 + 3  
Level Restriction: Must be Graduate - UAA level.  
Registration Restrictions: Grade of C or better in an undergraduate health and physical assessment course. Admission to graduate nursing program, Family Nurse Practitioner, Nursing Education, or Psychiatric-Mental Health Nurse Practitioner option. Current Alaska RN licensure.  
Special Fees.  
Provides a systematic approach to advanced physical, psychological, sociocultural, developmental, and spiritual assessment of individuals across the lifespan. Builds on basic health assessment knowledge and skills, laboratory and radiology interpretation, validation, documentation and analysis of assessment findings.

NS A610  Pharmacology for Primary Care  3 CR  
Contact Hours: 3 + 0  
Level Restriction: Must be Graduate - UAA level.  
Registration Restrictions: Concurrently enrolled in NS A661 or NS A671. Current license to practice as a registered nurse in the state of Alaska.  
Special Fees.  
Advanced level pharmacology course that assists health care professionals in the selecting, prescribing, and monitoring of pharmaceutical agents utilized in the primary care setting. Legend drugs, over-the-counter agents, and some complementary therapeutics will be discussed. Emphasis is on the pharmacodynamics of medications most commonly prescribed for the treatment of respiratory diseases, infections, genitourinary disease, preventive health, dermatological diseases, musculoskeletal conditions, cardiovascular diseases, depression and anxiety, and reproductive health.

NS A611  Psychopharmacology  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing or permission of instructor. Current licensure to practice as a registered nurse in Alaska.  
Special Fees.  
Focuses on psychopharmacological principles and therapeutic practices used to safely and effectively select, prescribe, and monitor psychotropic agents utilized in treating mental health problems and psychiatric disorders across the lifespan.

NS A618  Role Development in Advanced Practice Nursing  2 CR  
Contact Hours: 2 + 0  
Level Restriction: Must be Graduate - UAA level.  
Registration Restrictions: Graduate standing.  
Special Fees.  
Investigates the historical, political, social, legal, educational, and economic factors that have influenced the development of advanced nursing roles. Examines contemporary issues, including ethical and cultural considerations and their influence on practice environments. Differentiates the expanded roles of advanced practice nursing in a variety of health care and educational settings.

NS A619  Health Policy Issues in Advanced Practice Nursing  2 CR  
Contact Hours: 2 + 0  
Level Restriction: Must be Graduate - UAA level.  
Registration Restrictions: Graduate standing.  
Special Fees.  
Analyzes procedures by which governmental and private agencies make decisions that affect the health of populations. Explores the influence of lay, professional and special interest groups in relation to legislation, allocation of resources, and the setting of health priorities. Examines current issues in health policy, focusing on how policy is changed, interpreted, and implemented.

NS A620  Nursing Research Methods  4 CR  
Contact Hours: 4 + 0  
Level Restriction: Must be Graduate - UAA level.  
Registration Restrictions: Grade of C or better in undergraduate research course and basic statistics course. Graduate standing.  
Special Fees.  
Emphasizes critical appraisal and synthesis of research qualitative and quantitative literature. Provides for the acquisition of advanced knowledge and skills in scientific inquiry; including proposal development. Addresses the evidence-based approach to research utilization in advanced nursing practice.

NS A621  Knowledge Development for Advanced Nursing Practice  3 CR  
Contact Hours: 3 + 0  
Level Restriction: Must be Graduate - UAA level.  
Registration Restrictions: Graduate standing.  
Special Fees.  
Integrates theory from nursing and other disciplines to describe and explain human responses in health and illness. Critically analyzes theories for adequacy of conceptualization, measurement, and application. Theories include adaptation, illness prevention, health promotion, and change in relation to individuals, families, and populations.

NS A624  Qualitative Nursing Research  3 CR  
Contact Hours: 3 + 0  
Prerequisites: NS A620.  
Registration Restrictions: Graduate Standing.  
Special Fees.  
Focuses on qualitative paradigms, traditions, philosophical foundations and methods for studying nursing and health-related phenomena. Develops and critiques data collection processes and approaches to data analysis. Explores scientific and ethical issues surrounding qualitative research.
**NS A625**  
**Biostatistics for Health Professionals**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing or instructor permission. Undergraduate statistics course with a grade of C or better. Crosslisted with: HS A625. Special Fees: Principles of statistical reasoning and quantitative skills for analyzing health data. Topics include the binomial, Poisson, and normal distributions, the treatment of rates, measures of location and dispersion, and testing of statistical hypotheses. Both descriptive and inferential statistics are illustrated in mortality and morbidity problem sets requiring manual or computer assisted calculations. The comparison of methodological techniques and the choice of appropriate statistical methods to answer health research questions are stressed. This course is designed to enhance rather than substitute for statistical knowledge gained at the undergraduate level.

**NS A625L**  
**Biostatistics for Health Professionals Lab**  
1 CR  
Contact Hours: 0 + 3  
Prerequisites: (HS A625 or concurrent enrollment) or (NS A625 or concurrent enrollment). Registration Restrictions: Grade of C or better in undergraduate research and statistics. Graduate status or faculty permission. Grade Mode: Pass/No Pass. Crosslisted with: HS A625L.  
Introduction to statistical analysis using the Statistical Package for the Social Sciences (SPSS) computer program. Focuses on creating a database, evaluating these data for entry errors, identifying statistical test assumptions, and computing descriptive and inferential statistics.

**NS A626**  
**Principles of Epidemiology**  
3 CR  
Contact Hours: 3 + 0  
Level Restriction: Must be Graduate - UAA level. Registration Restrictions: Graduate standing or faculty permission. Crosslisted with: HS A626. Special Fees: Presents the study of patterns of disease and injury in human populations and the application of this study to the control of health problems. Introduces students to the basic principles and study designs of epidemiology. Covers the application of epidemiologic methods to the understanding of the occurrence and control of conditions such as infectious and chronic diseases, psychological and behavioral disorders, community and environmental health hazards, accidents, and genetic conditions.

**NS A631**  
**Family Nurse Practitioner I**  
2 CR  
Contact Hours: 1 + 4  
Registration Restrictions: Enrollment in a graduate degree or certificate program in the School of Nursing. Current immunization per SON policy; current CPR certification; individual malpractice insurance policy. Licensed as an advanced nurse practitioner in the State of Alaska with certification as a pediatric nurse practitioner. Preparation for the expanded role of family practice focus in primary care. Includes advanced history and physical assessment skills for clients of all ages with a focus on developing families and women. Clinical focus includes acquisition of skills and diagnostic evaluation methods required for management of clients. Principal clinical experiences will be in the primary care of women and childbearing families with a focus on wellness and prevention.

**NS A632**  
**Family Nurse Practitioner II**  
2 CR  
Contact Hours: 1 + 4  
Prerequisites: NS A631 and NS A633 with minimum grade of C. Registration Restrictions: Enrollment in a graduate degree or certificate program in the School of Nursing. Licensed as an advanced nurse practitioner in the State of Alaska with certification as a pediatric nurse practitioner. Current CPR certification; individual malpractice insurance policy; current immunization per SON policy. Continuing preparation for expansion to primary care of all ages. Includes advanced history and physical assessment skills for female clients of all ages with a continuing focus on developing families. Clinical focus includes acquisition of skills and diagnostic evaluation methods required for management of clients. Principal clinical experiences will be in the primary care of females and childbearing families with a focus on wellness, prevention, and primary care of common diseases.

**NS A636**  
**Family Nurse Practitioner II**  
2 CR  
Contact Hours: 1 + 4  
Prerequisites: NS A632. Registration Restrictions: Enrollment in a graduate degree or certificate program in the School of Nursing. Licensed as an advanced nurse practitioner in the State of Alaska with certification as a women's health nurse practitioner. Current CPR certification; individual malpractice insurance policy; current immunization per SON policy. Continuing preparation for expansion to primary care of all ages. Includes advanced history and physical assessment skills for clients of pediatric ages with a focus on developing families. Clinical focus includes acquisition of skills and diagnostic evaluation methods required for management of clients. Principal clinical experiences will be in the primary care of children and child-rearing families with a focus on wellness, prevention, and primary care of common diseases.

**NS A646**  
**Curriculum Development, Teaching, and Learning in Nursing**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Baccalaureate degree in Nursing. Undergraduate Research Methods or faculty permission. Special Fees: Application of critical thinking to the development of curricula for a variety of nursing education populations and settings. Incorporation of teaching and learning theories and evidence-based teaching strategies to instructional delivery within academic and clinical organizations. Students will design a learning environment for adult learners that addresses issues of diversity.

**NS A647**  
**Teaching Practicum in Nursing**  
3 CR  
Contact Hours: 1 + 7.5  
Prerequisites: EDAE A655 and EDAE A667 and NS A646. Registration Restrictions: Baccalaureate Degree in Nursing. Special Fees: Introduces skills necessary to function as beginning nurse educators in schools of nursing and clinical settings. Students enact the role of nurse-educator through a guided experience in both classroom and clinical nursing education at the associate and/or baccalaureate level of Nursing. An on-line seminar will assist in identification, analysis, and solution of teaching and learning problems related to the practicum.

**NS A658**  
**Public Health Policy**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing. Special Note: Offered as Demand Warrants. An analysis of the procedures by which government and private agencies make decisions that affect the health of population groups. The influence of lay, professional and special interest groups are explored in relation to health legislation, allocation of resources, and the setting of public health priorities. Current issues in public health policy are examined, focusing on how policy is changed, interpreted and implemented.

**NS A660**  
**Family Nurse Practitioner I**  
4/6 CR  
Contact Hours: 2 + 4 or 8 + 16  
Prerequisites: NS A602. Registration Restrictions: Admission to a graduate degree or certificate program in the School of Nursing. Current Alaska RN license; current CPR certification; current immunization per SON policy. Corequisite: NS A601. Special Fees: Beginning preparation for primary care. Includes advanced history and physical assessment skills for clients of all ages with a focus on developing families. Clinical focus includes acquisition of skills and diagnostic evaluation methods required for management of clients. Principal clinical experiences will be in the primary care of women, childbearing, and child-rearing families with a focus on wellness and prevention.

**NS A661**  
**Family Nurse Practitioner II**  
3/5 CR  
Contact Hours: 2 + 4 + 12  
Prerequisites: NS A660 with minimum grade of B. Registration Restrictions: Enrollment in a graduate degree or certificate program in the School of Nursing. Current Alaska RN license; current CPR certification; individual malpractice insurance policy; current immunization per SON policy. Post-Master’s Certificate students may take this course concurrently with NS A660. Special Fees: Special Note: For Post-Master’s Certificate students, licensure for advanced practice nurse in Alaska is required. Continuing preparation for expansion to primary care of all ages. Includes advanced history and physical assessment skills for pediatric and female clients of all ages with a focus on developing families. Clinical focus includes acquisition of skills and diagnostic evaluation methods required for management of clients. Principal clinical experiences will be in the primary care of infants, children, adolescents, females of all ages, and child-bearing families with a focus on primary care of common diseases.
COURSE DESCRIPTIONS

NS A662  Family Nurse Practitioner III  5 CR
Contact Hours: 2 + 12
Prerequisites: NS A661.
Registration Restrictions: Admission to a graduate degree or certificate program in the School of Nursing. Current Alaska RN license; current CPR certification; current immunization per SON policy.
Special Fees.

Continued preparation for advanced nursing practice. Assessment, diagnosis, and treatment and/or referral of clients with disorders of the cardiovascular, endocrine, gastrointestinal, respiratory, musculoskeletal, integumentary, and neurological systems. Recognition and management of infections and acute and chronic diseases. Primary focus is on adults and those with chronic diseases.

NS A663  Family Nurse Practitioner IV  2-6 CR
Contact Hours: 0 or 2 + 8 - 16
Prerequisites: NS A662.
Registration Restrictions: Admission to a graduate degree or certificate program in the School of Nursing. Current Alaska RN license; current CPR certification; current immunization per SON policy.

Summative preparation for advanced nursing practice. Assessment, diagnosis, and treatment or referral of clients with disorders of the cardiovascular, endocrine, gastrointestinal, respiratory, musculoskeletal, integumentary, and neurological systems. Prevention, recognition and management of infections and acute and chronic diseases, and care throughout the developmental stages of life. Includes care of clients throughout the lifespan.

NS A670  Advanced Psychiatric/Mental Health Nursing I  5 CR
Contact Hours: 4 + 4
Prerequisites: NS A601 and NS A602.
Registration Restrictions: Admission to graduate degree or certificate program in the School of Nursing. Current Alaska RN license; current CPR certification; current immunization per SON policy.

Introduces the psychiatric-mental health nurse practitioner role and entry-level competencies. Emphasizes interpersonal and diagnostic processes utilized in assessing and managing the care of individuals across the lifespan who are at risk of, or currently experiencing, mental health problems and psychiatric disorders. Evidence regarding the clinical basis and effectiveness of current treatment modalities is examined. Application focuses on developing counseling skills that foster therapeutic alliances and promote mental health and functional well-being.

NS A671  Advanced Psychiatric/Mental Health Nursing II  5 CR
Contact Hours: 3 + 8
Prerequisites: NS A670.
Registration Restrictions: Enrollment in a graduate degree or certificate program in the School of Nursing. Knowledge of basic anatomy/physiology and pharmacology; current Alaska RN license; current CPR certification; individual malpractice insurance policy; current immunization per SON policy.

Focuses on the theory, research, and clinical literature related to mental health assessment, intervention, and evaluation in families and groups. A social system perspective is used to examine intrinsic and extrinsic factors influencing the development of adaptive and maladaptive behavioral, emotional, and functional patterns in families and groups. Various theoretical approaches to therapeutic assessment and intervention with families and groups are explored through the counselor/therapist role, initially using case analysis and therapy simulations, followed by application in a clinical setting. Issues impacting the mental health of families are addressed.

NS A672  Advanced Psychiatric/Mental Health Nursing III  5 CR
Contact Hours: 2 + 12
Prerequisites: NS A671.
Registration Restrictions: Enrollment in a graduate degree or certificate program in the School of Nursing. Knowledge of basic anatomy/physiology and pharmacology. Current Alaska RN license; current CPR certification; individual malpractice policy; current immunization per SON policy.

Introduces the consultant/liaison role of advanced practice psychiatric-mental health nursing, with an emphasis on consultation in organizational settings. Consultation models are examined and linked to essential skill competencies. Historical and contemporary trends and organizational approaches to delivering population-focused mental health services are analyzed. Current fiscal and social policy statements and research findings are evaluated in terms of their implications for planning, implementing, and evaluating services for at-risk and culturally diverse populations.

NS A674  Advanced Psychiatric/Mental Health Nursing IV  5 CR
Contact Hours: 1 + 16
Prerequisites: NS A601 and NS A602 and NS A610 and NS A672.
Registration Restrictions: Enrollment in a graduate degree or certificate program in the School of Nursing. Knowledge of basic anatomy/physiology and pharmacology; current Alaska RN license; current CPR certification; individual malpractice insurance policy; current immunization per SON policy.

Special Fees.

Special Note: For Post-Master’s Certificate students, licensure for advanced practice nurse in Alaska is required.

Emphasizes continuing role development and refinement of advanced practice competencies. An intensive clinical practicum provides the context for the integration synthesis, and application of essential competencies to the care of a population (individuals, groups, families, and aggregates) at risk of or experiencing a mental disorder or impairment. Class will be developed to provide individual and group supervision and examining opportunities, challenges and issues related to the advanced practice role.

NS A681  Analysis of Health Services  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Baccalaureate degree or senior level (last semester) in baccalaureate program.

Special Fees.

Special Note: Offered as Demand Warrants.

Comprehensive overview of the evolution and major components of the health service system in the United States. System performance, directions being taken by major providers, characteristics of resources (financial, personnel, and technological), are discussed. Dimensions of policy making in health are also discussed.

NS A682  Administrative Services  3 CR
Contact Hours: 3 + 0
Prerequisites: NS A681 or concurrent enrollment.

Special Note: Offered as Demand Warrants.

Elements of administrative processes within the health care system. Personal and interpersonal competencies and maximization of resource allocation to optimize effective leadership and management are emphasized.

NS A682L  Administrative Services Field Work  1 CR
Contact Hours: 0 + 4
Prerequisites: (NS A682 or concurrent enrollment).

Registration Restrictions: RN licensure in Alaska.

Grade Mode: Pass/No Pass.

Special Note: Offered as Demand Warrants.

Elective clinical experience in application of administrative theory in health care settings. Students work directly with preceptor in the care setting.

NS A695  Practicum in Health Care Administration  4 CR
Contact Hours: 2 + 8
Prerequisites: NS A681 and PADM A610 and PADM A624 or [NS A681 and BA A632].

Special Note: Offered as Demand Warrants.

Seminar and practicum emphasizing integration and application of advanced administrative theory and skills.

NS A696  Individual Project  2 CR
Contact Hours: 1 + 3
Prerequisites: NS A618 and NS A619 and NS A620 and NS A610 and NS A625.

Level Restriction: Must be Graduate - UAA level.

Registration Restrictions: Enrollment in graduate nursing program.

Special Fees.

Special Note: Must be taken twice for credit for the Master of Science in Nursing degree.

Develops and implements a theory-based project in a clinical, educational or administrative setting. Identifies a topic of current concern within the specialty, reviews and synthesizes the relevant literature, examines and addresses a practice issue.

NS A699  Thesis  2 CR
Contact Hours: 1 + 3
Prerequisites: NS A618 and NS A619 and NS A620 and NS A621 and NS A625.

Level Restriction: Must be Graduate - UAA level.

Registration Restrictions: Enrollment in graduate nursing program.

Grade Mode: Pass/No Pass.

Special Fees.

Special Note: Must be taken twice for credit for the Master of Science in Nursing degree.

Develops, refines and implements a research proposal under the guidance of the thesis advisor and in conjunction with the thesis committee.

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NUPN - NURSING - PRACTICAL NURSING
Offered through the College of Health & Social Welfare
Professional Studies Building (PSB), Room 103, 786-4665
http://nursing.uaa.alaska.edu

NUPN A101 Fundamental Concepts and Skills for Practical Nursing 7 CR
Contact Hours: 7 + 0
Prerequisites: (NUPN A105 or concurrent enrollment).
Registration Restrictions: Admission to the Practical Nursing Certificate Program.
Corequisite: NUPN A101L.
Introduction of fundamental concepts of basic human needs, health-illness continuum, nursing process, therapeutic communication, and basic drug and diet therapy. Holistic care that meets the unique physical, mental, emotional, and spiritual health needs of the client and family is emphasized. Development of critical thinking skills and conscientious accountability for working in the practical nurse role within the health care system is emphasized.

NUPN A101L Fundamental Concepts and Skills for Practical Nurses Lab 5 CR
Contact Hours: 0 + 15
Prerequisites: (NUPN A105 or concurrent enrollment).
Registration Restrictions: Admission to the Practical Nursing Certificate Program.
Corequisite: NUPN A101.
Grade Mode: Pass/No Pass.
Special Fees.
Application of knowledge gained in NUPN A101 to the acquisition of nursing skills in the nursing skills laboratory and to the care of clients in the clinical practice setting.

NUPN A105 Human Anatomy and Function 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the Practical Nursing Certificate Program.
Corequisite: NUPN A101 and NUPN A101L.
Anatomy and Function of organs and systems within the human body. Students learn the basic structure and function of the human body. Students also learn derivation, application, and integration of appropriate terminology to anatomy, physiology, and pathophysiology. Provides a foundation for practical nurse clinical practice.

NUPN A110 Adult Medical-Surgical Nursing for Practical Nurses 5 CR
Contact Hours: 5 + 0
Prerequisites: NUPN A101 with minimum grade of C and NUPN A105 with minimum grade of C and NUPN A101L with minimum grade of P.
Registration Restrictions: Admission to the Practical Nursing Certificate Program.
Corequisite: NUPN A110L and NUPN A115.
Introduction to nursing care of the ill adult, using the nursing process as a unifying framework. Pathophysiology of common disorders, treatment options, including drug therapy and nursing care approaches are presented.

NUPN A110L Adult Medical-Surgical Nursing for Practical Nurses Lab 3 CR
Contact Hours: 0 + 9
Prerequisites: NUPN A101 with minimum grade of C and NUPN A105 with minimum grade of C and NUPN A101L with minimum grade of P.
Registration Restrictions: Admission to the Practical Nursing Certificate Program.
Corequisite: NUPN A110 and NUPN A115.
Grade Mode: Pass/No Pass.
Special Fees.
Application of knowledge gained in NUPN A110 to the acquisition of more advanced nursing skills and techniques for the care of adults experiencing medical-surgical illnesses.

NUPN A112 Mother-Baby Nursing for Practical Nurses 3 CR
Contact Hours: 3 + 0
Prerequisites: NUPN A101 with minimum grade of C and NUPN A105 with minimum grade of C and NUPN A101L with minimum grade of P.
Registration Restrictions: Admission to the Practical Nursing Certificate Program.
Corequisite: NUPN A112L.
Normal care during pregnancy, including prenatal and postpartum care, fundamental principles of labor and delivery and nursing care of the mother and newborn. The role of the practical nurse in teaching and health promotion to impact the health environment of the newborn through its early development is discussed.

NUPN A112L Mother-Baby Nursing for Practical Nurses Lab 2 CR
Contact Hours: 0 + 6
Prerequisites: NUPN A101 with minimum grade of C and NUPN A105 with minimum grade of C and NUPN A101L with minimum grade of P.
Registration Restrictions: Admission to the Practical Nursing Certificate Program.
Corequisite: NUPN A112.
Grade Mode: Pass/No Pass.
Special Fees.
Application of knowledge gained in NUPN A112 toward the acquisition of nursing skills for the care of childbearing women and newborn infants.

NUPN A113 Nursing of Children for Practical Nurses 3 CR
Contact Hours: 3 + 0
Prerequisites: NUPN A101 with minimum grade of C and NUPN A105 with minimum grade of C and NUPN A101L with minimum grade of P.
Registration Restrictions: Admission to the Practical Nursing Certificate Program.
Corequisite: NUPN A113L.
Application of nursing care knowledge, skills, and processes to infants, children, adolescents, and families experiencing illness. Includes concepts and characteristics of growth and cognitive and physical development. The role of play and the impact of events and actions on development of a child’s self-worth and caregiver teaching to prevent accidents and promote health are emphasized. Major health problems associated with each stage of growth and development and concepts in the care of the chronically ill and dying child are presented.

NUPN A113L Nursing of Children for Practical Nurses Lab 2 CR
Contact Hours: 0 + 6
Prerequisites: NUPN A101 with minimum grade of C and NUPN A105 with minimum grade of C and NUPN A101L with minimum grade of P.
Registration Restrictions: Admission to the Practical Nursing Certificate Program.
Corequisite: NUPN A113.
Grade Mode: Pass/No Pass.
Special Fees.
Application of knowledge gained in NUPN A113 to the acquisition of nursing skills for the care of infants, children, and adolescents.

NUPN A115 Concepts in Mental Health for Practical Nurses 1 CR
Contact Hours: 1 + 0
Prerequisites: NUPN A101 with minimum grade of C and NUPN A105 with minimum grade of C and NUPN A101L with minimum grade of P.
Registration Restrictions: Admission to the Practical Nursing Certificate Program.
Corequisite: NUPN A110 and NUPN A110L.
Grade Mode: Pass/No Pass.
Special Fees.
Basic theory and principles of mental health nursing care for clients experiencing psychiatric disorders or situational crisis. Includes identification of resources for mental health care and discussion of the inter-relationship between disorders of physical and mental health across the life span. The role of the practical nurse in mental illness is explored.

NUPN A116 Role Transition to LPN 1 CR
Contact Hours: 1 + 0
Prerequisites: NUPN A110 with minimum grade of C and NUPN A112 with minimum grade of C and NUPN A113 with minimum grade of C and NUPN A113L with minimum grade of P and NUPN A115L with minimum grade of P.
Registration Restrictions: Admission to the Practical Nursing Certificate Program.
Corequisite: NUPN A118L.
Grade Mode: Pass/No Pass.
Special Fees.
Exploration of attitudes and expectations of the LPN and current and future trends in nursing, including licensure, scope of practice, legal and ethical issues. Emphasis is on the need to work as a member of the health care team and on the responsibility of the practical nurse to engage in life-long learning. Designed to prepare the soon-to-graduate practical nurse to integrate concepts, knowledge, and skills into a coherent whole ready to assume the beginning practical nurse role in the employment setting.

NUPN A118L Integrated Clinical Practicum for Practical Nurses 2 CR
Contact Hours: 2 + 0
Prerequisites: NUPN A110 with minimum grade of C and NUPN A112 with minimum grade of C and NUPN A113 with minimum grade of C and NUPN A113L with minimum grade of C and NUPN A115L with minimum grade of P and NUPN A115L with minimum grade of P.
Registration Restrictions: Admission to the Practical Nursing Certificate Program.
Corequisite: NUPN A116.
Grade Mode: Pass/No Pass.
Special Fees.
Concentrated clinical work to facilitate the transition of the graduating practical nurse to the full practical nurse role.
NURS - NURSING

Offered through the College of Health & Social Welfare
Professional Studies Building (PSB), Room 110, 786-4582
http://nursing.uaa.alaska.edu

NURS A101  Introduction to Nursing  2 CR
Contact Hours:  2 + 0
Special Fees.

Provides an introduction to the nursing profession. Explores nursing history, current issues, roles and functions with special emphasis on communication skills and use of the nursing process as a method to provide systematic, holistic care for health needs of patients. Introduces the health-illness continuum and Maslow’s Hierarchy of Needs as a foundation for prioritizing patient needs and nursing care.

NURS A120  Nursing Fundamentals  3 CR
Contact Hours:  3 + 0
Prerequisites: (BIOL A111 with minimum grade of C or concurrent enrollment) and (ENGL A111 with minimum grade of C or concurrent enrollment) and (PSY A150 with minimum grade of C or concurrent enrollment).
Major Restriction: Must be Nursing major.
Registration Restrictions: Acceptance to first semester of Associate of Science Nursing Program.
Corequisite: NURS A120L.

Focuses on foundational nursing interventions principles and skills. Explores and utilizes nursing process as a method to identify and meet basic nursing care needs. Examines human responses in the healthy state and introduces concepts related to health disruptions. Emphasizes assessment based on developmental and cultural influences and prioritization of needs and interventions according to Maslow’s Hierarchy of Needs.

NURS A120L  Nursing Fundamentals Laboratory  4 CR
Contact Hours:  0 + 12
Prerequisites: (BIOL A111 with minimum grade of C or concurrent enrollment) and (ENGL A111 with minimum grade of C or concurrent enrollment) and (PSY A150 with minimum grade of C or concurrent enrollment).
Major Restriction: Must be Nursing major.
Registration Restrictions: Acceptance to Associate of Applied Science Nursing Program.
Corequisite: NURS A120.
Grade Mode: Pass/No Pass.
Special Fees.

Students practice and develop nursing interventions and skills utilizing foundational nursing principles from NURS A120. Nursing process is applied in campus lab and clinical settings as the method for identifying individual health needs and prioritizing needs and nursing care according to Maslow’s Hierarchy of Needs. Students assess, diagnose, plan, implement and evaluate nursing care with emphasis on developmentally appropriate and culturally sensitive nursing intervention. Focus is on predicted responses during a healthy state as well as beginning concepts related to health disruptions, and assisting patients toward health on the health-illness continuum.

NURS A125  Adult Nursing I  3 CR
Contact Hours:  3 + 0
Prerequisites: BIOL A111 with minimum grade of C and (BIOL A112 with minimum grade of C or concurrent enrollment) and (BIOL A240 with minimum grade of C or concurrent enrollment) and ENGL A111 with minimum grade of C and NURS A120 with minimum grade of C and NURS A120L with minimum grade of P and PSY A150 with minimum grade of C.
Major Restriction: Must be Nursing major.
Registration Restrictions: Current admission to second semester AAS nursing program.
Corequisite: NURS A125L and NURS A180.

Focuses on use of nursing process in providing care for adult patients experiencing chronic health disruptions that respond predictably to established nursing and healthcare regimens. Emphasizes the patho-physiologic basis of disease, treatment options and nursing care for patients based on stages of adult development, and prioritized using Maslow’s Hierarchy of Needs. Includes specific focus on health needs and care of the aging adult.

NURS A125L  Adult Nursing I Laboratory  4 CR
Contact Hours:  0 + 12
Prerequisites: BIOL A111 with minimum grade of C and (BIOL A112 with minimum grade of C or concurrent enrollment) and (BIOL A240 with minimum grade of C or concurrent enrollment) and ENGL A111 with minimum grade of C and NURS A120 with minimum grade of C and NURS A120L with minimum grade of P and PSY A150 with minimum grade of C.
Major Restriction: Must be Nursing major.
Registration Restrictions: Current admission to second semester AAS nursing program.
Corequisite: NURS A125 and NURS A180.

Grade Mode: Pass/No Pass.
Special Fees.

Provides an introduction to drug therapy with an emphasis on basic pharmacology principles, drug classifications and actions, correct dosages, methods of administration, and evaluation of patient responses across the lifespan. Nursing process is used to determine appropriate pharmacologic intervention and Maslow’s Hierarchy of Needs is applied to identify priorities for care of patients receiving medications.

NURS A180  Basic Nursing Pharmacology  3 CR
Contact Hours:  3 + 0
Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and BIOL A111 with minimum grade of C and BIOL A122 with minimum grade of C or concurrent enrollment) and (BIOL A240 with minimum grade of C or concurrent enrollment) and ENGL A111 with minimum grade of C and PSY A150 with minimum grade of C.
Major Restriction: Must be Nursing major.
Registration Restrictions: Current admission to second semester of Associate of Applied Science Nursing Program.
Corequisite: NURS A125 and NURS A125L.
Special Fees.

Provides an introduction to drug therapy with an emphasis on basic pharmacology principles, drug classifications and actions, correct dosages, methods of administration, and evaluation of patient responses across the lifespan. Nursing process is used to determine appropriate pharmacologic intervention and Maslow’s Hierarchy of Needs is applied to identify priorities for care of patients receiving medications.

NURS A220  Perinatal Nursing  3 CR
Contact Hours:  3 + 0
Prerequisites: BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and (DN A203 with minimum grade of C or concurrent enrollment) and ([ENGL A211 with minimum grade of C or concurrent enrollment] or (ENGL A212 with minimum grade of C or concurrent enrollment)] and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C.
Major Restriction: Must be Nursing major.
Registration Restrictions: Current admission to third semester AAS nursing program.
Completion of one social science elective with a minimum grade of C or concurrent enrollment.
Corequisite: NURS A220L, NURS A221, NURS A222 and NURS A222L.

Focuses on use of nursing process to provide healthcare for the childbearing woman, newborn, and family along the health-illness continuum. Content ranges from normal, low-risk perinatal care through nursing care for selected high-risk perinatal complications. Includes antepartum, intrapartum, postpartum, and low-risk neonatal nursing care with emphasis on developmental and cultural influences upon the health needs of the childbearing family and prioritizing using Maslow’s Hierarchy of Needs.
NURS A220L Perinatal Nursing Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and (DN A203 with minimum grade of C or concurrent enrollment) and ([ENGL A211 with minimum grade of C or concurrent enrollment] or (ENGL A212 with minimum grade of C or concurrent enrollment)) and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C. Major Restriction: Must be Nursing major.
Registration Restrictions: Current admission as third semester AAS Nursing student. Completion of one social science elective with a minimum grade of C or concurrent enrollment.
Corequisite: NURS A220, NURS A221, NURS A222 and NURS A222L. Grade Mode: Pass/No Pass.
Special Fees.
Provides clinical experiences to reinforce learning in NURS A220. Students use nursing process as they provide care for the childbearing women, newborn, and family along the health-illness continuum and prioritize using Maslow's Hierarchy of Needs. Clinical experiences occur in selected acute and ambulatory perinatal care settings with focus on providing developmentally and culturally sensitive nursing care for low-risk and selected high-risk perinatal patients and their families. Students are expected to demonstrate competence in performance of psychomotor and critical thinking skills while providing care for two or more patients, including discharge planning.

NURS A221 Advanced Parenteral Therapy Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and (DN A203 with minimum grade of C or concurrent enrollment) and ([ENGL A211 with minimum grade of C or concurrent enrollment] or (ENGL A212 with minimum grade of C or concurrent enrollment)) and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C. Major Restriction: Must be Nursing major.
Registration Restrictions: Current admission to third semester AAS nursing program. Completion of one social science elective with a minimum grade of C or concurrent enrollment.
Special Fees.
Lab-based course where students apply nursing process and knowledge of intravenous (IV) therapy, nutritional support, and pain management learned in previous nursing courses, to advanced concepts in the management of therapeutic interventions administered via the parenteral route. Emphasizes theoretical content and psychomotor skills related to advanced intravenous and parenteral therapies along the health-illness continuum, across the lifespan and applicable in multiple healthcare settings. Utilizes presentation, seminar, demonstration, supervised practice, return demonstration, and directed self-learning.

NURS A222 Pediatric Nursing 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and (DN A203 with minimum grade of C or concurrent enrollment) and ([ENGL A211 with minimum grade of C or concurrent enrollment] or (ENGL A212 with minimum grade of C or concurrent enrollment)) and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C. Major Restriction: Must be Nursing major.
Registration Restrictions: Current admission to third semester AAS nursing program. Completion of one social science elective with a minimum grade of C or concurrent enrollment.
Corequisite: NURS A220, NURS A220L, NURS A221 and NURS A222L.
Focuses on the use of the critical thinking and nursing process in providing developmentally and culturally appropriate nursing care for children, along with their families, from birth through adolescence. Emphasizes normal growth and development as well as acute and chronic alterations in health and development along the health-illness continuum and prioritized according to Maslow's Hierarchy of Needs.

NURS A222L Pediatric Nursing Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and (DN A203 with minimum grade of C or concurrent enrollment) and ([ENGL A211 with minimum grade of C or concurrent enrollment] or (ENGL A212 with minimum grade of C or concurrent enrollment)) and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C. Major Restriction: Must be Nursing major.
Registration Restrictions: Current admission as third semester AAS Nursing Program. Completion of one social science elective with a minimum grade of C or concurrent enrollment.
Corequisite: NURS A220, NURS A220L, NURS A221 and NURS A222L.
Focuses on the use of the critical thinking and nursing process in providing developmentally and culturally appropriate nursing care for children, along with their families, from birth through adolescence. Emphasizes normal growth and development as well as acute and chronic alterations in health and development along the health-illness continuum and prioritized according to Maslow's Hierarchy of Needs.

NURS A225 Adult Nursing II 3 CR
Contact Hours: 3 + 0
Prerequisites: NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A221 with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C. Major Restriction: Must be Nursing major.
Registration Restrictions: Current admission to fourth semester AAS Nursing Program. Complete one oral communication elective and one GER elective with minimum grade of C (may be concurrent). Complete one social science elective with minimum grade of C (prerequisite).
Corequisite: NURS A225L, NURS A230, NURS A250L and NURS A255.
Focuses on nursing process and care of the adult medical-surgical patient with acute, complex and life-threatening disorders along the health-illness continuum and based on adult developmental considerations. Emphasis continues on the prioritization of healthcare needs and nursing interventions utilizing critical thinking and Maslow's Hierarchy of Needs.

NURS A225L Adult Nursing II Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A221 with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C. Major Restriction: Must be Nursing major.
Registration Restrictions: Current admission to fourth semester AAS Nursing Program. Complete one oral communication elective and one GER elective with minimum grade of C (may be concurrent). Complete one social science elective with minimum grade of C (prerequisite).
Corequisite: NURS A225, NURS A250, NURS A250L and NURS A255.
Grade Mode: Pass/No Pass.
Special Fees.
Provides clinical learning experiences in care of the adult medical-surgical patient with acute, complex and life-threatening disorders along the health-illness continuum. Includes experiences in delegation and management of nursing care for small groups of patients.

NURS A250 Psychiatric Nursing 3 CR
Contact Hours: 2 + 2
Prerequisites: DN A203 with minimum grade of C and [ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C] and NURS A220 with minimum grade of C and NURS A220L with minimum grade of P and NURS A221 with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of P. Major Restriction: Must be Nursing major.
Registration Restrictions: Current admission to fourth semester of AAS nursing program. Completion of one social science elective with a minimum grade of C, plus completion of one oral communication course and one additional GER course with minimum grade of C or concurrent enrollment.
Corequisite: NURS A225, NURS A225L, NURS A250L and NURS A255.
Focuses on the psychodynamics of the major mental illnesses and principles of psychiatric nursing across the lifespan. Seminar emphasizes the application of nursing process and Maslow's Hierarchy of Needs along with adapting communication strategies to facilitate therapeutic intervention with patients who are experiencing mental health needs across the health-illness continuum and at varying developmental stages.
OSH A101  Introduction to Occupational Safety and Health  3 CR  
Contact Hours:  3 + 0  
Introduces regulatory, consensus, environmental and industrial standards applicable to the occupational safety and health profession. Examines the role of the safety professional and the philosophy of safety and health in the workplace.

OSH A108  Injury Prevention and Risk Management  4 CR  
Contact Hours:  3 + 2  
Identifies safety, health management, and incident prevention in the workplace. Emphasizes materials handling, electrical and machine safety, first response to fire and medical emergencies, safety and health hazards, and accident prevention.

OSH A110  Program Assessment, Development, and Implementation  4 CR  
Contact Hours:  4 + 0  
Prerequisites: OSH A108.  
Examines the role of a safety program in the workplace. Emphasizes program assessment, design, development, implementation, and evaluation of safety programs.

OSH A112  Introduction to Injury Epidemiology  3 CR  
Contact Hours:  3 + 0  
Prerequisites: MATH A105 and OSH A108.  
Introduces the principles of epidemiology and how they pertain to injury prevention. Stresses the collection of data, principles of injury prevention, and data evaluation.

OSH A120  Safety Program Management and Recordkeeping  3 CR  
Contact Hours:  3 + 0  
Prerequisites: (OSH A101 or concurrent enrollment) and OSH A108.  
Discusses the role of safety in business and government. Emphasizes the philosophy of safety and health efforts by management. Examines the role of the safety professional, the types of safety management systems utilized in the workplace, and the need for accurate recordkeeping.

OSH A180  Introduction to Industrial Hygiene  4 CR  
Contact Hours:  3 + 2  
Prerequisites: OSH A101.  
Identifies acute and chronic health effects of exposures to chemical, physical, and biological agents in the workplace. Emphasizes types of exposures and biological effects, exposure guidelines, and basic workplace monitoring.

OSH A201  Workplace Injury and Incident Evaluations  4 CR  
Contact Hours:  4 + 0  
Prerequisites: OSH A108.  
Assesses and evaluates workplace hazards. Investigates worker complaints and actual health and safety incidents. Includes practical applications and basic accident investigation.

OSH A210  Training Needs and Methods  3 CR  
Contact Hours:  3 + 0  
Prerequisites: OSH A110.  
Evaluates safety and health training needs in the workplace. Emphasizes safety and health training needs and regulatory compliance.

OSH A230  Principles of Ergonomics  3 CR  
Contact Hours:  2 + 2  
Prerequisites: BIOL A100 and OSH A201.  
Examines workplace ergonomics, emphasizing types and sources of physiological stressors and their mitigation.

OSH A240  Workplace Monitoring: Instrumentation and Calibration  3 CR  
Contact Hours:  2 + 2  
Prerequisites: OSH A180.  
Examines the equipment used in performing measurements of environmental factors in the workplace, including noise, lighting, vibration, chemicals, and heat stress. Emphasizes equipment and methods, equipment calibration, and evaluation of environmental factors found in Alaskan workplaces.

OSH A250  Hazardous Material Operation  3 CR  
Contact Hours:  2 + 2  
Prerequisites: OSH A180.  
Identifies the policies, procedures and equipment needed to deal with hazardous material. Emphasizes the types of hazards, planning, organization, and training needed to work safely with hazardous material.

PADM A601  Introduction to Public Administration  3 CR  
Contact Hours:  3 + 0  
Special Note: Offered Fall and Spring Semesters.  
Introduction to the field of public administration. Deals with the scope, nature, history, current context, and basic tools in the study of public administration. Topics covered include social, economic, and political environments of public administration, and comparative administration, bureaucratic politics, power and authority, law, ethics and administration, basic models, and comparative administration.
PADM A602 Seminar in Public Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Special Note: Offered Spring Semesters.
Introduction to basic management skills as well as concepts, approaches, and issues in organization structure, human resources administration, and budgeting and finance administration.

PADM A603 Management Analysis 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Special Note: Offered Fall Semesters.
Introduction to organizational and systems analysis, systems theory, information systems, procedure analysis, management planning, and management problem solving.

PADM A604 Research Methods in Administration 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Introductory course in statistics.
Special Note: Offered Spring Semesters.
Methods and techniques of empirical research. Scientific method, design of research, data collection and analysis methods, survey sampling, and statistical analysis including use of computers in data analysis.

PADM A606 The Policymaking Process 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Special Note: Offered Spring Semesters.
Examination of the nature of public policy and the policymaking process. Considers the policy environment, levels and types of policy, models of the policy process, the uses of social science research in policymaking, and the role and limits of public participation. Alaska and national cases are used to illustrate basic concepts and issues.

PADM A610 Organizational Theory and Behavior 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: Offered Spring Semesters.
Role of the administrator, theories of complex organizations and their administration, administrative leadership, and ethics. A detailed study of organized behavior, including concepts of leadership style, authority, and organizational change.

PADM A618 Public Accountability, Ethics and Law 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
The challenges of maintaining a responsive bureaucracy subject to democratic controls; implications of ethical standards and administrative due process of law; and selected case studies in government and non-profit administration.

PADM A620 Internship in Public Administration/Policy 1-3 CR
Contact Hours: 0 + 4:12
Registration Restrictions: Faculty permission.
Special Note: Offered as Demand Warrants.
Applied work experience in public administration or policy analysis. The course consists of the equivalent of three months of full-time work in an approved state, federal, local, or private agency, under the supervision of a senior agency employee in cooperation with a faculty advisor. An internship journal and a final internship report are required.

PADM A624 Human Resources Administration 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Special Note: Offered Fall Semesters.
Fundamental human resource topics dealing with problems in private and public sectors from an interdisciplinary viewpoint. Current and future development in selection and placement, classification and compensation, training and development, collective bargaining and managerial behavior, performance and effectiveness will be examined.

PADM A628 Administration of Financial Resources 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Special Note: Offered Spring Semesters.
Public financial organization, problems of financial management in government units, revenue sources, budgetary planning and control, methods of debt financing and intergovernmental relationships.

PADM A632 Policy Analysis 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission. PADM A604 recommended.
Special Note: Offered as Demand Warrants.
Quick methods for policy analysis, emphasizing analytic thinking to narrow and focus the decision problem, and quantitative and qualitative techniques to generate insight from information. Covers basic steps in the analytic process, and methods including legal research, decision analysis, and interpreting regressions. Exercises are from contemporary Alaska policy issues.

PADM A640 Alternative Dispute Resolution 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Faculty permission, based on substantial completion of MPA program. The core comprehensive exam must be passed before the student may enroll in the capstone course.
Special Note: Offered as Demand Warrants.
Capstone course for master of public administration program. Includes in-depth discussions of case studies illustrating problems of organizational change, decision making, problem solving, and the interrelated processes of policy formulation, implementation, and evaluation. Emphasis on student participation, including presentation of a major policy or administrative report.

PADM A659 Public Administration Capstone 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Analysis of selected public administration issues. Topics will be announced in the published class schedule.

PADM A688 Program Evaluation and Performance Measurement 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing; one undergraduate or graduate statistics course; PADM A604 recommended.
Covers theory and practice of program evaluation and performance measurement. Course topics include: needs assessment techniques, an understanding of program logic models, research designs for program evaluation, qualitative and quantitative evaluation approaches, and cost benefit analysis. Development of performance measures, ethics and communicating findings are also covered.

PARL - PARALEGAL STUDIES

Offered through the College of Health & Social Welfare Consortium Library (LIB), Room 213, 786-1810. http://justice.aaa.alaska.edu

PARL A101 Introduction to Law 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Social Sciences Requirement.
Survey course introduces legal processes in a democratic society. Emphasis on legal terminology, federal and state court systems, and judicial decision making. Introduction to basic concepts of contracts, torts, criminal law, family law, and administrative law. Includes introduction to skills for conducting basic legal analysis.

PARL A215 Paralegal Studies 3 CR
Contact Hours: 3 + 0
Special Note: Offered Fall and Spring Semesters.
Foundation course for legal studies area. Explores role, responsibilities, and ethics of paralegal activities and relationship of paralegals to lawyers. Study of paralegal responsibilities including statute and regulation formats, litigation, insurance, probate and real estate. Covers interviewing, investigation, writing and application of social science techniques to paralegal problems.

PARL A235 Factual Investigation and Interviewing 2 CR
Contact Hours: 2 + 0
Prerequisites: PARL A101 and PARL A215.
Special Note: Offered Spring Semesters.
Study of the fundamentals of investigation. Some investigation and recording, collection and preservation of physical evidence and scientific aids. Sources of information, interviews, follow-up and case preparation.
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<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>PARL A236</td>
<td>Ethics and Paralegals</td>
<td>1 CR</td>
<td>Course deals systematically with nine canons of the American Bar Association as they address practical problems of legal assistants who work under the supervision of attorneys. Focus upon rules and opinions directed at the practitioners of law in Alaska. Discussion of regulation by bar associations and attorneys.</td>
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<tr>
<td>PARL A238</td>
<td>Civil Procedure</td>
<td>3 CR</td>
<td>Introduction to procedural concepts of civil litigation with an emphasis on jurisdiction, venue, service of process, parties, pleading and discovery, trial procedures, appellate review, and the common law doctrine of res judicata. Types of pleadings in civil actions, including complaints, answer and reply, joinder of parties and claims, class actions, discovery, motion practice, trial, and appeal.</td>
<td>Contact Hours: 3 + 0; Prerequisites: PARL A101; Special Note: Offered Spring Semesters.</td>
</tr>
<tr>
<td>PARL A256</td>
<td>Legal Research I</td>
<td>3 CR</td>
<td>Comprehensive study of federal and state statutes and judicial doctrines governing familial relationships. Emphasis on marriage, divorce, child custody, support, property rights, adoption, and child protection. The impact of the Indian Child Welfare Act in Alaska family law is explored.</td>
<td>Contact Hours: 3 + 0; Prerequisites: [PARL A101 or JUST A110] and ENGL A111 with minimum grade of B and [ENGL A211 with minimum grade of B or ENGL A212 with minimum grade of B or ENGL A213 with minimum grade of B or ENGL A311 with minimum grade of B or ENGL A312 with minimum grade of B or ENGL A414 with minimum grade of B]; Special Fees.</td>
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<tr>
<td>PARL A252</td>
<td>Substantive Criminal Law</td>
<td>3 CR</td>
<td>Study of elements, purposes, and functions of substantive criminal law. Includes casebook study of general law of crimes and defenses with concentration on Alaska cases and statutes in Alaska Criminal Code. Historical and philosophical concepts are covered.</td>
<td>Contact Hours: 3 + 0; Prerequisites: JUST A110 or PARL A101; Crosslisted with: JUST A352; Special Note: Offered Fall Semesters.</td>
</tr>
<tr>
<td>PARL A354</td>
<td>Criminal Procedure</td>
<td>3 CR</td>
<td>Emphasis upon legal limitations of police and right of people to be secure from government under protection of federal and Alaska constitutions. Concentration on laws of arrest, search and seizure, wiretapping, electronic surveillance, and exclusionary rule. Interrogations and confessions, lineups and other pretrial identification procedures, right to counsel, trial by jury, entrapment, and double jeopardy. Study of cases decided by U.S. and Alaska Supreme Courts, along with applicable Alaska Statutes and Alaska Rules of Criminal Procedure.</td>
<td>Contact Hours: 3 + 0; Prerequisites: PARL A101 or JUST A110; Crosslisted with: JUST A354; Special Note: Offered Spring Semesters.</td>
</tr>
<tr>
<td>PARL A362</td>
<td>Commercial Law</td>
<td>3 CR</td>
<td>Commercial law concerns rules of the paralegal's role in a commercial practice with emphasis on such topics as contracts, remedies, bankruptcy, business formation and organization.</td>
<td>Contact Hours: 3 + 0; Prerequisites: PARL A101; Special Note: Offered Spring Semesters.</td>
</tr>
<tr>
<td>PARL A375</td>
<td>Litigation</td>
<td>3 CR</td>
<td>Intensive study of range of paralegal tasks associated with matters in litigation, from conducting the initial client interview through perfecting an appeal and collecting a judgment. Includes extensive coverage of principles of evidence. Procedures for alternative dispute resolution are also addressed. Requires active student participation in preparing a hypothetical case for trial, and culminates in a student presentation of a mock trial. Individual production of a comprehensive litigation systems binder, comprising student-drafted checklists, forms, and practice tips, is required. Student participation is premised on a solid foundation in civil procedure and legal research.</td>
<td>Contact Hours: 3 + 0; Prerequisites: PARL A238; Special Fees.</td>
</tr>
<tr>
<td>PARL A456</td>
<td>Advanced Legal Analysis and Writing</td>
<td>4 CR</td>
<td>Extensive research and written work applying legal principles to assigned fact patterns. Develops students' ability to perform objective written evaluations of legal issues in legal memoranda as well as persuasive advocacy in formal briefs.</td>
<td>Contact Hours: 3 + 3; Prerequisites: ENGL A111 with minimum grade of B and [ENGL A211 with minimum grade of B or ENGL A212 with minimum grade of B or ENGL A213 with minimum grade of B or ENGL A311 with minimum grade of B or ENGL A312 with minimum grade of B or ENGL A414 with minimum grade of B]; Special Fees.</td>
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</table>

**PEP - PHYSICAL EDUCATION PROFESSIONAL**

*Offered through the Community and Technical College*

**Eugene Short Hall (ESH)**, Room 125, 786-4083

**www.uaa.alaska.edu/ctc/hper**

<table>
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<tbody>
<tr>
<td>PEP A103</td>
<td>SCUBA</td>
<td>2 CR</td>
<td>Introduces skills for open water snorkeling and SCUBA diving. Emphasizes selection and use of specialized equipment, hyperbaric theory, proper planning, diving rescue skills, use of recreational dive tables and first-aid specific to the activity. Heavy emphasis placed on hazard assessment and safety issues.</td>
<td>Contact Hours: 1.5 + 1; Special Fees.</td>
</tr>
<tr>
<td>PEP A110</td>
<td>Remote First Aid</td>
<td>1 CR</td>
<td>Provides CPR (infant, child, and adult) and first aid training. Successful completion of performance skills and written test will lead to national certification in first aid and CPR.</td>
<td>Contact Hours: .5 + 1; Grade Mode: Pass/No Pass; Special Fees.</td>
</tr>
<tr>
<td>PEP A115</td>
<td>Introduction to Fitness Leadership</td>
<td>3 CR</td>
<td>Introduces basics of cardiorespiratory, metabolic, neuromuscular, environmental exercise physiology, biomechanics and kinesiology in regard to safe exercise. Designed for individuals interested in working in the fitness industry as a fitness instructor or personal trainer.</td>
<td>Contact Hours: 3 + 0; Special Fees.</td>
</tr>
</tbody>
</table>
**PEP A116** Techniques in Fitness Instruction I 2 CR  
Contact Hours: 1 + 2  
Special Fees.  
Introduces basic exercise program planning and progression, testing techniques, high risk exercises, music selection, choreography, and teaching techniques. Conducted in a classroom and lab setting for hands-on experience.

**PEP A117** Techniques in Personal Training I 2 CR  
Contact Hours: 1 + 2  
Special Fees.  
Introduces techniques for client assessment, exercise program planning and progression, high risk exercises, proper use of variable resistance equipment, teaching techniques, and injury prevention. Designed for individuals interested in working in the fitness industry as a personal trainer. Conducted in a classroom and lab setting for hands-on experience.

**PEP A130** Introduction to Coaching 3 CR  
Contact Hours: 3 + 0  
Special Fees.  
Special Note: Successful completion results in eligibility for certification as a high school coach in Alaska.  
Introduces the history, philosophies, objectives and foundations of health, physical education, and recreation. Surveys career and professional development opportunities.

**PEP A161** Wilderness First Responder 4 CR  
Contact Hours: 2 + 4  
Special Fees.  
Special Note: Students will be awarded nationally recognized WFR certificate upon successful completion of course and other certification requirements.  
Provides knowledge and skills necessary to administer emergency and medical care in non-urban environments. Covers basic anatomy and physiology, assessment and treatment of injuries, appropriate short-term to multi-day patient care and evacuation considerations.

**PEP A181** Introduction to Health, Physical Education and Recreation 3 CR  
Contact Hours: 3 + 0  
Special Note: A field outing may be required.  
Introduces the history, philosophies, objectives and foundations of health, physical education, and recreation. Surveys career and professional development opportunities.

**PEP A207** Emergency Water Safety 2 CR  
Contact Hours: 1 + 2  
Special Fees.  
Special Note: Prior to admission in this course, students must be able to swim 200 yards (crawl or breast stroke), foot first surface dive, retrieve a 10lb brick from 12ft depth, and tread water for two minutes using legs only.  
Presents professional lifeguard training to prevent, recognize, and manage aquatic emergencies. Successful completion can result in a WSI certification.

**PEP A208** Water Safety Instructor Training 3 CR  
Contact Hours: 2 + 2  
Prerequisites: PER A135.  
Special Fees.  
Presents the knowledge and skills necessary for instructor candidates to teach a wide variety of aquatic programs, including water safety classes. Successful completion can result in a WSFI certification.

**PEP A210** Wilderness Emergency Medical Technician 4 CR  
Contact Hours: 2 + 4  
Prerequisites: EMT A130.  
Special Note: Students are required to obtain BLS Provider CPR certificate before end of course. Students in possession of current EMT will be awarded nationally recognized WEMT certificate upon successful completion of course.  
Provides knowledge and skills necessary to apply emergency medical training in non-rapid-transport settings. Emphasizes general medicine, trauma, environmental medicine and wilderness rescue. Provides opportunity for critical thinking, application of skills and evacuation decision-making.

**PEP A215** Issues in Fitness Leadership 3 CR  
Contact Hours: 3 + 0  
Prerequisites: PEP A115.  
Special Fees.  
Presents concepts of personally tailored fitness programs for a wide variety of individuals, including those with common health challenges. Provides information on nutrition and weight loss, injury prevention, basic emergency procedures, legal issues, and professional responsibilities of fitness instructors and personal trainers.

**PEP A217** Techniques in Personal Training II 2 CR  
Contact Hours: 1 + 2  
Prerequisites: PEP A116.  
Special Fees.  
Examines a wide range of issues related to exerciser’s varied needs. Presents techniques for program implementation, music selection, choreography and teaching exercise techniques for exercisers with special needs. Conducted in a classroom and lab setting for hands-on experience.

**PEP A218** Techniques in Aqua Fitness Instruction 2 CR  
Contact Hours: 1 + 2  
Prerequisites: PEP A116.  
Special Fees.  
Presents principles of exercise in water, pool safety, deck versus water instruction, requirements of a water exercise instructor, designing a water exercise class, and use of equipment. Conducted in a classroom and lab setting for hands-on experience.

**PEP A233** Coaching Track & Field and Running 2 CR  
Contact Hours: 1 + 1  
Prerequisites: PER A135.  
Special Fees.  
Introduces track & field and running coaching techniques including creating a physical conditioning plan, developing skills, and handling competitive events.

**PEP A234** Coaching Wrestling 2 CR  
Contact Hours: 1 + 1  
Prerequisites: PER A135.  
Special Fees.  
Introduces wrestling coaching techniques, including creating a physical conditioning plan, developing skills, and handling competitive events.

**PEP A235** Coaching Swimming and Diving 2 CR  
Contact Hours: 1 + 1  
Prerequisites: PER A135.  
Special Fees.  
Introduces swimming and diving coaching techniques, including creating a physical conditioning plan, developing skills, and handling competitive events.

**PEP A236** Coaching Skiing 2 CR  
Contact Hours: 1 + 1  
Special Fees.  
Introduces Nordic and alpine skiing coaching techniques, including creating a physical conditioning plan, developing skills, and handling competitive events.

**PEP A237** Coaching Figure Skating 2 CR  
Contact Hours: 1 + 1  
Prerequisites: PER A137.  
Introduces figure skating coaching techniques, including creating a physical conditioning plan, developing skills, and handling competitive events.

**PEP A238** Coaching Gymnastics 2 CR  
Contact Hours: 1 + 1  
Introduces gymnastics coaching techniques, including creating a physical conditioning plan, developing skills, and handling competitive events.
Course Descriptions

PEP A239 Coaching Baseball/Softball 2 CR
Contact Hours: 1.5 + 1
Special Fees.
Introduces baseball/softball coaching techniques, including creating a physical conditioning plan, developing skills, and handling competitive events.

PEP A240 Coaching Football 2 CR
Contact Hours: 1.5 + 1
Introduces football coaching techniques, including creating a physical conditioning plan, developing skills, and handling competitive events.

PEP A241 Coaching Basketball 2 CR
Contact Hours: 1.5 + 1
Prerequisites: PER A141.
Special Fees.
Introduces basketball coaching techniques, including creating a physical conditioning plan, developing skills, and handling competitive events.

PEP A242 Coaching Soccer 2 CR
Contact Hours: 1.5 + 1
Prerequisites: PER A142.
Special Fees.
Introduces soccer coaching techniques, including creating a physical conditioning plan, developing skills, and handling competitive events.

PEP A243 Coaching Hockey 2 CR
Contact Hours: 1.5 + 1
Prerequisites: PER A143.
Introduces hockey coaching techniques, including creating a physical conditioning plan, developing skills, and handling competitive events.

PEP A244 Coaching Volleyball 2 CR
Contact Hours: 1.5 + 1
Prerequisites: PER A144.
Special Fees.
Introduces volleyball coaching techniques, including creating a physical conditioning plan, developing skills, and handling competitive events.

PEP A251 Prevention and Care of Activity-Related Injuries 3 CR
Contact Hours: 2 + 2
Prerequisites: BIOL A111 and BIOL A112.
Special Fees.
Special Note: Field work is required.
Introduces the profession of athletic training. Examines theories and practices in preventing, recognizing, and treating common activity-related injuries.

PEP A262 Foundations of Adventure and Experiential Leadership 3 CR
Contact Hours: 3 + 0
Introduces the field and profession of adventure and experiential leadership. Examines philosophical, historical, theoretical, legal, and ethical foundations of the field. Explores career opportunities and options.

PEP A281 Leadership in Activities for Diverse Populations 2 CR
Contact Hours: 1 + 2
Special Fees.
Examines key concepts and presents a variety of activities adapted to meet the needs of diverse populations. Presents information and current research related to various disabilities. Examines and applies strategies for promoting physical activity experiences for individuals with special needs.

PEP A282 Leadership in Experiential Initiatives and Activities 2 CR
Contact Hours: 1 + 2
Examines key concepts and activities for facilitating experiential leadership, teambuilding, and personal growth initiatives. Presents a variety of game types, including those designed as icebreakers, de-inhibitors, team-builders, for cognitive development and for character development. Introduces planning, preparation, props, techniques, leadership, and safety, with an emphasis on facilitation and de-briefing.

PEP A283 Leadership in Aquatic Activities 2 CR
Contact Hours: 1 + 2
Special Fees.
Examines key concepts associated with aquatic activities. Presents a variety of motor skill themes and movement concepts in a progression from the precontrol level to the proficiency level. Presents a variety of water activities.

PEP A284 Leadership in Fitness Activities 2 CR
Contact Hours: 1 + 2
Special Fees.
Examines key concepts associated with fitness activities. Presents a variety of topics and activities designed to promote lifetime physical fitness. Evaluates and applies strategies for promoting positive behavior changes for personal health and wellness.

PEP A285 Leadership in Team Activities 2 CR
Contact Hours: 1 + 2
Special Fees.
Examines key concepts and activities associated with team activities. Presents a variety of motor skill themes and movement concepts in a progression from the precontrol to the proficiency level. Examines preparation for game play through the combining of skills, using skills in more complex ways, and utilizing offensive and defensive strategies.

PEP A286 Leadership in Individual and Dual Activities 2 CR
Contact Hours: 1 + 2
Special Fees.
Examines key concepts associated with individual and dual activities. Presents a variety of motor skill themes and movement concepts in a progression from the precontrol to the proficiency level. Examines preparation for game play through the combining of skills, using skills in more complex ways, and utilizing offensive and defensive strategies.

PEP A287 Leadership in Outdoor Recreation Activities 2 CR
Contact Hours: 1 + 2
Examines key concepts and activities associated with outdoor recreation. Presents a variety of activities such as hiking, camping, canoeing, orienteering, snowshoeing and cross-country skiing. Introduces planning, preparation, equipment, techniques, leadership, environmental ethics, and safety.

PEP A288 Leadership in Rhythmic Activities 2 CR
Contact Hours: 1 + 2
Special Fees.
Examines key concepts associated with rhythmic activities. Presents a variety of fundamental, rhythmic patterns and movement concepts in a progression from precontrol to proficiency level. Demonstrates rhythmic experiences: folk, ethnic or square dances; creative dance; and educational gymnastics. Combines the mastery of movement skills with the artistry of expression.

PEP A345 Incorporating Health and Physical Activity into the Pre-K - 6 Classroom 2 CR
Contact Hours: 1 + 2
Prerequisites: EDSE A212 or PSY A245.
Special Fees.
Examines the relationship between physical activity and learning based on brain research, cooperative learning models, and multiple intelligences. Builds content and behavior knowledge to enhance learning and strategies for making positive behavior changes for elementary education and early childhood majors. Includes a variety of methods and activities for adding physical activity and health into lesson instruction. Emphasizes how key health and physical activity concepts relate to state standards: promotes positive attitudes, working with families, and developmentally appropriate curriculum strategies.

PEP A346 Lower Body Injury Assessment Skills 3 CR
Contact Hours: 5 + 7.5
Prerequisites: PEP A251.
Special Fees.
Special Note: This is a clinical/practicum course and field work is required.
Focuses on the recognition and assessment of athletic injuries. Emphasizes lower body injury assessment skills and proficiencies.

PEP A347 Upper Body Injury Assessment Skills 3 CR
Contact Hours: 5 + 7.5
Prerequisites: PEP A251 and PEP A346.
Special Fees.
Special Note: This is a clinical/practicum course and field work is required.
Focuses on the recognition and assessment of athletic injuries. Emphasizes upper body injury assessment skills and proficiencies.

PEP A363 Natural History Interpretation and Environmental Education 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A104 or GEOL A104.
Introduces skills for reading and interpreting the natural environment. Illustrates geological, biological, and cultural factors to participants or clients. Also covers environmental education strategies and techniques.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEP A364</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: PEP A161 and PEP A262.</td>
</tr>
<tr>
<td>Registration Restrictions: Activity course requirements completed; instructor approval.</td>
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<tr>
<td>Presents theoretical overview of survival with emphasis on psychology of lost persons and survivors. Presents small group search for lost persons and self-rescue considerations. Introduces local and national Search and Rescue (SAR) systems and operational methods.</td>
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<tr>
<td>PEP A365</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: PEP A262 and PEP A282 and PEP A287 and (PEP A384 or concurrent enrollment).</td>
</tr>
<tr>
<td>Presents theories of leadership with emphasis on adventure programming application. Covers leadership styles, power, motivation, followership, group dynamics, diversity, safety, and ethics.</td>
</tr>
<tr>
<td>PEP A382</td>
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<tr>
<td>Contact Hours: 3 + 2</td>
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<tr>
<td>Prerequisites: BIOL A111 and BIOL A112.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Analyzes the structure, function, and mechanics of human movement with an emphasis on exercise, sports, and recreational activities. Includes application-based laboratory experiences.</td>
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<tr>
<td>PEP A383</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: PSY A111 or PSY A150.</td>
</tr>
<tr>
<td>Analyzes the process of development in the psychomotor domain. Investigates motor learning theories, physiological foundations of skill performance, motor skill development, environmental effects, application of motor development instructional techniques, and measurement processes.</td>
</tr>
<tr>
<td>PEP A384</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: PSY A111 or PSY A150.</td>
</tr>
<tr>
<td>Class Standing Restriction: Must be Junior or Senior.</td>
</tr>
<tr>
<td>Registration Restrictions: Completion of GER Tier 1 (Basic college-level skills) courses and junior standing.</td>
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<tr>
<td>Course Attributes: UAA GER Integrative Capstone.</td>
</tr>
<tr>
<td>Investigates the dynamic relationship between psychological issues and health behavior adherence and/or physical activity performance. Analyzes the interaction between physical activity and society.</td>
</tr>
<tr>
<td>PEP A385</td>
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<tr>
<td>Contact Hours: 3 + 2</td>
</tr>
<tr>
<td>Prerequisites: BIOL A111 and BIOL A112.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Analyzes the relationship of physical activity and exercise and the various physiological processes of the human body. Examines the sources and metabolism of energy used to produce movement and other factors that may influence performance.</td>
</tr>
<tr>
<td>PEP A442</td>
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<tr>
<td>Contact Hours: 2.5 + 1</td>
</tr>
<tr>
<td>Special Note: Recommended for juniors or seniors who have had at least one course in anatomy, physiology, psychology, sociology or gerontology.</td>
</tr>
<tr>
<td>Develops knowledge and skills necessary for understanding, leading or participating in physical programs for older adults. Fosters positive attitudes and addresses creative and meaningful movement experiences as well as the physiological implications for the aged individual.</td>
</tr>
<tr>
<td>PEP A452</td>
</tr>
<tr>
<td>Contact Hours: 1 + 0</td>
</tr>
<tr>
<td>Presents topics of particular interest to health and fitness leaders. Focuses on subjects such as legal issues, staff concerns, common programming problems, funding opportunities, resources, and other areas of interest.</td>
</tr>
<tr>
<td>PEP A453</td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Provides a look at various health promotion settings and the role of the health/fitness professional.</td>
</tr>
<tr>
<td>PEP A454</td>
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<tr>
<td>Contact Hours: 2 + 2</td>
</tr>
<tr>
<td>Prerequisites: PEP A385.</td>
</tr>
<tr>
<td>Provides an understanding of techniques necessary for exercise test administration, evaluation, and prescription for normal and special populations. Emphasizes clinical physiology, testing protocols and the evaluation of results, and the design of individual exercise prescriptions based upon the results.</td>
</tr>
<tr>
<td>PEP A455</td>
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<tr>
<td>Contact Hours: 2 + 2</td>
</tr>
<tr>
<td>Prerequisites: PEP A385 and PEP A454.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Provides an understanding of exercise as an integral part of medicine by assisting in the diagnosis of cardiovascular disease and by serving as an adjunct to traditional medical practice in the treatment of persons with cardiovascular disease. Focuses on the pathophysiology of the disease, its detection, program design, medical management, and exercise therapy.</td>
</tr>
<tr>
<td>PEP A456</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Senior status.</td>
</tr>
<tr>
<td>Covers contemporary issues related to personal health. Focuses on subjects such as nutrition, fitness, substance abuse, consumer issues, sexual health, and emotional health issues. Additional topics will reflect concerns related to personal health.</td>
</tr>
<tr>
<td>PEP A466</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Class Standing Restriction: Must be Junior or Senior.</td>
</tr>
<tr>
<td>Registration Restrictions: Activity course requirements completed; instructor approval.</td>
</tr>
<tr>
<td>Provides an in-depth analysis of accident prevention and crisis response from an organizational perspective. Emphasizes current standards as well as prevention and response plans to minimize the potential for, and consequences of, an accident.</td>
</tr>
<tr>
<td>PEP A467A</td>
</tr>
<tr>
<td>Contact Hours: 5 + 3</td>
</tr>
<tr>
<td>Prerequisites: PEP A282 and PEP A364 and PEP A365.</td>
</tr>
<tr>
<td>Provides techniques and strategies of challenge course leadership. Emphasizes application of leadership skills in field-based experiences. Covers assessment, logistics, initiatives, low and high ropes course elements, and safety, with an emphasis on facilitation and debriefing.</td>
</tr>
<tr>
<td>PEP A467B</td>
</tr>
<tr>
<td>Contact Hours: 5 + 3</td>
</tr>
<tr>
<td>Prerequisites: PEP A161 and PEP A365 and PER A146 and PER A147 and PER A148 and PER A181 and PER A246.</td>
</tr>
<tr>
<td>Provides techniques and strategies of outdoor leadership in the alpine or climbing environment. Emphasizes application of leadership skills in field-based experiences. Covers planning and organization, logistics, rope systems and anchors, environmental considerations, decision making and judgment, and safety.</td>
</tr>
<tr>
<td>PEP A467C</td>
</tr>
<tr>
<td>Contact Hours: 5 + 3</td>
</tr>
<tr>
<td>Prerequisites: PEP A161 and PEP A365 and [PER A169 or PER A182].</td>
</tr>
<tr>
<td>Registration Restrictions: Instructor permission.</td>
</tr>
<tr>
<td>Provides techniques and strategies of terrestrial-based outdoor leadership in all seasons. Emphasizes application of leadership skills in field-based experiences. Covers planning and organization, logistics, campcraft, environmental considerations, decision making and judgment, and safety.</td>
</tr>
<tr>
<td>PEP A467D</td>
</tr>
<tr>
<td>Contact Hours: 5 + 3</td>
</tr>
<tr>
<td>Prerequisites: PEP A161 and PEP A365 and [PER A151 or PER A153].</td>
</tr>
<tr>
<td>Registration Restrictions: Instructor permission.</td>
</tr>
<tr>
<td>Provides techniques and strategies of water-based outdoor leadership in all seasons. Emphasizes application of leadership skills in field-based experiences. Covers planning and organization, logistics, lead-paddling considerations, environmental considerations, decision making and judgment, and safety.</td>
</tr>
<tr>
<td>PEP A486</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: PEP A181.</td>
</tr>
<tr>
<td>Emphasizes program development and planning based on national, state, and local standards in health, physical education, recreation, and adventure leadership. Applies appropriate strategies to assess program and client success.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

PEP A487  Administration and Supervision in Health, Physical Education and Recreation  3 CR
Contact Hours:  3 + 0
Prerequisites: PEP A181.
Critiques and evaluates the technical, leadership, and supervisory skills necessary to safely and effectively administer health, physical education and recreation programs. Theoretical, practical, and research perspectives will be presented.

PEP A495  Internship in Health and Fitness Leadership  6 CR
Contact Hours:  .5 + 16.5
Registration Restrictions: Successful completion of a minimum of 12 hours of upper level emphasis-specific courses; Grade of C or better in all emphasis-specific courses with minimum GPA of 2.75; Instructor approval; Current CPR/First Aid certification required for internship placement; Admission to BS in PE; Senior status.
Special Fees.
Special Note: Special clothing may be required.
Advanced professional experience in an approved position with supervision and training in health and fitness programming.

PEP A496  Internship in Adventure Leadership  6 CR
Contact Hours:  .5 + 16.5
Prerequisites: PEP A66 and PEP A487.
Registration Restrictions: A grade of C or better in all emphasis-specific courses with a minimum overall GPA of 2.75; 100 days of field leadership, at least 50 of which are outside UAA; Instructor approval; Current CPR/First Aid certification required for placement; Admission to BS in PE; Senior status.
Special Fees.
Special Note: Special clothing may be required.
Provides advanced professional experience in an approved position with supervision and training in various aspects of adventure programming.

PEP A645  Methods in Elementary Physical Education  3 CR
Contact Hours:  3 + 0
Prerequisites: EDFN A478 and EDFN A602.
Registration Restrictions: Departmental approval.
Special Fees.
Special Note: Concurrent enrollment in an internship is required.
Applies theory and practice necessary for facilitating learning, providing positive behavioral supports, evaluating programs, and developing curriculum within the elementary physical education classroom ecology.

PEP A646  Methods in Secondary Physical Education  3 CR
Contact Hours:  3 + 0
Prerequisites: EDFN A478 and EDFN A602.
Registration Restrictions: Departmental approval.
Special Fees.
Special Note: Concurrent enrollment in an internship is required.
Applies theory and practice necessary for facilitating learning, providing positive behavioral supports, evaluating programs, and developing curriculum within the secondary physical education classroom ecology.

PER - PHYSICAL EDUCATION & RECREATION
Offered through the Community & Technical College

Eugene Short Hall (ESH) 125, 786-4083
www.uaa.alaska.edu/ctc/hper

PER A100  Fitness for Life  2 CR
Contact Hours:  1 + 2
Special Fees.
Introduces key concepts associated with lifetime personal fitness. Presents a variety of physical activities for improved health-related fitness. Combines lecture with lab sessions.

PER A101  Fitness Cross Training  1 CR
Contact Hours:  .5 + 1
Special Fees.
Introduces a wide variety of cross training exercise formats for total fitness. Develops individual fitness through a variety of workouts, such as step aerobics, weight training, lateral training, circuit training, and fitness walking.

PER A103  Indoor Stationary Cycling  1 CR
Contact Hours:  .5 + 1
Special Fees.
Introduces the basic skills and concepts associated with indoor cycling. Applies basic principles of cycling through active participation. Introduces key concepts related to lifetime fitness.

PER A104  Aerobic Walking  1 CR
Contact Hours:  .5 + 1
Special Fees.
Introduces key concepts associated with lifetime fitness. Presents the concepts and technical skills to set up and participate in a regular aerobic walking program.

PER A105  Low Impact Aerobics  1 CR
Contact Hours:  .5 + 1
Special Fees.
Introduces key concepts related to lifetime personal fitness. Presents a variety of beginner level aerobic exercise routines for improved physical fitness. Designed for individuals who have not participated in regular exercise and would like to begin a safe and effective fitness program.

PER A106  Aerobics  1 CR
Contact Hours:  .5 + 1
Special Fees.
Introduces key concepts related to lifetime personal fitness. Presents a variety of aerobic exercise routines such as step aerobics, lateral training, circuit training, and interval training for improved physical fitness.

PER A107  Aerobic Kickboxing  1 CR
Contact Hours:  .5 + 1
Special Fees.
Introduces key concepts related to lifetime personal fitness. Presents a variety of aerobic exercise routines such as deep water jogging, aerobics to music, circuit training, and interval training. Designed for swimmers and non-swimmers.

PER A109  Aqua Aerobics  1 CR
Contact Hours:  .5 + 1
Special Fees.
Introduces key concepts related to lifetime personal fitness. Presents a variety of aqua aerobic exercise routines such as deep water jogging, aerobics to music, circuit training, and interval training. Designed for swimmers and non-swimmers.

PER A110  Country Line Style Workout  1 CR
Contact Hours:  .5 + 1
Special Fees.
Introduces key concepts related to lifetime personal fitness. Presents a variety of aqua aerobic exercise routines such as deep water jogging, aerobics to music, circuit training, and interval training. Designed for swimmers and non-swimmers.

PER A111  Beginning Pilates  1 CR
Contact Hours:  .5 + 1
Special Fees.
Introduces Pilates as an effective way to improve strength and flexibility. Covers basic fitness concepts and exercises which target development of core strength (abdomen, lower back, buttocks, hips, and thighs) by utilizing one’s own body weight for resistance.

PER A114  Muscle Fitness  1 CR
Contact Hours:  .5 + 1
Special Fees.
Introduces key concepts related to lifetime personal fitness. Presents a variety of non-aerobic exercises such as light weight training, resistance bands, circuit training, and interval training for improved skill-related fitness, muscular endurance, and flexibility.

PER A116  Circuit Training  1 CR
Contact Hours:  .5 + 1
Special Fees.
Introduces key concepts related to lifetime personal fitness. Presents circuit training as a way to improve strength, physical conditioning, and general sports performance. Covers cardiorespiratory training, flexibility exercises, and safe techniques for improved muscular strength and endurance.

PER A117  Shape Up with Weights  1 CR
Contact Hours:  .5 + 1
Special Fees.
Introduces key concepts related to lifetime personal fitness. Presents a variety of non-aerobic exercises such as light weight training, resistance bands, circuit training, and interval training for improved skill-related fitness, muscular endurance, and flexibility.

PER A118  Beginning Weight Training  1 CR
Contact Hours:  .5 + 1
Special Fees.
Introduces key concepts related to lifetime personal fitness. Presents resistance exercises to strengthen and condition major muscle groups.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PER A120</td>
<td>Beginning Yoga</td>
<td>1 CR</td>
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<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces yoga physical exercises, breathing, relaxation and concentration techniques as an approach to wellness.</td>
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<tr>
<td>PER A121</td>
<td>Yoga for Athletes</td>
<td>1 CR</td>
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<td></td>
<td>Contact Hours: .5 + 1</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces yoga exercises, breathing techniques, and relaxation exercises for athletes. Presents stretching, strengthening, breath control, and mental conditioning exercises as an aid to improving performance and enjoyment of athletic activity.</td>
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</tr>
<tr>
<td>PER A122</td>
<td>Beginning Tai Chi</td>
<td>1 CR</td>
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<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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</tr>
<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces Chen Style Tai Chi exercises designed for improved health, tranquility, energy, and strength.</td>
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<tr>
<td>PER A123</td>
<td>Beginning Karate</td>
<td>1 CR</td>
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<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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</tr>
<tr>
<td></td>
<td>Special Fees.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduces karate philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.</td>
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</tr>
<tr>
<td>PER A124</td>
<td>Beginning Kung Fu</td>
<td>1 CR</td>
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<td></td>
<td>Contact Hours: .5 + 1</td>
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</tr>
<tr>
<td></td>
<td>Special Fees.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduces Northern Shaolin Kung Fu philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.</td>
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</tr>
<tr>
<td>PER A125</td>
<td>Beginning Kendo</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces Kendo, the art of Japanese fencing. Training and discipline on the physical, mental, and spiritual levels will be covered.</td>
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<tr>
<td>PER A126</td>
<td>Beginning Tae Kwon Do</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces Tae Kwon Do philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.</td>
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<tr>
<td>PER A127</td>
<td>Wing Tsun for Self Defense</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
<td></td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces Wing Tsun (a form of Kung Fu) concepts and applications. Focuses on self-defense. Basic history and philosophy as well as benefits of Wing Tsun will also be presented.</td>
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<tr>
<td>PER A128</td>
<td>Beginning Tennis</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces basic skills and knowledge to play singles and doubles tennis. Applies basic principles of tennis through active participation.</td>
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<tr>
<td>PER A129</td>
<td>Beginning Racquetball</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces the basic skills and knowledge associated with playing racquetball. Applies basic principles of racquetball through active participation.</td>
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<tr>
<td>PER A130</td>
<td>Beginning Golf</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces the basic skills and knowledge associated with playing golf. Applies basic principles of golf through active participation.</td>
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<tr>
<td>PER A131</td>
<td>Beginning Bowling</td>
<td>1 CR</td>
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<tr>
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<td>Contact Hours: .5 + 1</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces the basic skills and knowledge associated with bowling. Applies basic principles of bowling through active participation.</td>
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<tr>
<td>PER A132</td>
<td>Beginning Swimming</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces proper breathing technique and basic strokes for those with little or no swimming background. Emphasizes personal water safety.</td>
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<tr>
<td>PER A133</td>
<td>Beginning Ice Skating</td>
<td>1 CR</td>
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<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces the basic skills and knowledge associated with ice skating. Applies basic principles of skating through active participation.</td>
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<tr>
<td>PER A134</td>
<td>Recreational Latin Dance</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td></td>
<td>Introduces the basic skills associated with social Latin dance. Covers various dances including Merenge, Bachata, Cumbia, Cha-Cha-Cha, and Salsa. Applies concepts of fitness, but focuses on Latin dance as a form of recreation.</td>
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<tr>
<td>PER A135</td>
<td>Beginning Hockey</td>
<td>1 CR</td>
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<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces the basic skills and knowledge associated with playing hockey. Applies basic principles of hockey through active participation.</td>
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<tr>
<td>PER A136</td>
<td>Beginning Volleyball</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces the basic skills and knowledge associated with playing volleyball. Applies basic principles of volleyball through active participation.</td>
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<tr>
<td>PER A137</td>
<td>Beginning Rock Climbing</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td>Introduces the fundamentals of rock climbing in Alaska. Covers hazard evaluation and risk assessment, selection of personal gear, technical needs, and safety equipment. Provides opportunity to practice knots, rope handling, belay, basic descending techniques, and top-rope rock climbing.</td>
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<tr>
<td>PER A138</td>
<td>Beginning Ice Climbing</td>
<td>1 CR</td>
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<td></td>
<td>Contact Hours: .5 + 1</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces the fundamentals of ice climbing in Alaska. Covers hazard evaluation and risk assessment, selection of personal gear, technical needs, and safety equipment. Introduces knots, rope handling, belay, basic descending techniques, and top-rope ice climbing.</td>
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<tr>
<td>PER A139</td>
<td>Beginning Indoor Sport Climbing</td>
<td>1 CR</td>
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<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td>Introduces the fundamentals of sport climbing in an indoor environment. Covers hazard evaluation and risk assessment specific to climbing gyms. Also covers selection of personal gear, technical needs, and safety equipment specific to indoor climbing. Introduces and provides opportunity to practice knots, rope handling, belaying, descent techniques, and top-rope climbing on an indoor climbing wall.</td>
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<tr>
<td>PER A140</td>
<td>Beginning Canoeing</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td>Introduces excellent backcountry camping skills and the ability to function comfortably in inclement weather. An overnight field outing may be included in the course. Introduces the most commonly used equipment, techniques, challenges, and risks found in the sport of canoeing. Includes instruction on equipment selection, trip planning, canoeing strokes and re-entry techniques with an emphasis on risk assessment and risk management.</td>
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</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

PER A152  Beginning River Rafting  1 CR
Contact Hours:  .5 + 1
Special Fees.
Special Note: Requires excellent backcountry camping skills and the ability to function comfortably in inclement weather. An overnight field outing may be included in the course.
Introduces the most commonly used equipment, techniques, challenges, and risks found in the sport of river rafting. Includes instruction on equipment selection, trip planning, preparing to paddle/row and minimum impact practices with emphasis on risk assessment and risk management.

PER A153  Beginning Sea Kayaking  1 CR
Contact Hours:  .5 + 1
Special Fees.
Special Note: Requires excellent backcountry camping skills and the ability to function comfortably in inclement weather. An overnight field outing may be included in the course. Students may need to rent or purchase additional gear for this course.
Introduces the fundamentals of sea kayaking in Alaska. Includes the most commonly used equipment, techniques, challenges, and risks found in the sport. Provides instruction in selecting equipment, trip planning, transporting boats, preparing to paddle, boat handling, re-entry techniques, and sea kayaking strokes. Emphasizes risk assessment and safety skills.

PER A154  Beginning Sailing  1 CR
Contact Hours:  .5 + 1
Special Fees.
Special Note: Requires ability to perform comfortably in inclement weather. Field session may be held on local lakes and/or ocean environment.
Introduces the equipment, vocabulary, techniques, challenges, and risks most commonly found in the sport of sailing. Provides opportunity to become familiar with safety equipment, learn pre-trip preparation, practice boat-handling skills, and identify steps used in the event of an emergency.

PER A160  Beginning Cross-Country Ski: Diagonal Stride  1 CR
Contact Hours:  .5 + 1
Special Fees.
Special Note: Requires ability to perform comfortably in extremely cold and inclement weather. Field session may be held on local lakes and/or ocean environment.
Introduces fundamentals of diagonal-stride cross-country skiing. Covers selection of personal clothing, ski and safety equipment, recognition and prevention of cold-weather injuries, and skiing skills and trail ethics. Provides opportunity for skiing on local trails.

PER A161  Beginning Cross-Country Skate Skiing  1 CR
Contact Hours:  .5 + 1
Special Fees.
Special Note: Requires ability to remain active and perform comfortably in extremely cold and/or inclement weather for up to two hours.
Introduces cross-country skate skiing techniques for groomed trail conditions. Covers selection of personal and safety equipment, recognition and prevention of cold-weather injuries, and skiing skills and trail ethics. Provides opportunity for skiing on local trails.

PER A162  Beginning Telemark Skiing  1 CR
Contact Hours:  .5 + 1
Special Fees.
Special Note: Students may be required to rent or purchase equipment and/or lift tickets for outings. Requires ability to perform comfortably in extremely cold and/or inclement weather.
Introduces the fundamentals of telemark skiing. Covers hazard evaluation, selection of personal ski and safety equipment, recognition and prevention of cold-weather injuries, skiing skills, and ski hill rules.

PER A163  Beginning Alpine Skiing  1 CR
Contact Hours:  .5 + 1
Special Fees.
Special Note: Students may be required to rent or purchase equipment and/or lift tickets for outings. Requires ability to perform comfortably in extremely cold and/or inclement weather.
Introduces the fundamentals of downhill skiing. Covers hazard evaluation, selection of personal ski and safety equipment, recognition and prevention of cold-weather injuries, skiing skills, and ski hill rules.

PER A164  Skiing Alaska's Backcountry  1 CR
Contact Hours:  .5 + 1
Special Fees.
Special Note: Requires ability to function comfortably in extremely cold or inclement weather. Good physical fitness required for all day outings. Students may need to rent or purchase additional equipment for this course.
Introduces skills needed to ski off-trail. Covers techniques for traveling on flat to rolling terrain, negotiating side hills, and skiing inclines and declines of up to 20 degrees. Also covers selection of personal, group, and safety equipment appropriate for day trips, evaluating avalanche hazards and assessing risk.

PER A166  Beginning Snowboarding  1 CR
Contact Hours:  .5 + 1
Special Fees.
Special Note: Students may be required to rent equipment and/or lift tickets for outings. Requires ability to perform comfortably in extremely cold and/or inclement weather.
Introduces snowboarding and the equipment, techniques, challenges, and risks common to the sport. Covers selection of personal and safety equipment, recognizing and preventing cold-weather injuries, and learning snowboarding techniques and ski-hill rules.

PER A167  Dog Mushing  1 CR
Contact Hours:  .5 + 1
Special Fees.
Special Note: Requires ability to function comfortably in extremely cold and/or inclement weather.
Introduces the practice of dog mushing, including the sport’s history, dog breeds and characteristics, their training and feeding needs, kennel-management routines, and dog-handling skills.

PER A168  Winter Camping Alaska  1 CR
Contact Hours:  .5 + 1
Special Fees.
Special Note: Requires good physical condition and ability to function comfortably in extremely cold and/or inclement weather.
Introduces winter camping in Alaska. Covers selection of personal, group and safety equipment appropriate for an overnight outing. Emphasizes snow shelter construction and learning to assess risk in the field. Course includes an overnight outing.

PER A169  Four-Season Backpacking  3 CR
Contact Hours:  1 + 4
Special Fees.
Special Note: Requires good backcountry camping skills, good physical condition and ability to perform comfortably in extremely cold and/or inclement weather. Students may need to rent or purchase additional equipment for this course.
Introduces four-season backpacking in Alaska. Covers selection of personal, group, and safety equipment appropriate for a backpacking trip during any season. Presents trip planning, prevention and assessment of cold injuries, frontcountry and backcountry navigation, avalanche hazard evaluation and rescue techniques. Emphasizes risk assessment and risk management.

PER A170  Backpack Alaska  3 CR
Contact Hours:  1 + 4
Special Fees.
Special Note: Requires good physical condition and ability to function comfortably in inclement weather.
Introduces the fundamentals of recognizing birds and plants as well as observing and tracking Alaskan mammals. Uses extensive reading and written assignments, as well as hands-on application of field techniques, to provide students with a solid, academic foundation for understanding animal behaviors and their signs.

PER A171  Outdoor Adventure in Alaska  2 CR
Contact Hours:  1 + 2
Special Fees.
Special Note: Requires good physical fitness and ability to function comfortably in extremely cold and/or inclement weather. Students may need to rent or purchase additional equipment for this course.
Introduces winter camping in Alaska. Covers selection of personal, group and safety equipment appropriate for an overnight outing. Emphasizes snow shelter construction and learning to assess risk in the field. Includes season-dependent activities such as day hiking, backpacking, canoeing, rock climbing, cross-country skiing (classic), or winter camping.

PER A172  Fishing Academy  2 CR
Contact Hours:  1 + 2
Registration Restrictions: Must be 18 years of age or older to enroll.
Grade Mode: Pass/No Pass.
Special Note: Students must be 18 or older to enroll and must abide by all University and course safety rules.
Provides overview of basic outdoor skills commonly used and enjoyed in Alaska. Covers trip preparation, equipment selection and maintenance, introduction to map and compass, and learning to identify risk in the field. Includes season-dependent activities such as day hiking, backpacking, canoeing, rock climbing, cross-country skiing, and “caring for your catch.” Emphasizes risk assessment and safety skills.

PER A177  Nature Observation and Tracking  3 CR
Contact Hours:  1 + 4
Special Fees.
Special Note: Requires the ability to function comfortably in inclement weather. Students may be required to rent or purchase equipment and/or lift tickets for outings. Requires ability to perform comfortably in extremely cold and/or inclement weather.
Introduces snowboarding and the equipment, techniques, challenges, and risks common to the sport. Covers selection of personal and safety equipment, recognizing and preventing cold-weather injuries, and learning snowboarding techniques and ski-hill rules.
PER A178 Discovering Wild Plants 1 CR  
Contact Hours: .5 + 1  
Special Fees.  
Prerequisites: PER A106.  
Introduces basic concepts for wellness including theories and definitions of optimal health. Includes topics such as substance abuse, sexually transmitted diseases, fitness, nutrition, mental health, cardiovascular disease, sexuality, and other significant health issues, with particular emphasis on the needs and concerns of women.

PER A179 Alaska's Wild Mushrooms 1 CR  
Contact Hours: .5 + 1  
Special Fees.  
Prerequisites: PER A106.  
Introduces the most commonly used equipment, techniques, and risk associated with crevasse rescue. Provides information for minimizing the chance of a crevasse fall and implementing a successful extraction. Emphasizes risk assessment and technical-skill acquisition.

PER A180 Alaska Winter Survival 3 CR  
Contact Hours: 1 + 4  
Special Fees.  
Prerequisites: PER A106.  
Introduces the most common risks and challenges encountered in winter survival situations. Emphasizes hazard evaluation, physical and psychological factors that affect survival, and preparation tips. Provides opportunity to practice outdoor skills and survival techniques.

PER A181 Crevasses Rescue Techniques 1 CR  
Contact Hours: .5 + 1  
Registration Restrictions: Instructor approval.  
Special Fees.  
Prerequisites: PER A106.  
Introduces the most common risks and challenges encountered in winter survival situations. Emphasizes hazard evaluation, physical and psychological factors that affect survival, and preparation tips. Provides opportunity to practice outdoors skills and survival techniques.

PER A182 Alaska Marine Survival 1 CR  
Contact Hours: .5 + 1  
Special Fees.  
Prerequisites: PER A106.  
Introduces the most common risks and challenges encountered in a marine survival situation. Emphasizes hazard evaluation, physical and psychological factors that affect survival, and preparation tips that can help prevent worst-case scenarios. Provides opportunity to practice field techniques.

PER A183 Wellness for Women 3 CR  
Contact Hours: 3 + 0  
Special Note: Students will apply concepts through physical activities outside of class time.  
Introduces basic concepts for wellness including theories and definitions of optimal health. Includes topics such as substance abuse, sexually transmitted diseases, fitness, nutrition, mental health, cardiovascular disease, sexuality, and other significant health issues, with particular emphasis on the needs and concerns of women.

PER A206 Intermediate Aerobics 1 CR  
Contact Hours: .5 + 1  
Prerequisites: PER A106.  
Special Fees.  
Prerequisites: PER A106.  
Develops and refines breathing technique and intermediate swimming strokes and diving. Emphasizes personal water safety.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>PER A236</td>
<td>Intermediate In-Line Skating</td>
<td>1 CR</td>
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</table>
| Contact Hours: .5 + 1  
Special Fees:  
Emphasizes and develops intermediate in-line skating skills and stunts. Applies intermediate level in-line skating skills through active participation. |
| PER A237    | Intermediate Ice Skating              | 1 CR         |
| Contact Hours: .5 + 1  
Special Fees:  
Emphasizes and develops intermediate ice skating skills. Applies intermediate principles of ice skating through active participation. |
| PER A241    | Intermediate Basketball               | 1 CR         |
| Contact Hours: .5 + 1  
Special Fees:  
Emphasizes game strategy and develops intermediate and advanced basketball skills. Applies offensive and defensive strategies of basketball through active participation. |
| PER A242    | Intermediate Soccer                   | 1 CR         |
| Contact Hours: .5 + 1  
Special Fees:  
Emphasizes game strategy and develops intermediate and advanced soccer skills. Applies offensive and defensive strategies of soccer through active participation. |
| PER A243    | Intermediate Hockey                   | 1 CR         |
| Contact Hours: .5 + 1  
Special Fees:  
Develops intermediate level power skating techniques and hockey skills. Applies defensive and offensive strategies and tactics. |
| PER A244    | Intermediate Volleyball               | 1 CR         |
| Contact Hours: .5 + 1  
Special Fees:  
Emphasizes game strategy and develops intermediate and advanced volleyball skills. Applies offensive and defensive strategies of volleyball through active participation. |
| PER A246    | Intermediate Rock Climbing            | 1 CR         |
| Contact Hours: .5 + 1  
Special Fees:  
Builds on the skills and knowledge gained in Beginning Rock Climbing. Emphasizes risk management skills, learning to build/use a variety of anchors, and ascending and descending techniques. Introduces a risk/benefit analysis of, but not the practice of, lead climbing vs. following. Provides opportunity to practice protection placement and mock lead climbing. |
| PER A272    | Advanced Weight Training              | 1 CR         |
| Contact Hours: .5 + 1  
Special Fees:  
Presents key concepts related to lifetime personal fitness. Applies advanced techniques for resistance exercises to strengthen and condition major muscle groups through correct use of variable resistance equipment and free weights. |
| PER A273    | Strength Training Through Periodization | 2 CR       |
| Contact Hours: 1 + 2  
Special Fees:  
Expands on key concepts related to strength and power training using the periodization model. Applies designing, planning, and implementing complete strength training programs in lecture and weight room sessions. |
| PER A275    | Advanced T’ai Chi                     | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PER A123 and PER A223.  
Instruction and guided practice in advanced Tai Chi Ch’uan Yang Long form. Focuses on exercises for the improvement of health, muscle endurance, energy, and relaxation. |
| PER A277    | Advanced Racquetball                  | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PER A231.  
Special Fees:  
Emphasizes game strategy and develops advanced racquetball skills. Applies advanced offensive and defensive strategies of racquetball through active participation. |
| PER A278    | Advanced Figure Skating               | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PER A237.  
Emphasizes and develops intermediate to advanced figure skating skills. Applies advanced principles of ice skating, program development, and choreography. |
| PER A280    | Power Skating                         | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PER A137.  
Expands on key concepts related to power skating for improved performance in ice hockey. Applies principles of balance, skating strides, crossovers, and physical conditioning through active participation. |
| PER A281    | Advanced Hockey                       | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PER A243.  
Special Fees:  
Emphasizes strategy and develops advanced skating and hockey skills. Applies advanced offensive and defensive strategies of hockey through active participation. Presents winning hockey coaching techniques. |
| PER A285    | Expedition Glacier School             | 2 CR         |
| Contact Hours: 1 + 2  
Registration Restrictions: Instructor approval.  
Special Fees:  
Special Note: Requires excellent physical condition and the ability to function comfortably in extremely cold and/or inclement weather. A student must attend the shakedown weekend in order to participate in the expedition. Applies backpacking and mountaineering techniques in a multi-day glacier expedition. Introduces glacier-travel and crevasse-rescue techniques as well as expedition planning. Emphasizes risk assessment and learning to minimize the inherent risks associated with the activity. |
| PER A287    | Expedition Backpacking                | 2 CR         |
| Contact Hours: 1 + 2  
Prerequisites: PER A170.  
Special Fees:  
Special Note: Requires excellent physical condition and ability to function comfortably in inclement weather. A student must attend the shakedown weekend in order to participate in the expedition. Provides experienced backpackers with the fundamentals of planning and participating on a multi-day backpacking trip. Emphasizes risk assessment, selection of group members, and importance of group dynamics, route selection, and logistics. |

### PETR - PETROLEUM TECHNOLOGY

Offered through Kenai Peninsula College  
156 College Road, Soldotna, Alaska, 99669, (877) 262-0330.  
[www.kpc.alaska.edu](http://www.kpc.alaska.edu)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>PER A140</td>
<td>Industrial Process Instrumentation I</td>
<td>3 CR</td>
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</tbody>
</table>
| Contact Hours: 3 + 0  
Prerequisites: MATH A055.  
Registration Restrictions: Reading Placement Test.  
Crosslisted with: PRT A140.  
Offered only at Kenai Peninsula College.  
Covers physics of pressure, temperature, level and flow; mechanical and electrical aspects of instruments used to control dynamics of processes. Also covers dynamics of automatic control including proportional control, automatic reset, derivative action and integral timing. |
| PER A144    | Industrial Process Instrumentation II  | 3 CR         |
| Contact Hours: 3 + 0  
Prerequisites: PETR A140 with minimum grade of C or PRT A140 with minimum grade of C.  
Crosslisted with: PRT A144.  
A continuation of PETR/PRTA140. Subjects covered will be the repair, maintenance, and calibration of a wide range of industrial process instruments. Hands on training will be emphasized. |
PHAR - PHARMACY TECHNOLOGY

Offered through the Community & Technical College
Allied Health Sciences Building (AHS), 786-6928
www.uaa.alaska.edu/ctc/alliedhealth/pharmacy

PHAR A101 Introduction to Pharmacy 3 CR
Contact Hours: 3 + 0
Special Fees.
Introduces pharmacy practice and the technician's role in various pharmacy settings. Emphasizes the history of pharmacy, pharmacy law and ethics, pharmacy terminology, symbols, and dosage forms.

PHAR A105 Pharmacology for Technicians I 3 CR
Contact Hours: 3 + 0
Introduces drug terms, definitions, origins and uses with an emphasis on factors affecting drug actions and adverse reactions. Provides overview of pharmacology, pharmacodynamics and pharmacokinetics. Focus on respiratory, GI, urinary, cardiovascular, chemotherapy, nutritional, and CODE blue emergency drugs and carts. This is part 1 of a 2-part course.

PHAR A107 Pharmacy Calculations 3 CR
Contact Hours: 3 + 0
Special Fees.
Provides students with the interpretive skills to read, decode and process a variety of prescriptions requiring mathematical computations. Introduces the basic concepts needed to calculate oral, parenteral, pediatric and elderly drug dosages. Calculation skills for interpreting intravenous flow rates, and compounding are also included.

PHAR A111 Techniques of Pharmacy Practice 3 CR
Contact Hours: 3 + 0
Special Fees.
Introduces techniques and demonstrations of pharmacy practices including accepting prescriptions and insurance cards, checking for required information, processing, filling, labeling, and completing patient profiles. Concentrates on compounding, mixing, IV preparation, and sterile techniques.

PHAR A115 Pharmacology for Technicians II 3 CR
Contact Hours: 3 + 0
Prerequisites: PHAR A105 with minimum grade of C.
Special Fees.
Introduces drug terms, definitions, origins and uses with an emphasis on factors affecting drug actions and adverse reactions. Focus on anti-infectives, pain relievers, muscle relaxants, other central nervous system, hormone, diabetic, and topical medications.

PHAR A192 Topics in Pharmacy 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Special Fees.
Explores current issues in the field of pharmacy. Uses discussion format enhanced by speakers, role-playing, problem solving, case studies and current news articles in pharmacy. Emphasizes ethical principles and their relationship to the technical applications of the practice of pharmacy.

PHIL - PHILOSOPHY

Offered through the College of Arts and Sciences
Administration/Humanities Building (ADM), Room 254, 786-4455
http://philosophy.uaa.alaska.edu

PHIL A101 Introduction to Logic 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Humanities Requirement.
Develops formal and informal reasoning skills, introduces deductive logic via statement logic, analyzes arguments and introduces scientific and inductive reasoning, reviews common fallacies and methods for evaluating arguments.

PHIL A201 Introduction to Philosophy 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Humanities Requirement.
Introduces works of major influential thinkers, both ancient and modern, focusing on the Western philosophical tradition. Emphasizes central problems of knowledge, reality, and good and evil.

PHIL A211 History of Philosophy I 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Humanities Requirement.
Survey of primarily Western philosophy from the pre-Socratic era through the late Middle Ages. Traces development of scientific, metaphysical, epistemological and ethical thought with emphasis on pivotal historical figures and debates.

PHIL A212 History of Philosophy II 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Humanities Requirement.
An introduction to major theories in normative ethics and metaethics, and the arguments of important moral philosophers. Emphasis on critical reasoning, as well as evaluation and analysis of arguments. Includes the application of ethical theory to contemporary moral issues, such as rights and distributive justice, environmental and animal issues, abortion, terrorism, and euthanasia.

PHIL A301 Ethics 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 or concurrent enrollment.
Croslisted with: LSJC A231.
Integrated approach to the study of critical and normative thinking, including: standards of truth in logic, mathematics, and science; standards of ethical goodness, and standards for the critical appraisal of art and the beautiful.

PHIL A302 Biomedical Ethics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior standing.
An in-depth exploration of current bioethical issues affecting the delivery of health care services. Theories of ethics and related principles are explored as a basis for professional decision-making and public policy determination. The focus of the course is the process of ethical inquiry and its relevance for contemporary health practices, research and education.

PHIL A303 Environmental Ethics 3 CR
Contact Hours: 3 + 0
Croslisted with: ENVI A303.
Historical and comparative analysis of Western, non-Western, indigenous and Native American philosophies, concerning the intrinsic, aesthetic and use values of nature and the land. Contemporary environmental ethics, including deep ecology, the land ethic, ecofeminism, and animal rights theories will be examined in detail. There will also be a focus on the ethical issues surrounding contemporary environmental controversies, such as land management, wildlife management, wilderness designation, sustainability, biodiversity and species preservation, private property and public commons, environmental racism, human overpopulation, development versus preservation, laboratory use of animals, vivisection, animal farming, subsistence, and sports hunting.
PHIL A304 Business Ethics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior standing.
Examines moral issues raised by contemporary business practice. Topics include moral justifications and critiques of the market system, the nature and scope of corporate responsibility, ethical issues in the workplace (e.g. whistle-blowing, sexual harassment, affirmative action, etc.), and environmental implications of business practices.

PHIL A309 Philosophy of Mind 3 CR
Contact Hours: 3 + 0
An examination of the mind/body problem, the nature of consciousness, self-knowledge, mental content, mental causation, cognitive science, personal identity, and agency.

PHIL A313 Eastern Philosophy and Religion 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C.
Course Attributes: UAA GER Humanities Requirement.
Study of Eastern philosophical and religious traditions, particularly Hinduism, Buddhism, Daoism and Confucianism. Includes studying basic concepts, tenets and practices of these traditions and related modern developments.

PHIL A314 Western Religions 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C.
Course Attributes: UAA GER Humanities Requirement.
Study of three Western monotheisms—Judaism, Christianity, and Islam. Covers basic tenets, practices and histories of the monotheists. Examines the intersections of religion with contemporary concerns such as gender, ethnicity, and violence.

PHIL A317 Metaphysics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: 6 credits with minimum grade of C from PHIL A101, A201, A211, A212, or A301.
Current issues in metaphysics, including topics such as free will, universals, space and time, modality and essentialism with an emphasis on critical reasoning, argument evaluation and analysis.

PHIL A318 Epistemology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: 6 credits with minimum grade of C from PHIL A101, A201, A211, A212, or A301.
An intensive and detailed study of a topic in contemporary philosophy in a seminar format.

PHIL A390 Selected Topics in Philosophy 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Upper-division standing.
Special Note: Course can be repeated for credit with a different subtitle.
Detailed study of a selected topic in philosophy.

PHIL A400 Ethics, Community, and Society 3 CR
Contact Hours: 3 + 0
Prerequisites: PHIL A301.
Registration Restrictions: Completion of GER Tier 1 (Basic college-level skills) courses and junior standing (at least 60 credit hours).
Course Attributes: UAA GER Integrative Capstone.
An integrated study of a selected topic on a global ethical issue and the interests and responsibilities of individuals, communities and societies. Topics may vary from semester to semester.

PHIL A401 Aesthetics 3 CR
Contact Hours: 3 + 0
An investigation into the nature of art and the creative process from both an historical and theoretical perspective, utilizing especially the philosophy of the ancient Greeks, the Romantic thinkers and contemporary semiotics.

PHIL A405 Professional Ethics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior standing.
Study of the common ethical concerns of professional practices, including professional-client relationships, confidentiality, integrity, the role of professional codes, conflicts of interest, conflicts of duties, questions of responsibility, and the concept of a profession. Includes an account of professional virtues, and an analysis of moral decision-making. Case studies and practical examples selected from various professions.

PHIL A406 Philosophy of Law 3 CR
Contact Hours: 3 + 0
Registration Restrictions: JUST A250 or 6 credits in Philosophy, and Junior standing.
Considers various philosophical accounts of the nature of law and grounds of its authority; the relationship between law and morality; connections between law and political ideals such as liberty, equality, and economic well-being; and methods of constitutional interpretation. Addresses contemporary controversies in the law such as civil disobedience, criminal responsibility, capital punishment, property rights, religious freedom, freedom of speech, and affirmative action.

PHIL A415 Feminist Philosophy 3 CR
Contact Hours: 3 + 0
Registration Restrictions: WS A200 or 6 credits in philosophy, and Junior standing.
Examines women’s position in the writings of prominent thinkers in the Western philosophical canon; contemporary theories concerning the nature of gender and its intersection with race, class, and sexuality; and feminist contributions to philosophical inquiry in ethics, social/political philosophy, theories of knowledge, and/or the philosophy of science.

PHIL A421 Philosophy of the Sciences 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior or Senior standing.
Critical issues in metaethics and normative ethics. Examines the nature of ethical claims, the basis for their authority, and the implications of such debates for normative ethics.

PHIL A423 Advanced Ethical Theory 3 CR
Contact Hours: 3 + 0
Prerequisites: PHIL A101 with minimum grade of C and PHIL A201 with minimum grade of C and PHIL A211 with minimum grade of C and PHIL A212 with minimum grade of C and PHIL A301 with minimum grade of C.

An intensive and detailed study of a topic in contemporary philosophy in a seminar format.

PHIL A490 Topics in Contemporary Philosophy 3 CR
Contact Hours: 3 + 0
Prerequisites: PHIL A101 with minimum grade of C and PHIL A201 with minimum grade of C and PHIL A211 with minimum grade of C and PHIL A212 with minimum grade of C and PHIL A301 with minimum grade of C.

An in depth investigation of the historical background to and philosophical content of an important philosopher’s thought. Philosophers studied may include Socrates, Plato, Aristotle, Augustine, Aquinas, Hobbes, Descartes, Locke, Hume, Kant, Nietzsche, or many others.

PHIL A492 Seminar on an Enduring Philosopher 3 CR
Contact Hours: 3 + 0
Prerequisites: PHIL A101 with minimum grade of C and PHIL A201 with minimum grade of C and PHIL A211 with minimum grade of C and PHIL A212 with minimum grade of C and PHIL A301 with minimum grade of C.
Registration Restrictions: Junior standing.
Work with a community partner in an area related to applied ethics. A service learning project will be identified and coordinated by a faculty committee in cooperation with a community partner, as related to the student’s interests. Students will use the project as a means of applying and reflecting on relevant ethical concepts, decision-making, and practical reasoning skills.
PHIL A498    Senior Research Project            3 CR  
Contact Hours: 3 + 0 
Prerequisites: PHIL A101 with minimum grade of C and PHIL A201 with minimum grade of C and PHIL A211 with minimum grade of C and PHIL A212 with minimum grade of C and PHIL A301 with minimum grade of C.  
Registration Restrictions: Senior standing, nine credits of philosophy in addition to the prerequisites, and faculty permission.  
Senior-level course in which the student will engage in independent research on a topic of his or her choosing under the supervision of a faculty member. The course culminates with the completion of a research paper of significant length prepared to publication standards.

PHIL A607    Ethics in Clinical Medicine       1 CR  
Contact Hours: 1 + 0 
Registration Restrictions: Admission to the WWAMI program or the MS program in Nursing Science, or with the consent of the instructor.  
Grade Mode: Pass/No Pass.  
Focuses on ethical issues in medical training and clinical practice, as well as on core topics in biomedical ethics.

PHYS  -    PHYSICS
Offered through the College of Arts and Sciences
ConocoPhillips Integrated Sciences Building (CPSB), Room 101, 786-1238
http://salt.uaa.alaska.edu

PHYS A101    Physics for Poets                3 CR  
Contact Hours: 3 + 0 
Prerequisites: MATH A105.  
Course Attributes: UAA GER Natural Sciences Requirement.  
Special Note: Does not fulfill the Natural Sciences component of the CAS B.S. Degree.  
Introduces liberal arts students to the theory, methods, and techniques of physics, the most basic of the sciences. Provides broad exposure to many aspects of physics, including celestial mechanics, quantum theory, relativity, and cosmology, as well as the scientific method.

PHYS A115    Physical Science                 3 CR  
Contact Hours: 3 + 0 
Registration Restrictions: Placement into MATH A105 or higher.  
Exposes students to basic concepts in physics. Presents general knowledge of science rather than an in-depth study of any one field.

PHYS A115L   Physical Science Lab             1 CR  
Contact Hours: 0 + 3 
Prerequisites: (PHYS A115 or concurrent enrollment).  
Exposes students to basic concepts in physics labs. Presents general knowledge of science rather than an in-depth study of any one field.

PHYS A121    Basic Physics I                  3 CR  
Contact Hours: 3 + 0 
Prerequisites: MATH A105.  
Registration Restrictions: High school trigonometry.  
Course Attributes: UAA GER Natural Sciences Requirement.  
Non-calculus introduction to mechanics, fluids, and thermodynamics. Emphasizes motion, forces, gravitation, fluid motion, and laws of thermodynamics. Limited emphasis on historical development of physics.

PHYS A121L   Basic Physics I Laboratory       1 CR  
Contact Hours: 0 + 3 
Prerequisites: MATH A105 and (PHYS A121 or concurrent enrollment).  
Registration Restrictions: High school trigonometry.  
Course Attributes: UAA GER Natural Sciences Lab Only.  
Special Fees.  
Introductory physics laboratory, with experiments in mechanics, fluids, and thermodynamics.

PHYS A123    Basic Physics II                 3 CR  
Contact Hours: 3 + 0 
Prerequisites: PHYS A123 with minimum grade of C.  
Course Attributes: UAA GER Natural Sciences Requirement.  
Non-calculus introduction to electricity and magnetism, waves, optics, light, some modern and nuclear physics. Limited emphasis on historical development of physics.

PHYS A123L   Basic Physics II Laboratory      1 CR  
Contact Hours: 0 + 3 
Prerequisites: PHYS A123 with minimum grade of C and PHYS A123L with minimum grade of C and (PHYS A124 or concurrent enrollment).  
Course Attributes: UAA GER Natural Sciences Lab Only.  
Special Fees.  
Introductory physics laboratory, with experiments in electricity and magnetism, waves, and optics.

PHYS A130    Survey of College Physics        3 CR  
Contact Hours: 3 + 0 
Prerequisites: MATH A108.  
Introduction to core principles of physics in classical mechanics, waves, electricity and magnetism, and optics. Specifically designed to prepare students for entry into calculus based physics.

PHYS A211    General Physics I                3 CR  
Contact Hours: 3 + 0 
Prerequisites: MATH A200 with minimum grade of C and (MATH A201 or concurrent enrollment) and PHYS A130 with minimum grade of C.  
Registration Restrictions: If PHYS A130 prerequisite is not satisfied, then a passing score on department exam is required.  
Course Attributes: UAA GER Natural Sciences Requirement.  
Calculus-based course covering classical mechanics (statics and dynamics of translational and rotational motion), fluids, elasticity, and introduction to thermodynamics.

PHYS A211L   General Physics I Laboratory      1 CR  
Contact Hours: 0 + 1.5 
Corequisite: PHYS A211.  
Grade Mode: Pass/No Pass.  
Special Note: This course does not meet General Education Requirements.

PHYS A211R   General Physics I Problem Solving 1 CR  
Contact Hours: 0 + 1.5 
Corequisite: PHYS A211.  
Grade Mode: Pass/No Pass.  
Special Note: This course does not meet General Education Requirements.

PHYS A212    General Physics II               3 CR  
Contact Hours: 3 + 0 
Prerequisites: MATH A201 with minimum grade of C and (MATH A202 or concurrent enrollment) and PHYS A211 with minimum grade of C.  
Course Attributes: UAA GER Natural Sciences Requirement.  
Calculus-based course emphasizing basic electromagnetic theory, waves, fundamentals of geometric and physical optics, and light.

PHYS A212L   General Physics II Laboratory    1 CR  
Contact Hours: 0 + 3 
Prerequisites: (PHYS A212 with minimum grade of C or concurrent enrollment).  
Registration Restrictions: If PHYS A212 is taken from another institution, it must be completed prior to taking PHYS A212L.  
Course Attributes: UAA GER Natural Sciences Lab Only.  
Special Fees.  
Calculus-based introductory physics laboratory, with experiments in computerized data collection and analysis, mechanics, waves, elasticity, and wave motion.

PHYS A212R   General Physics II Problem Solving 1 CR  
Contact Hours: 0 + 1.5 
Corequisite: PHYS A212.  
Grade Mode: Pass/No Pass.  
Special Note: This course does not meet General Education Requirements.

PHYS A212R   General Physics II Problem Solving 1 CR  
Contact Hours: 0 + 1.5 
Corequisite: PHYS A212.  
Grade Mode: Pass/No Pass.  
Special Note: This course does not meet General Education Requirements.

PHYS A212R   General Physics II Problem Solving 1 CR  
Contact Hours: 0 + 1.5 
Corequisite: PHYS A212.  
Grade Mode: Pass/No Pass.  
Special Note: This course does not meet General Education Requirements.

PHYS A212R   General Physics II Problem Solving 1 CR  
Contact Hours: 0 + 1.5 
Corequisite: PHYS A212.  
Grade Mode: Pass/No Pass.  
Special Note: This course does not meet General Education Requirements.
PHYS A311  Intermediate Classical Mechanics  3 CR
Contact Hours:  3 + 0
Prerequisites: MATH A302 with minimum grade of C and PHYS A212 with minimum grade of C.
Newtonian, Lagrangian, and Hamiltonian mechanics, dynamics of systems of particles and rigid bodies.

PHYS A314  Electromagnetics  3 CR
Contact Hours:  3 + 0
Prerequisites: PHYS A212 and PHYS A212L and MATH A302.
Crosslisted with: EE A314.
Electromagnetic theory and applications. Static fields in free space and material media; steady current systems and associated magnetic effects. Includes magnetostatics, Maxwell’s Equations, electromagnetic radiation, transmission lines and relativity.

PHYS A320  Simulation of Physical Systems  3 CR
Contact Hours:  3 + 0
Prerequisites: MATH A202 and PHYS A124 or PHYS A212.
Special Fees.
Introduction to methods of computer simulation with diverse applications in physics such as numerical integration of Newton’s equation, cellular automata, random walks, Monte Carlo methods, percolation and the dynamics of many body systems. No prior programming experience is required.

PHYS A324  Electromagnetics II  3 CR
Contact Hours:  3 + 0
Prerequisites: [EE A314 or PHYS A314] and MATH A302.
Crosslisted with: EE A324.
Use of Maxwell’s equations in analysis of plane wave propagation, wave reflection, radiation and antennas, waveguides, cavity resonators, transmission lines, and radio propagation.

PHYS A403  Quantum Mechanics  3 CR
Contact Hours:  3 + 0
Prerequisites: [CHEM A332 with minimum grade of C or PHYS A303 with minimum grade of C] and MATH A314 with minimum grade of C.
Fundamentals of quantum mechanics, including applications to the hydrogen atom, particle spin, and perturbation theory.

PHYS A413  Statistical and Thermal Mechanics  3 CR
Contact Hours:  3 + 0
Prerequisites: CHEM A331 with minimum grade of C or PHYS A212 with minimum grade of C.
Principles of statistical mechanics and thermodynamics, with applications.

PHYS A456  Nonlinear Dynamics and Chaos  3 CR
Contact Hours:  3 + 0
Prerequisites: MATH A202 with minimum grade of C and PHYS A124 with minimum grade of C or PHYS A212 with minimum grade of C.
Registraion Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and junior standing.
Crosslisted with: BIOL A456 and CHEM A456.
Course Attributes: LAA GER Integrative Capstone.
An introduction to nonlinear dynamics and chaos. Concrete examples from physics, biology, chemistry, and engineering are used to develop analytical methods and geometric intuition. Topics covered include phase plane analysis, iterated maps, fractals, and strange attractors.

PHYS A498  Individual Research  1-6 CR
Contact Hours:  0 + 3-18
Registration Restrictions: Department permission.
Special Note: May be repeated for a maximum of 6 credits.
Research projects to be arranged with individual faculty members who will direct the research program.

PM - Project Management
Offered through the School of Engineering
University Center (UC), Room 155, 786-1924
http://sec.uaa.alaska.edu/espm

PM A601  Project Management Fundamentals  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate level standing.
Special Fees.
Special Note: It is highly recommended that PM A601 be taken in the first semester.
Fundamental concepts of project process, stakeholders and organization environment necessary for successful project management. Team-based term projects will be developed, discussed, and presented. Major project management software will be introduced.

PM A610  Project Scope Management  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate level standing.
Special Fees.
Project methods, tools, and techniques utilized to plan and define scope of work, verify and manage scope, measure project scope against the project plan, and change scope are emphasized. Elements crucial to initiation, selection, and authorization of the project are examined.

PM A612  Project Time Management  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate level standing.
Special Fees.
Advanced project time management processes utilized to ensure on-time project completion. Processes include defining project activities, sequencing activities, estimating activity duration, and developing and controlling the project schedule. Project scheduling software will be utilized in these processes.

PM A614  Project Cost Management  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate level standing.
Special Fees.
Advanced cost management processes and procedures utilized to ensure project completion is within budget. Cost estimating, WBS, scheduling, resource planning, accounting interface, cost budgeting, cost and schedule integration, and cost control are examined.

PM A616  Project Quality Management  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate level standing.
Special Fees.
Examination and implementation of contemporary team-based quality leadership. Major emphasis will be placed on understanding the philosophy and metricsparadigm for building and maintaining team-based continuous quality improvement. Special focus will be placed on developing an organizational climate for continuous quality leadership in public, non-profit, and private sector service-based enterprises.

PM A620  Project Human Resource Management  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate level standing.
Special Fees.
Covers the processes required to make effective use of people involved with the project. This forum- or discussion-style course is intended to open students to the wide variety of subject matter that will ultimately form the basis of their personal tool kit. Topics will include leadership, team leadership, delegating, motivation, performance measurement and reward systems, innovation and creativity, communications, and management systems.

PM A622  Project Communications Management  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate level standing.
Special Fees.
Examines methods and processes of planning for, identifying, assessing, monitoring, and responding to project risk. Qualitative and quantitative risk analysis procedures, including decision free analysis, risk simulation, risk ranking, and risk responding techniques.

PM A624  Project Risk Management  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate level standing.
Special Fees.
Examines methods and processes of planning for, identifying, assessing, monitoring, and responding to project risk. Qualitative and quantitative risk analysis procedures, including decision free analysis, risk simulation, risk ranking, and risk responding techniques.

PM A626  Project Procurement Management  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate level standing.
Special Fees.
Procurement management processes for project planning, solicitation, source selection, contract administration, and contract closeout are presented.

PM A685  Project Management Case Study and Research  6 CR
Contact Hours:  6 + 0
Registration Restrictions: Graduate level standing and instructor’s permission.
Special Fees.
Team-based case studies of actual project management problems that should be identified in the students’ workplace and will result in a written report. The report will include recommendations for action regarding the problem.
PMED A698 Individual Research 3-6 CR
Contact Hours: 3-6 + 0
Registration Restrictions: Instructor approval.
A project to be designed between the student and faculty members to allow the opportunity to pursue special advanced interests in project management at the M.S. level.

PMED - PARAMEDICAL TECHNOLOGY
Offered through Kenai Peninsula College, Kenai River Campus
156 College Road, Soldotna, AK 99669, (877) 262-0330
www.kpc.alaska.edu/academics/paramedical.html
and
Offered through Matanuska-Susitna College
Mile 2 Trunk Road, Palmer, AK 99645, (907) 746-9329
www.matsu.alaska.edu/paramedic

PMED A241 Paramedicine I 8 CR
Contact Hours: 7 + 2
Prerequisites: BIOL A111 with minimum grade of C and BIOL A111L and BIOL A112 with minimum grade of C and BIOL A112L.
Registration Restrictions: Current Alaska EMT-1 or National Registry EMT-Basic;
Acceptance into the PMED Program.
Corequisite: PMED A242.
Integrates pathophysiological principles and assessment findings to formulate impressions and implement treatment plans needed while caring for patients who have suffered an acute injury or illness.

PMED A242 Clinical Rotation I 4 CR
Contact Hours: 0 + 8
Prerequisites: BIOL A111 with minimum grade of C and BIOL A111L and BIOL A112 with minimum grade of C and BIOL A112L.
Registration Restrictions: Current Alaska EMT-1 or National Registry EMT-Basic;
Acceptance into the PMED Program.
Corequisite: PMED A241.
Grade Mode: Pass/No Pass.
Paramedic skills are performed in acute care settings.

PMED A251 Paramedicine II 8 CR
Contact Hours: 7 + 2
Prerequisites: PMED A241 and PMED A242.
Corequisite: PMED A252.
Integrates pathophysiological principles and assessment findings to formulate impressions and implement treatment plans needed when caring for trauma patients, and patients with special needs.

PMED A252 Clinical Rotation II 4 CR
Contact Hours: 0 + 8
Prerequisites: PMED A241 and PMED A242.
Corequisite: PMED A251.
Grade Mode: Pass/No Pass.
Paramedic skills are performed in hospital settings, specifically in emergency departments, operating rooms, intensive care/critical care units, labor and delivery units, pediatric units, and psychiatric wards.

PMED A261 Paramedicine III 8 CR
Contact Hours: 7 + 2
Prerequisites: PMED A251 and PMED A252.
Corequisite: PMED A262.
Integrates pathophysiological principles and assessment findings to formulate impressions and implement treatment plans needed when caring for medical patients. This course further incorporates assessment-based management and vehicle operations.

PMED A262 Clinical Rotation III 4 CR
Contact Hours: 0 + 8
Prerequisites: PMED A251 and PMED A252.
Corequisite: PMED A261.
Grade Mode: Pass/No Pass.
Paramedic skills are performed in hospital settings, specifically in emergency departments, operating rooms, intensive care/critical care units, labor and delivery units, pediatric units, psychiatric wards, and on air ambulances.

PMED A295 Paramedic Internship 12 CR
Contact Hours: 0 + 36
Prerequisites: PMED A261 and PMED A262.
Registration Restrictions: All PMED Major and AAS General Degree Education Requirements must be completed prior to registration.
Grade Mode: Pass/No Pass.
Pre-hospital field experience under the guidance of a paramedic preceptor on an advanced life support ambulance. Interns perform all aspects of paramedic care.

PRPE - PREPARATORY ENGLISH
Offered through the Community and Technical College
Beatrice McDonald Hall (BMH), Room 121, 786-6856
www.uaa.alaska.edu/ctc/cpds

PRPE A050 ESL Basic Conservation Skills 3 CR
Contact Hours: 3 + 0
Special Note: Student entering this course must have an advising slip signed by faculty. Call the Advising and Testing Center for appointment times. May be repeated one time for credit.
For high-level beginning to low-level intermediate students. Improves vocabulary acquisition and usage and the ability to communicate orally in everyday and academic situations by developing Standard American English language and speaking skills.

PRPE A051 ESL Basic Reading and Writing 3 CR
Contact Hours: 3 + 0
Special Note: Student entering this course must have an advising slip signed by faculty. Call the Advising and Testing Center for appointment times. May be repeated one time for credit.
For high-level beginning to low-level intermediate students. Emphasizes Standard American English basic grammar rules, improves writing ability, and increases reading comprehension in academic and everyday situations. Provides instruction in formatting written work, word processing, and using the dictionary as a grammar resource.

PRPE A052 Campus Orientation 1 CR
Contact Hours: 1 + 0
Prerequisites: ASSET Reading Skills with score of 27.
Grade Mode: Pass/No Pass.
Introduces resources found on the UAA campus and in the University of Alaska system and teaches use of those resources to overcome common barriers to success in college.

PRPE A054 Learning Strategies 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Appropriate score on reading placement test.
Grade Mode: Pass/No Pass.
Special Fees.
Prerequisites: Provides basic learning strategies. Develops time management, learning styles, textbook study, note taking, and test-taking skills.

PRPE A070 Basic Reading 2-4 CR
Contact Hours: 2-4 + 0
Registration Restrictions: Appropriate score on English placement test.
Special Fees.
Special Note: Concurrent enrollment in PRPE A080 is strongly recommended.
Improves basic reading skills with guided, structured practice in vocabulary, comprehension, and reading flexibility.

PRPE A072 Individualized Reading Lab 1-3 CR
Contact Hours: 0 + 2-6
Registration Restrictions: Appropriate score on reading placement test.
Grade Mode: Pass/No Pass.
Special Fees.
Prerequisites: Individualized instruction in basic reading skills, test comprehension, vocabulary development, dictionary skills, and readjustment of reading rate, in an open lab format.

PRPE A074 Vocabulary Skill Building 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: ASSET Reading Skills with score of 30.
Provides tools for vocabulary growth. Includes word recognition drills, practice exercises, writing, word roots, prefixes, and origins, use of the dictionary, and word searches on the computer.
PRPE A075  Speed Reading  1-3 CR  
Contact Hours: 1-3 + 0  
Registration Restrictions: Appropriate score on reading placement test.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Introduces skills to increase reading speed and comprehension. Presents techniques for efficient reading of different types of material.

PRPE A076  Reading Strategies  3 CR  
Contact Hours: 3 + 0  
Prerequisites: COMPASS Reading Skills with score of 62 or Accuplacer-Reading Comp with score of 055.  
Registration Restrictions: Appropriate score on reading placement test.  
Special Fees.  
Provides basic strategies for reading comprehension, vocabulary development, and textbook skills necessary for success in freshman college classes.

PRPE A080  Basic Writing  2-4 CR  
Contact Hours: 2-4 + 0  
Prerequisites: [COMPASS E-Write (1-12 scale) with score of 04 and COMPASS Reading Skills with score of 50] or [Accuplacer-Reading Comp with score of 040 and Accuplacer-Sentence Skills with score of 080].  
Registration Restrictions: Appropriate score on English placement test.  
Special Fees.  
Supports students in composition courses. Provides tools for improving sentences that conform to Standard American English. Focuses on common sentence errors for accuracy in drafting and editing.

PRPE A082  Refresher Writing Lab  1-3 CR  
Contact Hours: 5-1.5 + 1-3  
Prerequisites: ASSET Writing Skills with score of 30.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Special Note: May be repeated for a maximum of 6 credits.  
Improves basic writing skills to develop sentences and paragraphs that conform to Standard American English.

PRPE A084  Sentence Skills  1-3 CR  
Contact Hours: 1-3 + 0  
Registration Restrictions: Appropriate score on English placement test.  
Supports students in composition courses. Provides tools for improving sentences that conform to Standard American English. Focuses on common sentence errors for accuracy in drafting and editing.

PRPE A086  Writing Strategies  3 CR  
Contact Hours: 3 + 0  
Prerequisites: [COMPASS E-Write (1-12 scale) with score of 06 and COMPASS Reading Skills with score of 50] or [Accuplacer-Reading Comp with score of 055 and Accuplacer-Sentence Skills with score of 060].  
Registration Restrictions: Appropriate score on English placement test.  
Introduces composition of paragraphs and short essays that conform to Standard American English for college writing. Emphasizes basic writing skills to enhance students' writing. Reviews the basics of grammar, effective sentences, and sentence combining.

PRPE A105  Introduction to College Study Skills  1-3 CR  
Contact Hours: 1-3 + 0  
Prerequisites: PRPE A076 with minimum grade of C or COMPASS Reading Skills with score of 75.  
Registration Restrictions: If prerequisite is not satisfied, then appropriate score on reading placement test is required.  
Introduces study skills necessary for success in college-level courses. Presents strategies for information processing, lecture and textbook note-taking, and test-taking in academic settings.

PRPE A107  Introduction to College Reading  3 CR  
Contact Hours: 3 + 0  
Prerequisites: PRPE A076 with minimum grade of C or COMPASS Reading Skills with score of 75 or Accuplacer-Reading Comp with score of 070.  
Registration Restrictions: If prerequisite is not satisfied, then appropriate score on reading placement test is required.  
Improves literal and critical reading skills, academic vocabulary, and textbook comprehension and retention. Explores the connection between reading and writing needed for success in college classes.

PRPE A108  Introduction to College Writing  3 CR  
Contact Hours: 3 + 0  
Prerequisites: [PRPE A076 with minimum grade of C and PRPE A086 with minimum grade of C] or [COMPASS E-Write (1-12 scale) with score of 08 and COMPASS Reading Skills with score of 75] or [Accuplacer-Reading Comp with score of 070 and Accuplacer-Sentence Skills with score of 080].  
Registration Restrictions: If prerequisite is not satisfied, then appropriate scores on reading and writing placement tests required.  
Preparation for ENGL A111 and alternative to ENGL A109. Introduces composition of multi-paragraph essays that conform to Standard American English for college writing. Includes critical reading skills to enhance students' writing. Continues intensive practice in punctuation, sentence combining, revising, and editing.

PRT A101  Introduction to Process Technology  3 CR  
Contact Hours: 3 + 0  
Prerequisites: PETR A140 with minimum grade of C or PRT A140 with minimum grade of C.  
A continuation of PETR/PRT A140. Subjects covered will be the repair, maintenance, and calibration of a wide range of industrial process instruments. Hands-on training will be emphasized.

PRT A144  Industrial Process Instrumentation II  3 CR  
Contact Hours: 3 + 0  
Prerequisites: PETR A140 with minimum grade of C or PRT A140 with minimum grade of C.  
Crosslisted with: PETR A144.  
A continuation of PETR/PRT A140. Subjects covered will be the repair, maintenance, and calibration of a wide range of industrial process instruments. Hands-on training will be emphasized.

PRT A160  Oil and Gas Exploration and Production I  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Admission to Process Technology degree program.  
Surveys oil and gas exploration and production issues including marketing, geology, reservoir economics, legal aspects of resource ownership, drilling and production technologies, product separation, safety, and environmental issues.

PRT A230  Process Technology II: Systems  4 CR  
Contact Hours: 3 + 2  
Prerequisites: PRT A130.  
Covers how the individual components interact as part of a system and how each system works within an entire processing facility. Special attention is given to the common systems found in each Alaskan process industry. Some topics include upstream oil and gas production, petrochemicals and refinery processes, refrigeration, power generation, milling, boilers and heaters, coolers, and heat exchangers.
An introduction to the historical and constitutional foundations of American government; the political activities of parties, groups, and the media; public decision-making by the executive, Congress, and the courts; and current economic, environmental, social, and foreign issues and policies.

PS A343 Constitutional Law 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or JUST A110.
Course Attributes: UAA GER Social Sciences Requirement.

An introduction to the international environment, the nation-state, transnational institutions, diplomacy, and war. Selected contemporary international relations. Topics include the international system, transnational institutions, diplomacy, and war. Selected contemporary issues examined.

PS A325 Northeast Asia in 21st Century 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior standing. Completion of GER Tier 1 (basic college-level) courses. Six credits of Tier 2 GEOG, HIST, or PS courses. Crosslisted with: HIST A325 and INTL A325.
Course Attributes: UAA GER Integrative Capstone.

An interdisciplinary examination and analysis of Northeast Asia covering China, the Koreas, and Japan, designed to provide students with the means to understand how the societies of this region have developed separate and distinct identities despite their common cultural and philosophic roots.

Special Note: Subtitle varies; may be repeated for credit with a different subtitle.

Contact Hours: 1-3 or 0
Special Fees.

PS A324 Model United Nations 1/3 CR
Contact Hours: 1+3 or 0
Special Fees.
Special Note: To earn 1 credit, students must prepare to debate by acquainting themselves with their nation-state and the topic. To earn 3 credits, students must also submit two term papers. May be repeated once for credit.

A student simulation of the United Nations. Acting as nation-state delegates, students research and debate a topic of international concern.

PS A325 Northeast Asia in 21st Century 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior standing. Completion of GER Tier 1 (basic college-level) courses. Six credits of Tier 2 GEOG, HIST, or PS courses. Crosslisted with: HIST A325 and INTL A325.
Course Attributes: UAA GER Integrative Capstone.

An interdisciplinary examination and analysis of Northeast Asia covering China, the Koreas, and Japan, designed to provide students with the means to understand how the societies of this region have developed separate and distinct identities despite their common cultural and philosophic roots.

PS A327 Political Geography 3 CR
Contact Hours: 3 + 0
Prerequisites: [GEOG A101 or INTL A101 or PS A102].
Crosslisted with: GEOG A327.

Study of the spatial forms and processes of political phenomena. Concepts, models, and current literature related to territories such as nation-states and congressional districts, the formation and dissolution of empires, geopolitics, and international conflict are examined.

PS A330 The American Political Tradition 3 CR
Contact Hours: 3 + 0
The political theory of liberal democracy examined in its application to crucial events in American political history.

PS A331 Political Philosophy I: Classical 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: UAA GER Humanities Requirement.

An introduction to political philosophy, with emphasis on the study of regimes; selected regimes are examined through the writings of political philosophers.

PS A332 History of Political Philosophy I: Classical 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: UAA GER Humanities Requirement.

Political philosophy from Plato to Marsilius, with emphasis on natural right.

PS A333 History of Political Philosophy II: Modern 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: UAA GER Humanities Requirement.

Political philosophy from Machiavelli to Nietzsche, with emphasis on liberalism and its critics.

PS A341 Congress 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.

The organization of Congress and its role in the American political system. Theories of representative government, the internal dynamics of Congress, and forces influencing Congress's ability to act within the constitutional system are among the topics examined.

PS A342 The American Presidency 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.

The evolution of the executive branch of United States government. Focuses on presidential power, relations with Congress, presidential selection, contemporary policymaking, and the Constitution.

PS A343 Constitutional Law 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or JUST A110.
Crosslisted with: JUST A343.

An introduction to American constitutional law through study of selected Supreme Court cases. Among the topics considered are judicial review; separation of powers; property, commerce, and taxation; liberties guaranteed by the Bill of Rights; equal protection; and privacy. Comparisons are made with the Alaska Constitution.
PS A344  State and Local Politics  3 CR
Contact Hours:  3 + 0
Prerequisites: PS A101.
State and local politics and governments in the United States and their interrelationships. The course focuses on how the political process works, how decisions are made, and current issues and policies.

PS A345  Alaska Government and Politics  3 CR
Contact Hours:  3 + 0
Prerequisites: PS A101.
Special Note: May be applied to the Alaska Culture and History requirements for State of Alaska teacher recertification.
Governmental structures and the political process in Alaska. The course examines the history of government in Alaska, the cultural diversity of the population, and its effect on politics, contemporary policy issues, and political change.

PS A346  Alaska Native Politics  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Upper Division Standing.
Crosslisted with: AKNS A346.
Special Note: May be applied to the Alaska Culture and History requirements for State of Alaska teacher recertification.

PS A347  Public Administration  3 CR
Contact Hours:  3 + 0
Prerequisites: PS A101 or PS A102.
An introduction to the problems of managing agencies and implementing policies in local, state, and federal government. History and current practices of public administration and the effects of the social, economic, and political environments on administration, with an emphasis on Alaska.

PS A348  Public Policy  3 CR
Contact Hours:  3 + 0
Prerequisites: PS A101 or PS A102.
Case study approach to public policy and policymaking. Examines the relationship between the social, economic, and political environments and specific contemporary policies (e.g., education, social welfare, housing, employment, etc.), the policymaking process, and alternative models of policymaking. Emphasis on Alaska as well as national issues.

PS A351  Political Sociology  3 CR
Contact Hours:  3 + 0
Prerequisites: [ENGL A211 or ENGL A212 or ENGL A213 or ENGL A214] and [PS A102 or SOC A101].
Crosslisted with: SOC A351.
Course Attributes: UAA GER Social Sciences Requirement.
Introduction to the social aspects of politics and the nature and distribution of power in society. Examination of the dynamic relationship of the political process and the institutions of society.

PS A353  Political Behavior, Participation, and Democracy  3 CR
Contact Hours:  3 + 0
Prerequisites: PS A101 or PS A102.
Exploration of the relationship between the organization of society, political behavior, and efforts to influence the distribution of wealth, property, information, and other valuable resources. The course considers the effects of tradition, economic circumstances, education, the media, and other factors on our political beliefs and activities, and the impact of individual and collective actions on public decisions and policies.

PS A361  Social Science Research Methods  3 CR
Contact Hours:  3 + 0
Prerequisites: PS A102 or SOC A101.
Crosslisted with: SOC A361.
An introduction to research methods, including definition of research problems, development of hypotheses, experimental and non-experimental research design, sampling, and data collection and analysis. Students participate in field exercises to develop critical capacities for evaluating research studies.

PS A411  Tribes, Nations, and Peoples  3 CR
Contact Hours:  3 + 0
Registration Restrictions: PS A101 or PS A102 or Junior standing.
Crosslisted with: AKNS A411.
The politics of tribes, nations, and peoples lacking state representation. Case studies are drawn from Africa, Asia, Australia, North and South America, the South Pacific, Europe, and the former Soviet Union. Focuses on the nature of the economic system and how the economic process redistributes power and wealth.

PS A418  Politics and Economics of the Russian Far East  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A201 or INTL A335 or PS A102.
Special Note: May not be used for satisfying upper-division economics electives requirements of the Economics major.
Examines the political and economic system of the Russian Far East (RFE) during the pre-Soviet, Soviet, and post-Soviet periods; political and economic conditions in different regions of the RFE; and contemporary political and economic issues.

PS A424  International Law and Organization  3 CR
Contact Hours:  3 + 0
Prerequisites: PS A101 or PS A102.
An examination of the nature, subjects, and status of international law, and the purposes, roles, and development of international organizations. The course considers the significance of international law and organization in the contemporary global arena. Specific issues are analyzed to demonstrate the application of international law and the operation of international organizations.

PS A453  Organization Theory  3 CR
Contact Hours:  3 + 0
Prerequisites: PS A101.
Examines the behavior of the dominant form of institutions in modern society, i.e., organizations, and the behavior of individuals and groups within organizations. Emphasis on the relationship between the structure and design of organizations, conflicts within and between organizations, and organizations' (and individuals') ability to adapt and achieve goals.

PS A490  Studies in Politics  1-3 CR
Contact Hours:  1-3 + 0
Prerequisites: PS A101 or PS A102.
Special Note: Subtitle varies; may be repeated with different subtitles.
An examination of an aspect of politics from the perspective of a major field in the political science discipline (comparative politics, international relations, political philosophy, American politics, and political behavior). Field and subject studied will vary from year to year.

PS A492  Senior Seminar in Politics  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses. Senior standing and at least one upper-division course from another social science.
Course Attributes: UAA GER Integrative Capstone.
Senior Integrative Capstone course required of all Political Science majors. An examination of a single major problem in the study of politics.

PS A495  Internship in Political Science  1-3 CR
Contact Hours:  1-3 + 0
Prerequisites: PS A101 or PS A102.
Registration Restrictions: Faculty permission required.
Special Note: Internships vary; may be repeated once for credit with a different internship.
An opportunity for students to apply the subject matter of political science to the practical life of the community. Internships are available in a variety of governmental and private settings and require a formal agreement between the student, the faculty member, and the supervisor; a work evaluation, and a student report.

PS A690  Studies in Politics  1-3 CR
Contact Hours:  1-3 + 0
Prerequisites: PS A101 or PS A102.
May be stacked with: PS A490.
Special Note: Subtitle varies; may be repeated with different subtitles.
An examination of an aspect of politics from the perspective of a major field in the political science discipline (comparative politics, international relations, political philosophy, American politics, and political behavior). Field and subject studied will vary from year to year.
PSY - PSYCHOLOGY

Offered through the College of Arts and Sciences
Social Sciences Building (SSB), Room 214, 786-1711
http://psych.uaa.alaska.edu

PSY A111 General Psychology 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Social Sciences Requirement.
Introduces methods, theories, and research in the psychological sciences. Core topics include psychological research methods, biopsychology, learning, cognition, lifespan development, personality, psychological disorders, and social psychology.

PSY A112 Psychology Short Courses 1 CR
Contact Hours: 1 + 0
Present topics in general psychology. Specific topics to be announced.

PSY A115 Memory: How it Works and How to Improve It 3 CR
Contact Hours: 3 + 0
An overview of current theories and research about human memory with an emphasis on practical techniques for memory improvement.

PSY A130 Crisis Line/Shelter Advocacy 1 CR
Contact Hours: 1 + 0
Offered only at Kodiak College. Basic listening skills and crisis intervention techniques. Overview of domestic violence, adult and child sexual assault, legal alternatives, and community resources.

PSY A135 Domestic Violence and Sexual Assault Advocacy Training 1 CR
Contact Hours: 1 + 0
Offered only at Kodiak College.
In-depth review of fundamentals of domestic violence and sexual assault advocacy with specific emphasis on law enforcement, legal, medical, and social services. Focuses on regulation and program standards, dynamics of violence case work, development of techniques of effective interaction with clients, and working knowledge of community resources.

PSY A143 Death and Dying 3 CR
Contact Hours: 3 + 0
An examination of the event of death and the process of dying in contemporary society. Psychological aspects of loss, grieving, and acceptance of one's own mortality are presented along with an exploration of helping services available in the local community. Social issues involving death are discussed.

PSY A150 Lifespan Development 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Social Sciences Requirement.
Reviews physical, cognitive, and socioemotional aspects of human growth, maturation, and development across the lifespan. Special attention is given to the effects of broader sociocultural influences on development. Classical and contemporary theories relating to development across the lifespan are considered.

PSY A153 Human Relations 3 CR
Contact Hours: 3 + 0
Crosslisted with: HUMS A153.
A survey of human relations to include communication, problem solving, interaction, relationship, choice and change skills.

PSY A168 Human Sexuality 3 CR
Contact Hours: 3 + 0
Introduces topics of human sexual functioning including physiology, psychology, sociology, philosophy, and morality of human sexual practices and love.

PSY A230 Psychology of Adjustment 3 CR
Contact Hours: 3 + 0
Registration Restrictions: One social science course.
Study of sources and problems of stress. Examines self-esteem and interpersonal relationships from perspective of personal coping skills. Emphasizes taking control of one's life.

PSY A245 Child Development 3 CR
Contact Hours: 3 + 0
Registration Restrictions: One social science course.
Study of physical, emotional, cognitive, and social aspects of a child's development from prenatal period to beginning of adolescence. Includes theoretical view of development and effects of genetics, environment, and socialization.

PSY A245L Child Development Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: (PSY A245 or concurrent enrollment).

PSY A260 Statistics for Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A105 and PSY A111.
Registration Restrictions: Concurrent enrollment in PSY A260L is strongly recommended.
Special Note: Does not satisfy the General Education Quantitative Skills requirement.

PSY A260L Statistics for Psychology Lab 1 CR
Contact Hours: 0 + 2
Prerequisites: ENGL A111 and PSY A111.

PSY A111 General Psychology 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Social Sciences Requirement.
Introduces methods, theories, and research in the psychological sciences. Core topics include psychological research methods, biopsychology, learning, cognition, lifespan development, personality, psychological disorders, and social psychology.

PSY A112 Psychology Short Courses 1 CR
Contact Hours: 1 + 0
Present topics in general psychology. Specific topics to be announced.

PSY A115 Memory: How it Works and How to Improve It 3 CR
Contact Hours: 3 + 0
An overview of current theories and research about human memory with an emphasis on practical techniques for memory improvement.

PSY A130 Crisis Line/Shelter Advocacy 1 CR
Contact Hours: 1 + 0
Offered only at Kodiak College. Basic listening skills and crisis intervention techniques. Overview of domestic violence, adult and child sexual assault, legal alternatives, and community resources.

PSY A135 Domestic Violence and Sexual Assault Advocacy Training 1 CR
Contact Hours: 1 + 0
Offered only at Kodiak College.
In-depth review of fundamentals of domestic violence and sexual assault advocacy with specific emphasis on law enforcement, legal, medical, and social services. Focuses on regulation and program standards, dynamics of violence case work, development of techniques of effective interaction with clients, and working knowledge of community resources.

PSY A143 Death and Dying 3 CR
Contact Hours: 3 + 0
An examination of the event of death and the process of dying in contemporary society. Psychological aspects of loss, grieving, and acceptance of one's own mortality are presented along with an exploration of helping services available in the local community. Social issues involving death are discussed.

PSY A150 Lifespan Development 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Social Sciences Requirement.
Reviews physical, cognitive, and socioemotional aspects of human growth, maturation, and development across the lifespan. Special attention is given to the effects of broader sociocultural influences on development. Classical and contemporary theories relating to development across the lifespan are considered.

PSY A153 Human Relations 3 CR
Contact Hours: 3 + 0
Crosslisted with: HUMS A153.
A survey of human relations to include communication, problem solving, interaction, relationship, choice and change skills.

PSY A168 Human Sexuality 3 CR
Contact Hours: 3 + 0
Introduces topics of human sexual functioning including physiology, psychology, sociology, philosophy, and morality of human sexual practices and love.

PSY A230 Psychology of Adjustment 3 CR
Contact Hours: 3 + 0
Registration Restrictions: One social science course.
Study of sources and problems of stress. Examines self-esteem and interpersonal relationships from perspective of personal coping skills. Emphasizes taking control of one's life.

PSY A245 Child Development 3 CR
Contact Hours: 3 + 0
Registration Restrictions: One social science course.
Study of physical, emotional, cognitive, and social aspects of a child's development from prenatal period to beginning of adolescence. Includes theoretical view of development and effects of genetics, environment, and socialization.
PSY A335 Learning and Cognition 4 CR
Contact Hours: 3 + 3
Prerequisites: PSY A260 and PSY A261.
Special Fees.
Special Note: Laboratory work requires that students be familiar with research designs and statistical calculations.

Overview of major learning principles including classical conditioning and operant conditioning. Also includes a contemporary review of the memory system, the representation of knowledge, skill acquisition, memory retrieval, forgetting, and aspects of language processing.

PSY A366 Perception 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 and PSY A261.
Special Fees:
- Presents current theories and phenomena which effect how we perceive the world around us. Explores the capacities and limitations of the sensory apparatus, particularly vision. Considers implications of the human tendency to “Misperceive” situations.

PSY A368 Personality 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 or PSY A150.
Special Note: Offered Fall and Spring Semesters.
Survey of contemporary and modern theories of personality, emphasizing relevant research findings. Develops student competencies in the understanding and prediction of human behavior, thought, and feeling.

PSY A370 Biological Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A261 and [PSY A260 or STAT A252 or STAT A253] and [BIOL A102 or BIOL A111 or BIOL A115].
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and junior standing.
Course Attributes: UAA GER Integrative Capstone.
Special Note: This course does not meet the Psychology major capstone requirement.
- Examines how behavior and cognition are mediated by biological processes. The course overviews neural activity, the organization of the nervous system, psychopharmacology, and biological basis of normal and abnormal behaviors.

PSY A372 Community Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111.
Registration Restrictions: One other three (3) credit psychology course.
- Focus on the impact of social and environmental factors on behaviors. Emphasis on interaction theories and research and the application to communications, dynamics of power, confrontation and conflict, and creative problem solving.

PSY A375 Social Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 or PSY A150.
- Focuses on individuals in social situations and the scientific study of how individuals think about, influence, and relate to one another. Includes theory and research on subjective beliefs about the self and the social world; attitudes and behaviors; genes and culture; conformity; persuasion; group dynamics; prejudice; aggression; attraction; and altruism.

PSY A380 Psychology of Stress and Coping 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111.
Registration Restrictions: One other three (3) credit psychology course.
Special Fees:
- Examines the use of self-regulation techniques in the management of stress. Topics include cognitive behavior strategies, goal setting, time management, assertiveness training, relaxation techniques, biofeedback, diet, exercise, and alternative health practices.

PSY A398 Individual Research 3 CR
Contact Hours: 1 + 6
Prerequisites: PSY A260 and PSY A261.
Registration Restrictions: Faculty permission.
Grade Mode: Pass/No Pass.
Special Fees:
- Special Note: May be repeated for a maximum of 9 credits.
  Participation in a collaborative research group under the supervision of a faculty member. The student will help formulate a research question and assist in carrying out the study. The findings will be reported in a paper or presented at a conference.

PSY A412 Foundations of Modern Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A260 and PSY A261.
Special Note: Course meets the capstone requirement for the psychology major. Recommended for seniors. Seminar format.
- Provides an overview of psychology’s history that leads up to a discussion of the most significant issues in contemporary psychology. The course provides a historical perspective that is used to understand key issues in current psychological theory and research.

PSY A420 Conducting Research in Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 and PSY A261 and [PSY A260 or STAT A252 or STAT A253 or STAT A307].
Special Fees.
- Special Note: Fulfills capstone requirement for psychology majors.
  A survey of research design, from designing a study, statistically analyzing the data, to interpreting and reporting the results. Useful to those anticipating a project (such as thesis) and also valuable to those who wish to better understand research reports.

PSY A425 Clinical Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 and PSY A345.
- Historical developments and contemporary applications of clinical psychology.
  Survey of major counseling and psychotherapy approaches, including basic assumptions, techniques, and related research findings.

PSY A427 Field Experience in Psychology II 3 CR
Contact Hours: 1 + 6
Prerequisites: PSY A327.
Registration Restrictions: Instructor permission.
Special Fees:
- Special Note: Meets the departmental capstone requirements for the psychology major.
  Arranged placement in supervised settings that provide psychological services. Focus on policy, communication skills, intervention skills, assessment, service planning, and evaluation. Students are expected to complete 90 hours of supervised experience.

PSY A428 Evolutionary Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A260 and PSY A260L and PSY A261.
- Senior-level survey of theory and research pertaining to an evolutionary model of human nature. Emphasizes how such a model can integrate many of psychology’s different branches. Compares traits between and within different species, addressing how natural and sexual selection might have partially shaped human nature and patterns of human cognition, emotion, behavior, and social interactions.

PSY A445 Strategies of Behavior Change 3 CR
Contact Hours: 3 + 0
Focuses on the various principles, concepts, and clinical applications of applied behavior analysis with the human population. Includes methodology to complete a functional behavioral assessment of a target behavior.

PSY A450 Adult Development and Aging 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 or PSY A150.
- Reviews psychological, biological, and social development along with economic and historical circumstances of aging in the span of life between early and late adulthood. A special focus is placed on aging within today’s world and the use of applied developmental psychology in promoting positive aging.

PSY A453 Application of Statistics to the Social Sciences 4 CR
Contact Hours: 3 + 2
Registration Restrictions: STAT A252 for BA Sociology or STAT A253 for BS Sociology or PSY A260 for BA/BS Psychology, and SOC A361 or PSY A261. Crosslisted with: SOC A453.
Special Fees:
- Demonstrates application of statistics to various types of studies in the social sciences. Students analyze social science journal articles that utilize statistics.

PSY A455 Mental Health Services in Alaska 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A345.
- Emphasizes behavioral health topics in Alaska such as developmental disabilities, mental illness, and substance use. The course will present culturally sensitive, community-based services that address these problems throughout the life span.
COURSE DESCRIPTIONS

PSY A465 Cross-Cultural Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 and PSY F380.
Registration Restrictions: Three other psychology courses; PSY A425 recommended.
May be stacked with: PSY A654.
Expects linguistic-cultural values, attitudes and beliefs as they relate to interpersonal relationships and human behavior. Examines how behavioral styles, manifestations of psychopathology and effective psychotherapy methods are affected by ethnic-cultural factors.

PSY A473 Psychological Testing 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 and [PSY A260 or STAT A252].
Special Fees.
Provides an understanding of psychological measurement and test development. Topics include the history of testing, ethical testing practices, standardization, sources of bias, reliability, and validity. Common psychological tests are introduced.

PSY A485 Health Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 and PSY A370.
Course examines psychological, physical, and environmental factors that influence mental and physical health. Topics include: epidemiology, stress theories, brain anatomy, psychophysiology, psychoneuroimmunology, chronic pain, tobacco/alcohol abuse, diet, exercise, terminal illness, and how doctor/patient communication affects basic health care delivery. The biopsychosocial orientation is presented from both disease and prevention strategies.

PSY A486 Forensic Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 or SOC A101.
Introduces the development and application of psychology's scientific contribution to civil and criminal legal issues. Topics include history and philosophy of forensic psychology, report preparation (methods, assessment, and writing), practice and research ethics, expert testimony, mediation, domestic violence, child abuse, discrimination, sexual harassment, and criminal profiling.

PSY A490 Distinguished Practitioners Series 1 CR
Contact Hours: 1 + 0
Registration Restrictions: 12 credits of psychology.
May be stacked with: PSY A690.
Special Note: May be repeated for a maximum of 6 credits with a change of subtitle.
Topics in clinical or applied psychology presented by practicing members of the professional community. Specific titles as announced.

PSY A492 Senior Seminar: Contemporary Issues in Psychology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Declared psychology major or minor and completion of four psychology courses.
May be stacked with: PSY A690.
Special Note: Check schedules for specific titles being offered.
Seminar for senior students who are pursuing a major or minor in psychology to discuss issues in contemporary psychology.

PSY A498 Individual Research 3 CR
Contact Hours: 1 + 6
Prerequisites: PSY A398.
Registration Restrictions: Faculty permission.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: May be repeated for a maximum of 9 credits.
Serve as a project leader in a collaborative research effort under the supervision of a faculty member. The research group will select a topic for research, read relevant studies, formulate a research question and carry out an original study. The findings will be reported in a paper or presented at a conference.

PSY A499 Senior Thesis 3 CR
Contact Hours: 0 + 9
Registration Restrictions: Senior standing in psychology and PSY A420 or current enrollment and advisor's signature.
Independent or collaborative research under faculty supervision. Culminates in document prepared to publication standards. Presentation at behavioral sciences conference of the North is encouraged.

PSY A601 Clinical/Community/Cross-Cultural Integration Seminar 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Admission to the Ph.D. Program in Clinical-Community Psychology.
Grade Mode: Pass/No Pass.
Introduces current trends in community, clinical, and cross-cultural psychology. Students are encouraged to explore how these three fields complement each other to bring about positive change in community and clinical settings. Special emphasis is on ways to conceptualize mental health and community issues in culturally appropriate ways.

PSY A602 Native Ways of Knowing 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Introduces rural community psychology, including the diversity of rural communities with emphasis on Alaska, and the rural circumpolar north. Provides an introduction to rural health promotion, prevention, and behavioral health care and a basis for understanding many of the issues of services planning and delivery in rural areas.

PSY A603 Alaskan and Rural Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A632.
Registration Restrictions: Graduate standing in Psychology.
Introduces rural community psychology, including the diversity of rural communities with emphasis on Alaska, and the rural circumpolar north. Provides an introduction to rural health promotion, prevention, and behavioral health care and a basis for understanding many of the issues of services planning and delivery in rural areas.

PSY A604 Biological and Pharmacological Bases of Behavior 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A622.
Introduces rural community psychology, including the diversity of rural communities with emphasis on Alaska, and the rural circumpolar north. Provides an introduction to rural health promotion, prevention, and behavioral health care and a basis for understanding many of the issues of services planning and delivery in rural areas.

PSY A605 History and Systems 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Graduate standing in Psychology.
Provides a brief philosophically-oriented overview of the history of psychology. Compares Western psychology in the 19th and 20th centuries and selected indigenous psychologies of Asia and North America. Special attention is given to systems of thought that have emerged since the founding of psychology as an empirical science.

PSY A606 Native Ways of Healing 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing in Psychology.
Explores healing from a variety of Native perspectives, particularly from Alaska Native perspectives. Emphasizes the preparation and education of healers, their roles and work, and integration within the community. Students will have the opportunity to examine the possible integration of clinical and community psychology with indigenous approaches to healing.

PSY A607 Cognition, Affect, and Culture 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the Ph.D. Program in Clinical-Community Psychology and any psychology undergraduate course in learning, cognition, or emotion.
Provides an overview of attention, memory, appraisal, and emotion with applications to clinical psychology in a cultural context. Cultural influences on emotional experience and cognition are explored. The etiology and treatment of psychological disorders with significant cognitive and affective disturbance are explored.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours:</th>
<th>Prerequisites</th>
<th>Registration Restrictions</th>
<th>Special Fees</th>
<th>Special Note</th>
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<tbody>
<tr>
<td>PSY A609</td>
<td>Applied Research Methods</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Graduate standing in Psychology.</td>
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<tr>
<td>PSY A611</td>
<td>Ethics and Professional Practice</td>
<td>3 CR</td>
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<tr>
<td>PSY A612</td>
<td>Human Development in a Cultural Context</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Graduate standing in Psychology.</td>
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<tr>
<td>PSY A616</td>
<td>Program Evaluation and Community Consultation I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Admission to the Ph.D. Program in Clinical-Community Psychology.</td>
<td>Admission to the Ph.D. Program in Clinical-Community Psychology.</td>
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<tr>
<td>PSY A617</td>
<td>Program Evaluation and Community Consultation II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Admission to the Ph.D. Program in Clinical-Community Psychology.</td>
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<tr>
<td>PSY A622</td>
<td>Multicultural Psychopathology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Admission to the Ph.D. Program in Clinical-Community Psychology.</td>
<td>Admission to the Ph.D. Program in Clinical-Community Psychology.</td>
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<tr>
<td>PSY A623</td>
<td>Intervention I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Graduate standing in Psychology.</td>
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<tr>
<td>PSY A624</td>
<td>Group Therapy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>(PSY A623 or concurrent enrollment).</td>
<td>Graduate standing in Psychology.</td>
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<tr>
<td>PSY A626</td>
<td>Family Therapy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>(PSY A623 or concurrent enrollment).</td>
<td>Graduate standing in Psychology.</td>
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<tr>
<td>PSY A627</td>
<td>Community-Based Intervention Skills</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A623.</td>
<td>Graduate standing in Psychology.</td>
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<tr>
<td>PSY A629</td>
<td>Intervention II</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>PSY A631</td>
<td>Cognitive Behavior Therapy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>(PSY A623 or concurrent enrollment).</td>
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<tr>
<td>PSY A632</td>
<td>Community Psychology Across Cultures</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Graduate standing in Psychology.</td>
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<tr>
<td>PSY A633</td>
<td>Tests and Measurement in Multicultural Context</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Graduate standing in Psychology.</td>
<td>Graduate standing in Psychology.</td>
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<tr>
<td>PSY A638</td>
<td>Child Clinical Psychology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>(PSY A622 or concurrent enrollment) and (PSY A625 or concurrent enrollment).</td>
<td>Graduate standing in Psychology or baccalaureate degree and professional experience.</td>
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</tbody>
</table>

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www.uaa.alaska.edu
**COURSE DESCRIPTIONS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Registration Restrictions</th>
<th>Special Fees</th>
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<tbody>
<tr>
<td>PSY A639</td>
<td>Research Methods</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A260.</td>
<td>Graduate standing in Psychology.</td>
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<tr>
<td>PSY A650</td>
<td>Systems of Human Behavior I</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Level Restriction: Must be Graduate - UAA level.</td>
<td>Special Fees</td>
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<tr>
<td>PSY A652</td>
<td>Practicum Placement - Clinical I</td>
<td>1-3 CR</td>
<td>1-3 + 7-20</td>
<td>PSY A611 and PSY A622 and PSY A623 and PSY A629.</td>
<td>Admission to Ph.D. Program in Clinical-Community Psychology.</td>
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<td>PSY A653</td>
<td>Practicum Placement - Clinical II</td>
<td>1-3 CR</td>
<td>1-3 + 7-20</td>
<td>PSY A652.</td>
<td>Admission to Ph.D. Program in Clinical-Community Psychology.</td>
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<tr>
<td>PSY A654</td>
<td>Cultural Issues in Psychotherapy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A623.</td>
<td>Graduate standing in Psychology.</td>
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<td>PSY A657</td>
<td>Quantitative Analysis</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A639.</td>
<td>Admission to Ph.D. Program in Clinical-Community Psychology.</td>
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<tr>
<td>PSY A658</td>
<td>Qualitative Analysis</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Admission to Ph.D. Program in Clinical-Community Psychology.</td>
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<tr>
<td>PSY A659</td>
<td>Multivariate Methods in Psychology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A639 and PSY A657.</td>
<td>Admission to the Ph.D. Program in Clinical-Community Psychology.</td>
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<tr>
<td>PSY A665</td>
<td>Psychotherapy Practicum</td>
<td>1-3 CR</td>
<td>2 + 10-20</td>
<td>PSY A622 or concurrent enrollment</td>
<td>Admission to Ph.D. Program in Clinical-Community Psychology.</td>
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<tr>
<td>PSY A670</td>
<td>Psychotherapy Internship</td>
<td>3 CR</td>
<td>2 + 20</td>
<td>PSY A665.</td>
<td>Admission to MS Clinical Psychology graduate program; Candidate status, only with instructor permission.</td>
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<tr>
<td>PSY A671</td>
<td>Grant Writing</td>
<td>1/3 CR</td>
<td>1 or 3+ 0</td>
<td>PSY A639.</td>
<td>Graduate standing in Psychology.</td>
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<td>PSY A672</td>
<td>Practicum Placement - Community I</td>
<td>1-3 CR</td>
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<td>PSY A672.</td>
<td>Admission to Ph.D. Program in Clinical-Community Psychology.</td>
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<tr>
<td>PSY A673</td>
<td>Practicum Placement - Community II</td>
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<td>PSY A672.</td>
<td>Admission to Ph.D. Program in Clinical-Community Psychology.</td>
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<tr>
<td>PSY A679</td>
<td>Multicultural Psychological Assessment I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A633.</td>
<td>Admission to the Ph.D. Program in Clinical-Community Psychology.</td>
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</table>

*PSY A260: Introduction to research methods, research ethics, qualitative and quantitative research designs, and statistical methods.*

*PSY A611: Introduction to research methods, research ethics, qualitative and quantitative research designs, and statistical methods.*

*PSY A622: Advanced research methods, including multivariate analysis, principal component analysis, factor analysis, and structural equation modeling.*

*PSY A623: Advanced research methods, including multivariate analysis, principal component analysis, factor analysis, and structural equation modeling.*

*PSY A629: Advanced research methods, including multivariate analysis, principal component analysis, factor analysis, and structural equation modeling.*

*PSY A633: Advanced research methods, including multivariate analysis, principal component analysis, factor analysis, and structural equation modeling.*
PSY A681 Substances of Abuse in Alaska 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Graduate standing in psychology or related field. Instructor permission available for individuals with professional experience in substance abuse treatment.

An overview of the most prevalent substances of abuse in Alaska, including physical, psychological, social, and medical consequences of use and abuse.

PSY A682 Clinical Interventions for Substance Abuse 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Graduate standing in psychology or related field. Instructor permission available for individuals with professional experience in substance abuse treatment.

Contemporary approaches to substance abuse treatment. Emphasis is on conceptualizing substance abuse as a continuum from intervention to after-care. Focus of the course is designed around the study of therapeutic communities in the Anchorage area.

PSY A683 Substance Abuse Assessment and Treatment Planning 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Graduate standing in psychology or related field. Instructor permission available for individuals with professional experience in substance abuse treatment.

Assessment, measurement issues, and treatment planning in the context of clinical work with substance abusing individuals.

PSY A684 Clinical Supervision 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A63, A65.
Registration Restrictions: Admission to the Ph.D. Program in Clinical-Community Psychology.

Familiarizes students with the clinical, ethical, and cultural issues involved in supervision. Contemporary, empirically supported information regarding various approaches to supervision will be examined. Covers both the relationship inherent in clinical supervision, and training in leadership and supervision of employees in other work settings.

PSY A685 Quantitative Methods in Psychology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing in Psychology and an undergraduate statistics course.

Special Note: Offered Fall Semesters.

Principles of quantitative methods for data analysis in psychology. Topics include basic (e.g., correlation, reliability, power analysis, t-test) and advanced (e.g., logistic regression, factor analysis) methods of data analysis that are commonly found in psychological research. This course is designed to enhance rather than substitute for knowledge of quantitative methods gained at the undergraduate level. Both theoretical underpinnings and applied applications are stressed so that students can select appropriate quantitative methods, implement the data analysis, and report results according to American Psychological Association Standards.

PSY A686 Predoctoral Internship 6 CR
Contact Hours: 6 + 4
Registration Restrictions: Admission to the Ph.D. Program in Clinical-Community Psychology; approval of dissertation proposal; approval by the Director of Clinical Training.

Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Must be taken for three consecutive semesters.

Deepens understanding and application of assessment and intervention techniques in diverse settings. Students are placed in clinical or community settings for 40 hours per week to apply and sharpen skills. Students work under a local supervisor who manages student caseloads and assignments in collaboration with the course instructor.

PSY A687 Multicultural Psychological Assessment II 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A679.
Registration Restrictions: Admission to the Ph.D. Program in Clinical-Community Psychology.

Presents advanced psychological assessment tools including interviews, projective techniques and neurocognitive assessment. Emphasis on the integration of cognitive, personality and other test results derived from an assessment battery into a meaningful and culturally sensitive psychological assessment report.

PSY A689 Advanced Psychological Assessment 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A63.
Registration Restrictions: Graduate standing in Psychology.

Special Fees.

Presents advanced psychological assessment topics and techniques including tests of intelligence, personality, and various projective techniques. Also teaches test battery administration, integrative report writing and involves practical application.

PSY A690 Selected Topics in Psychotherapy 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Baccalaureate degree. Some sections in this series may require additional prerequisites.

May be stacked with: PSY A490 and PSY A492.

A combined theory and technique course focused on specifically designated issues and problems in counseling and psychotherapy. Designed for students seeking advanced training in special areas of clinical psychology.

PSY A695 Teaching Practicum in Psychology 3 CR
Contact Hours: 2 + 8
Registration Restrictions: Graduate standing in Psychology; faculty permission.

Provides the psychology student an opportunity to learn basic principles of classroom teaching under close faculty supervision. Responsibilities include lecture preparation, exam construction, lecturing, grading, and other teaching-related tasks as agreed upon by the student and supervising faculty in a written contract.

PSY A698 Individual Research 1-3 CR
Contact Hours: 0 + 3-9
Registration Restrictions: Admission to graduate studies in Psychology and faculty permission.

Special Fees.

Individual research activities, such as literature reviews, protocol development, and pilot studies, conducted under faculty supervision. May alternatively include individual contributions to team research projects.

PSY A699 Thesis 1-6 CR
Contact Hours: 0 + 3-18
Prerequisites: PSY A69.
Registration Restrictions: Candidacy status and permission of thesis chair.

Independent project under the supervision of a thesis advisor and thesis committee, culminating in a document prepared to publication standards.

PSY A699D Dissertation 3-6 CR
Contact Hours: 0 + 9-18
Registration Restrictions: Admission to the Ph.D. Program in Clinical-Community Psychology; passage of Research Competency; approval by the Director of Clinical Training.

Special Note: Students may enroll for variable credit, but 18 credits are both the minimum required and the maximum allowed for graduation.

Involves independent empirical research under the supervision of an individual dissertation committee. Culminates in a document prepared to publication standards and a public presentation.

RADT - RADIOLOGIC TECHNOLOGY

Offered through the Community and Technical College
Allied Health Sciences Building (AHS), Room 155B,
786-6929
www.uaa.alaska.edu/ctc/alliedhealth/radtech

RADT A101 Radiation Protection and Biology for Limited Radiography Professionals 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Must be 18 years or older
Special Fees.

Introduces theory and application of diagnostic radiography for limited radiographers. Includes medical and legal responsibilities of radiography, principles of radiation protection, equipment operation and maintenance, image production and evaluation, and patient care and management.

RADT A102 Principles of Radiography for Limited Practice I 3 CR
Contact Hours: 3 + 0
Prerequisites: RADT A101.

Applies the concepts of technique selection, radiographic accessories, exposure and processing, and radiation protection. Radiographic anatomy, patient care skills, body mechanics, and radiographic positioning skills will be emphasized.
RADT A103 Radiographic Procedures for Limited Practice II 3 CR
Contact Hours: 3 + 0
Prerequisites: RADT A101.
Offers the opportunity to apply the concepts of technique selection, radiographic accessories, exposure, processing, and radiation protection. Specific radiographic anatomy, patient care skills, body mechanics, and radiographic positioning skills will be emphasized. Application areas include procedures in abdomen, and axial and appendicular skeleton.

RADT A104 Radiographic Procedures for Limited Practice III 2 CR
Contact Hours: 1 + 2
Prerequisites: RADT A101.
Covers basic principles of radiographic procedures in performing skull and trauma examinations. Continues to incorporate radiographic terminology and anatomy and allows for demonstration, practice, and evaluation of performance in a laboratory environment.

RADT A111 Introduction to Radiologic Technology and Patient Care 3 CR
Contact Hours: 2.5 + 1
Registration Restrictions: Department approval. Special Fees.
Provides an overview of radiography and the practitioner's role in the health care delivery system. Examines principles, practices, and policies of health care organizations, basic concepts of patient care, occupational safety, patient consent, and medical ethics and law as it relates to the profession.

RADT A131 Radiographic Procedures I 3 CR
Contact Hours: 2 + 3
Registration Restrictions: Department approval
Prerequisites: RADT A131.
Provides instruction regarding basic principles of radiographic procedures in performing examinations of the chest, abdomen, skeleton, and pelvic girdle. Introduces the principles of radiation protection. Incorporates radiographic terminology and anatomy and allows for demonstration, practice, and evaluation of techniques in a laboratory environment.

RADT A132 Radiographic Procedures II 3 CR
Contact Hours: 2 + 3
Prerequisites: RADT A132.
Registration Restrictions: Department approval
Special Fees.
Provides instruction regarding basic principles of radiographic procedures in performing examinations of the spine, bony thorax, alimentary tract, genitourinary system, and associated specialized procedures. Incorporates radiographic terminology and anatomy and allows for demonstration, practice, simulation, and evaluation of techniques in a laboratory environment.

RADT A133 Radiographic Procedures 3 CR
Contact Hours: 2 + 2
Prerequisites: RADT A133.
Registration Restrictions: Department approval
Special Fees.
Provides instruction regarding basic principles of radiographic procedures in performing examinations of the spine, bony thorax, alimentary tract, genitourinary system, and associated specialized procedures. Incorporates radiographic terminology and anatomy and allows for demonstration, practice, simulation, and evaluation of techniques in a laboratory environment.

RADT A151 Medical Imaging Physics 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Department approval
Provides fundamental knowledge of atomic structure and terminology, the nature and characteristics of radiation, x-ray production, and the fundamentals of photon interactions with matter. Includes introduction to accessory devices that influence image quality and patient exposure.

RADT A161 Fundamentals of Medical Imaging 3 CR
Contact Hours: 3 + 0
Prerequisites: RADT A131 and RADT A151.
Provides knowledge of equipment requirements and design for radiographic, fluoroscopic, mobile, and conventional tomographic units. Includes introduction to electronic imaging concepts, applications, imaging standards, and computer usage with imaging equipment. Includes an understanding of the development and use of radiographic techniques.

RADT A171 Fundamentals of Medical Imaging II 3 CR
Contact Hours: 3 + 0
Prerequisites: RADT A161.
Introduces principles regarding factors that govern and influence the production and recording of radiographic images. Film and electronic imaging with related accessories will be emphasized. Provides concepts that emphasize the importance of imaging standards, discussion of problem solving techniques for image evaluation, and factors that affect image quality.

RADT A195A Radiography Practicum I 2 CR
Contact Hours: 1 + 8
Registration Restrictions: Department approval
Special Fees.
Provides an opportunity to observe, participate, and apply basic radiographic skills in a structured and supervised health care environment, including patient interaction in the performance of examinations of the chest, abdomen, upper and lower extremities, and pelvic girdle. Duties are assigned by the UAA instructor and supervised by an ARRT registered radiologic technologist.

RADT A195B Radiography Practicum II 3 CR
Contact Hours: 0 + 16
Registration Restrictions: Department approval
Grade Mode: Pass/No Pass.
Provides structured and supervised application of radiographic skills in a health care facility, including patient interaction in the performance of examinations of the spine, thorax, upper and lower gastrointestinal, and genitourinary systems. Provides opportunity for continued development of previously gained practicum experience. Duties are assigned by the UAA instructor and supervised by an ARRT registered radiologic technologist.

RADT A195C Radiography Practicum III 3 CR
Contact Hours: 0 + 13
Registration Restrictions: Department approval
Grade Mode: Pass/No Pass.
Provides structured and supervised application of radiographic skills in a health care facility, including patient interaction in the performance of examinations of the cranium, as well as trauma, mobile, and pediatric radiography. Provides opportunity for continued development of previous experience gained in the clinical environment. Duties are assigned by UAA instructor and supervised by an ARRT registered radiologic technologist.

RADT A211 Radiologic Pharmacology and Drug Administration 1 CR
Contact Hours: 1 + 0
Prerequisites: RADT A195C.
Provides practical concepts of pharmacology. Explains theory and practice of basic techniques of venipuncture and the administration of diagnostic contrast agents and/or intravenous medications. Emphasis is placed on appropriate delivery of patient care during procedures.

RADT A251 Radiobiology and Protection 2 CR
Contact Hours: 2 + 0
Prerequisites: RADT A171.
Provides a comprehensive overview of the principles of radiation protection as they pertain to the interaction of radiation with living systems. Discusses effects of radiation on molecules, cells, tissues, and the body systems. Factors affecting biological response are presented, including acute and chronic effects of radiation.

RADT A272 Quality Control in Medical Imaging 2 CR
Contact Hours: 2 + 0
Prerequisites: RADT A171.
Registration Restrictions: Prerequisite or Registered Radiologic Technologist.
Provides introduction to principles and practices governing quality control programs in medical imaging. Demonstrates the interrelatedness of accreditation, certification, licensure, and service delivery standards. Discusses the operational and administrative aspects of quality control as it relates to quality management.

RADT A280 Medical Imaging Pathology 3 CR
Contact Hours: 3 + 0
Prerequisites: RADT A133.
Registration Restrictions: Prerequisite or Registered Radiologic Technologist.
Provides an introduction to the theories of disease causation and the pathophysiologic disorders that compromise healthy systems. Etiology, pathophysiologic responses, clinical manifestations, radiographic appearance, and management of alterations in body systems are presented. Multiple imaging modalities for pathologic correlation are included.
COURSE DESCRIPTIONS

RH A282 Current Issues in Radiologic Technology 1 CR
Contact Hours: 0 + 3
Prerequisites: RADT A133 and RADT A195C.
Provides the opportunity to investigate current trends in Radiologic Technology. With the guidance of faculty the student will determine an area of investigative interest by selecting, technical, social, political, or economic aspects of Radiologic Technology.

RH A295A Radiography Practicum IV 5 CR
Contact Hours: 0 + 24
Prerequisites: RADT A195C.
Grade Mode: Pass/No Pass.
Special Fees.
Provides opportunities for direct and indirect supervised development of radiographic skills in a health care facility, including patient interaction in the performance of select radiographic examinations. Continues the development of previous learned clinical skills.

RH A295B Radiography Practicum V 5 CR
Contact Hours: 0 + 24
Prerequisites: RADT A295A.
Grade Mode: Pass/No Pass.
Special Fees.
Provides continued opportunities for direct and indirect supervised development of radiographic skills in a health care facility, including patient interaction in the performance of select radiographic examinations. Continues the development of previous learned clinical skills. Concludes the development of career entry skills for the Radiologic Technologist.

RH A311 Mammography for Imaging Professionals 2/3 CR
Contact Hours: 2 or 0+3
Registration Restrictions: Registered or registry-eligible technologist or instructor permission.
Grade Mode: Pass/No Pass.
Special Note: This course may be taken as a 2-credit course (30 hours didactic only) or as a 3-credit course (30 hours didactic plus 45 hours practicum).
Provides knowledge and skills required of a certified mammographer. Provides the necessary didactic requirements (30 hours) and practicum requirements (45 hours) for mammography associated with the Food and Drug Administration (FDA) Mammography Quality Standards Act required by the Federal government. Prepares the students to sit for the ARRT National Certification Examination, which is required by the MQSA Standards.

RH - REFRIGERATION & HEATING
Offered through Matanuska-Susitna College
P.O. Box 2889, Palmer, Alaska, 99645, (907) 745-9715
www.matsu.alaska.edu

RH A101 Refrigeration and Air Conditioning Fundamentals 4 CR
Contact Hours: 3 + 2
Offered only at Matanuska-Susitna College.
Explores compressors, condensers, evaporators, metering devices, and related components. Offers instruction in the proper use of tools and testing devices applicable to the HVAC/R trades, and experimentation with refrigeration system training devices. Provides instruction and experience on piping layout and assembly. Provides students with practice at swaging, flaring, bending, soldering, and brazing. Includes design, construction, service, and repair of household refrigerators and freezers.

RH A103 Technical Mathematics for Industrial Trades 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Practical use of mathematics as applied to trade and vocational work, designed to increase skills involving trade and technical problems. Covers fractions, decimals, percentage, powers of numbers, and basic algebraic elements. Also explores geometric concepts, ration and proportion, scale drawings, and trigonometric functions.

RH A105 Electrical Circuits for Refrigeration and Heating I 3 CR
Contact Hours: 2 + 2
Offered only at Matanuska-Susitna College.
Explores the fundamentals of energy, sources of electricity, conductors and semiconductors, insulators, inductance, capacitance, resistance, and AC-DC motors. Provides students with the opportunity to apply principles and develop skills by using test instruments and training devices.

RH A109 Principles of Thermodynamics 3 CR
Contact Hours: 3 + 0
Corequisite: RH A103.
Offered only at Matanuska-Susitna College.
Focius on physical laws applied to refrigeration and heating. Introduces practical aspects of psychrometrics, load calculations, heat quantities, heat transfer, insulation factors and coefficients, gas laws, and heat and water vapor flow through structures.

RH A122 Refrigeration and Air Conditioning 4 CR
Contact Hours: 3 + 2
Prerequisites: RH A101 and RH A105 and RH A109.
Offered only at Matanuska-Susitna College.
Introduces and analyzes the chemical composition and properties of various refrigerants. Application of this analysis to “Shop-job” situations, using “Live” equipment and refrigeration training devices by diagnosing and correcting various malfunctions. Instruction in the safe handling and storage of refrigerants.

RH A126 Electrical Circuits for Refrigeration and Heating II 3 CR
Contact Hours: 2 + 2
Prerequisites: RH A103 and RH A105.
Offered only at Matanuska-Susitna College.
Explores schematic wiring diagrams and electrical circuits, alternating current, electric meters, single-phase motors, motor protection, and three-phase motors. Familiarization exercises dealing with air conditioning circuits and the ability to troubleshoot malfunctioning equipment will be covered.

RH A132 Troubleshooting for HVAC/R Systems 3 CR
Contact Hours: 2 + 2
Prerequisites: RH A101 and RH A105 and RH A109.
Offered only at Matanuska-Susitna College.
Emphasis on systematically analyzing and troubleshooting HVAC/R systems to include mechanical, electrical, piping, and control systems. Heavy emphasis on lab activities and training devices. Actual equipment with component faults is used to strengthen and test troubleshooting skills.

RH A201 Commercial and Ammonia Refrigeration 4 CR
Contact Hours: 3 + 2
Prerequisites: RH A122.
Offered only at Matanuska-Susitna College.
Provides an understanding of commercial refrigeration systems including hot gas defrosting, lubrication, contaminants, pipe sizing, etc. Introduces ammonia refrigeration including safety start-up and diagnosis of an operational ammonia liquid overflow system.

RH A203 HVAC/R Basic Controls 3 CR
Contact Hours: 2 + 2
Prerequisites: RH A126.
Offered only at Matanuska-Susitna College.
Introduces concepts and components of basic residential and commercial heating and cooling control applications. Associated lab exercises are designed to provide an understanding of the operation, troubleshooting, and repair of basic system components. Explores primary burner controls for forced air and hydronic control systems.

RH A209 Codes for HVAC/R 2 CR
Contact Hours: 2 + 0
Offered only at Matanuska-Susitna College.
Introduces current mechanical codes as adopted by the State of Alaska and covers sections of the Uniform Mechanical Code and the National Fuel Gas Code related to general heating, ventilation, and air conditioning work.

RH A211 Customer Relations and Job Etiquette 1 CR
Contact Hours: 1 + 0
Offered only at Matanuska-Susitna College.
Explores methods, protocols, and techniques to build and maintain positive relationships with customers. Identifies a variety of characteristics and related behaviors required of a successful, productive, heating, ventilation, and air conditioning technician.

RH A225 Heating Fundamentals and Forced Air Heat 4 CR
Contact Hours: 3 + 2
Prerequisites: RH A105 and RH A126.
Offered only at Matanuska-Susitna College.
Assumes no previous knowledge of heating plants. Introduces knowledge and skills needed for the installation and service of forced air heating systems. Instruction ranges from beginning maintenance and installation to advanced troubleshooting of heating systems.
RUSS - RUSSIAN

Offered through the College of Arts and Sciences
Administration/Humanities Building (ADM), Suite 287, 786-4030
www.uaa.alaska.edu/languages

RUSS A101  Elementary Russian I  4 CR
Contact Hours: 4 + 0
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Introductory course for students with no previous knowledge of the Russian language. Develops listening, speaking, reading, and writing skills in Russian for effective communication at the elementary level. Students gain understanding of basic cross-cultural perspectives. Course conducted in Russian.

RUSS A101E  Elementary Russian I  3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Humanities Requirement.
Offered only at extended colleges.
Special Fees.
Introduces Russian language and culture for students with no background in Russian. Students learn alphabet, past and future tenses, and read simple paragraphs. Focuses on life in the Russian-speaking countries. Emphasizes conversation.

RUSS A102  Elementary Russian II  4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A101.
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Continuation of introductory course. Further develops listening, speaking, reading, and writing skills in Russian for effective communication. Enhances appreciation of cross-cultural perspectives. Course conducted in Russian.

RUSS A201  Intermediate Russian I  4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A102.
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Intermediate course for students with basic knowledge of Russian. Enhances listening, speaking, reading, and writing skills for effective communication at the intermediate level. Students critically examine diverse cultural perspectives. Course conducted in Russian.

RUSS A202  Intermediate Russian II  4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A201.
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Continuation of first semester in intermediate Russian. Further develops listening, speaking, reading, and writing proficiency for effective communication and in preparation for advanced study of Russian. Students interpret diverse cultural perspectives. Course conducted in Russian.

RUSS A205  Conversational Skills II  1 CR
Contact Hours: 0 + 2
Registration Restrictions: Proficiency as after two semesters of college-level or two years of high school study in Russian.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: May be repeated once for credit.
A maintenance and skills enhancement course for intermediate students of Russian, designed primarily to help them to retain and solidify what they have learned in Elementary Russian. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

RUSS A301  Advanced Russian I  4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A202 with minimum grade of C.
Special Fees.
Special Note: Offered only in the fall semester.
Advanced course for students with previous knowledge of Russian. Further development of speaking, listening, reading and writing proficiency. Students are introduced to more sophisticated grammatical structures and to a wide range of discussion topics. Activities include class discussions, reading Russian texts and writing short essays. Conducted mainly in Russian.

RUSS A302  Advanced Russian II  4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A301 with minimum grade of C.
Special Fees.
Special Note: Offered only in the spring semester.
Advanced course for students with previous knowledge of Russian. Further development of students' speaking, listening, reading and writing proficiency. Students are introduced to more sophisticated grammatical structures and to a wide range of discussion topics. Activities include class discussions, reading Russian texts and writing short essays. Conducted mainly in Russian.

RUSS A384  Russian Women  3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: Readings and course are conducted in English.
Examines literary images and historical contributions of Russian women through memoirs, novels, and historical and literary analysis. The central questions of the course revolve around the predominant ideals, images, and expectations of Russian women and how these values have been expressed.

RUSS A390  Selected Topics in Advanced Russian  3 CR
Contact Hours: 3 + 0
Prerequisites: RUSS A202.
Registration Restrictions: RUSS A301 and RUSS A302 strongly recommended.
Special Fees.
Special Note: Conducted in Russian. May be repeated for credit with a change of subtitle.
A continuation of Russian 301. Further development of students' speaking, listening, reading and writing proficiency. Students are introduced to more sophisticated grammatical structures and to a wide range of discussion topics. Activities include class discussions, reading Russian texts and writing short essays. Conducted mainly in Russian.

RUSS A390B  Topics in Advanced Language  1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: RUSS A202.
Special Fees.
Special Note: May be offered in 1-, 2-, or 3-credit segments. Repeatable for credit with a change of subtitle. Up to 3 credits can count toward a minor or major in Languages with an emphasis in Russian.
A focused examination of a single aspect of the Russian language.

RH A226  Commercial HVAC/R Systems  4 CR
Contact Hours: 3 + 2
Prerequisites: RH A105.
Offered only at Matanuska-Susitna College.
Introduces commercial heating, ventilation, and air conditioning systems by category and application types. Includes both air-side and water-side systems along with humidification, ventilation, and air filtration requirements.

RH A228  Advanced Hydronic Heat Systems  4 CR
Contact Hours: 3 + 2
Prerequisites: RH A225.
Offered only at Matanuska-Susitna College.
Explores hydronic heating sources and emitters. Covers residential and light commercial boilers and hydronic heating systems. Includes radiant panel heating with a strong emphasis on wiring and troubleshooting of hydronic controls.

RH A229  HVAC/R Control Systems  3 CR
Contact Hours: 2 + 2
Prerequisites: RH A126.
Offered only at Matanuska-Susitna College.
Provides a survey of heating, ventilation, and air conditioning control systems and control theory. Topics include pneumatic, electronic, and direct digital control systems. Lab exercises will be performed on training equipment for each of these system types.

RH A232  HVAC/R Sheet Metal  3 CR
Contact Hours: 2 + 2
Offered only at Matanuska-Susitna College.
Introduces the fundamentals of layout, cutting, forming, and fabricating of sheet metal and air conditioning. Blends basic principles with contemporary tools and Sheet Metal and Air Conditioning Contractors National Association (SMACNA) Duct Construction Standards.

RH A290  Selected Topics in Refrigeration and Heating  1-3 CR
Contact Hours: 0.3 + 0.9
Offered only at Matanuska-Susitna College.
Special Fees.
Special Note: May be repeated up to 6 credits with change of subtitle.
Topics in heating, ventilating, air conditioning, and refrigeration (HVAC/R): such as theory, problem solving, system operation, economic analysis, specialized applications, performance optimization, or specialized study in an area of the trade.

RH A313  Construction Standards.  1 CR
Special Note: May be repeated up to 3 credits with change of subtitle. Up to 3 credits can count toward a minor or major in Languages with an emphasis in Russian.

RH A383  Selected Topics in HVAC/R  1 CR
Contact Hours: 3 + 0
Prerequisites: RH A226.
Registration Restrictions: RUSS A301 and RUSS A302 strongly recommended.
Special Fees.
Special Note: Conducted in Russian. May be repeated for credit with a change of subtitle.
An advanced course for students interested in conversation, listening and writing practice, advanced topics in grammar, and cultural information about the Russian speaking world. Topics will vary.

RH A384  Topics in HVAC/R  1 CR
Contact Hours: 3 + 0
Prerequisites: RH A226.
Registration Restrictions: RUSS A301 and RUSS A302 strongly recommended.
Special Fees.
Special Note: Conducted in Russian. May be repeated for credit with a change of subtitle.
An advanced course for students interested in conversation, listening and writing practice, advanced topics in grammar, and cultural information about the Russian speaking world. Topics will vary.

RH A390  Selected Topics in HVAC/R  3 CR
Contact Hours: 3 + 0
Prerequisites: RH A226.
Registration Restrictions: RUSS A301 and RUSS A302 strongly recommended.
Special Fees.
Special Note: Conducted in Russian. May be repeated for credit with a change of subtitle.
An advanced course for students interested in conversation, listening and writing practice, advanced topics in grammar, and cultural information about the Russian speaking world. Topics will vary.
## Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours:</th>
<th>Prerequisites</th>
<th>Registration Restrictions</th>
<th>Course Attributes</th>
<th>Special Note</th>
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<tbody>
<tr>
<td>RUSS A427</td>
<td>Post-Soviet Culture and Society</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>HIST A102</td>
<td></td>
<td>UAA GER Social Sciences Requirement</td>
<td>Offered Alternate Spring Semesters.</td>
</tr>
<tr>
<td>RUSS A409A</td>
<td>Selected Topics in Russian Culture</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
<td>RUSS A302</td>
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<td>Special Fees.</td>
</tr>
<tr>
<td>RUSS A409B</td>
<td>Selected Topics: Russian Culture in Translation</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
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<td>Special Fees.</td>
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<tr>
<td>SOC A101</td>
<td>Introduction to Sociology</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>UAA GER Social Sciences Requirement</td>
<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td>SOC A110</td>
<td>Introduction to Gerontology: Multidisciplinary Approach</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>UAA GER Social Sciences Requirement</td>
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<tr>
<td>SOC A201</td>
<td>Social Problems and Solutions</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>UAA GER Social Sciences Requirement</td>
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<tr>
<td>SOC A202</td>
<td>The Social Organization of Society</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>UAA GER Social Sciences Requirement</td>
<td>Offered Alternate Fall Semesters.</td>
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<tr>
<td>SOC A203</td>
<td>Juvenile Delinquency</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>SOC A101</td>
<td></td>
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<td>Prerequisites: SOC A101. Crosslisted with: JUST A203.</td>
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<tr>
<td>SOC A242</td>
<td>An Introduction to Marriage, Family and Intimate Relationships</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Special Fees. Offered Fall and Spring Semesters.</td>
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<tr>
<td>SOC A246</td>
<td>Adolescence</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Special Fees.</td>
</tr>
<tr>
<td>SOC A251</td>
<td>Crime and Delinquency</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JUST A110 or SOC A101.</td>
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<td></td>
<td>Crosslisted with: JUST A251. Course Attributes: UAA GER Social Sciences Requirement. Theoretical perspectives on the causes, consequences, and control of crime and delinquency. Survey of the major theoretical perspectives in the study of crime and delinquency with special attention to the application of empirical research methods to important theoretical issues.</td>
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<tr>
<td>SOC A280</td>
<td>Seminar in Contemporary Issues</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Special Note: Subtitle varies; may be repeated for credit with a different subtitle. Analyzes contemporary issues from a variety of social science perspectives.</td>
</tr>
<tr>
<td>SOC A307</td>
<td>Demography</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>SOC A101</td>
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<td>Analysis of world populations: growth and decline patterns, migratory trends and ecology; worldwide implications to current population growth; critical review of major theoretical contributions, with introduction to demographic methods.</td>
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<tr>
<td>SOC A309</td>
<td>Urban Sociology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>SOC A101</td>
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<td>Special Note: Offered Spring Semesters. Growth and development of urban communities with reference to migration patterns, differentiation of functions, ecological patterns of land use, social control, and secondary group associations of metropolitan magnitude.</td>
</tr>
<tr>
<td>SOC A310</td>
<td>Sociology of Aging</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>SOC A101 or SOC A110.</td>
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<td>Registration Restrictions: SOC A110 for Gerontology Minors. A comparative analysis of the social status and role of the aging in various societies with emphasis on problems of aging in contemporary U.S.</td>
</tr>
<tr>
<td>SOC A342</td>
<td>Sexual, Marital and Family Lifestyles</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>SOC A101</td>
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<td></td>
<td>Special Fees. Crosslisted with: SOC A101. Course Attributes: UAA GER Social Sciences Requirement. An upper-division course which emphasizes theories and research that explain today's marital, family and sexual lifestyles, as well as class and cultural variations found in the U.S. It includes a survey of why and how people meet, interact, love, fight, change, sustain or dissolve relationships, have children and age together.</td>
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<tr>
<td>SOC A343</td>
<td>Sociology of Deviant Behavior</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>SOC A101</td>
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<td>Prerequisites: SOC A101. Special Note: Offered Spring Semesters. A study of the social etiology of deviant behavior, both criminal and non-criminal with an emphasis on the nature of group interaction, and an examination of the institutions involved.</td>
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<td>Course Code</td>
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<tr>
<td>SOC A347</td>
<td>Sociology of Religion</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SOC A101.</td>
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<tr>
<td>Special Note: Offered Spring Semesters.</td>
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<tr>
<td>The study of the historical development and functional significance of religion, values, and forms of institutions, groups, reform movements, and their influence on social organization.</td>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>SOC A351</td>
<td>Political Sociology</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: [ENGL A211 or ENGL A212 or ENGL A213 or ENGL A214] and [PS A102 or SOC A210].</td>
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<tr>
<td>Crosslisted with: PS A351.</td>
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<tr>
<td>Course Attributes: UAA GER Social Sciences Requirement.</td>
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<tr>
<td>Introduction to the social aspects of politics and the nature and distribution of power in society. Examination of the dynamic relationship of the political process and the institutions of society.</td>
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<th>Course Code</th>
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<tbody>
<tr>
<td>SOC A352</td>
<td>Women and Social Action</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SOC A101.</td>
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<tr>
<td>Demonstrates how sociological and feminist theory and research can be applied to solving social issues in communities. Also demonstrates how women working together can empower themselves, their families, and their communities.</td>
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<tbody>
<tr>
<td>SOC A361</td>
<td>Social Science Research Methods</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SOC A101 or PS A102.</td>
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<tr>
<td>Crosslisted with: PS A361.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Special Note: Offered Fall and Spring Semesters.</td>
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<tr>
<td>Introduces research methods, including definition of research problems, development of hypotheses, experimental and non-experimental research design, sampling, and data collection and analysis. Students participate in field exercises to develop critical capacities for evaluating research studies.</td>
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<tbody>
<tr>
<td>SOC A363</td>
<td>Social Stratification</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SOC A101.</td>
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<tr>
<td>Special Note: Offered Fall Semesters.</td>
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<tr>
<td>The study of the differential distribution of social power, privilege and life chances in class and caste as the basis for social organization. Emphasis on occupational, educational, and other correlates which determine social structure.</td>
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<tbody>
<tr>
<td>SOC A370</td>
<td>Medical Sociology</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SOC A101.</td>
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<tr>
<td>Crosslisted with: HS A370.</td>
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<tr>
<td>Special Note: Offered Alternate Fall Semesters.</td>
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<tr>
<td>Provides a historical and contemporary overview of selected social, political, and economic factors that influence the provision of health care in America. Focuses on the relationship between health care and race, sex, social stratification, and geographical location. Brief international comparisons with alternative for-profit and not-for-profit national health care systems.</td>
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<tbody>
<tr>
<td>SOC A375</td>
<td>Social Psychology</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: PSY A111 or SOC A101.</td>
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<tr>
<td>Introduces differences in sociological approaches to social psychology. Effects of group interaction and social structural factors on individuals' values, attitudes, and behaviors are examined. Topics include socialization, perception, interpersonal relationships, conformity, helping behavior, aggression, and collective behavior. Theory, research, and application emphasized.</td>
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<tbody>
<tr>
<td>SOC A377</td>
<td>Men, Women and Change</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SOC A101 or SOC A275.</td>
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<tr>
<td>Special Note: Offered Fall Semesters.</td>
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<tr>
<td>Examines how gender in our society affects from birth individuals' roles, socialization, achievements, opportunities, and overall personality and self-development. Studies changes that have taken place over the past several decades. Relevant theories and research form the foundation of the course.</td>
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<tbody>
<tr>
<td>SOC A387</td>
<td>Gay and Lesbian Lifestyles</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SOC A101 and PSY A111.</td>
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<tr>
<td>Special Note: Offered Alternate Spring Semesters.</td>
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<tr>
<td>An overview of historical and theoretical factors relevant to gay and lesbian psychosocial development. Participation and acceptance in religion, the military, education, and the workforce will be considered with some emphasis on civil rights and discrimination.</td>
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<tbody>
<tr>
<td>SOC A402</td>
<td>Theories of Sociology</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SOC A101.</td>
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<tr>
<td>Special Note: Offered Fall and Spring Semesters.</td>
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<tr>
<td>Major sociological theories and theorists of Western civilization; review of important contributions and approaches of various “National schools” with emphasis on current American and European trends.</td>
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<tbody>
<tr>
<td>SOC A404</td>
<td>Environmental Sociology</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SOC A101.</td>
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<td>Special Note: Offered Alternate Spring Semesters.</td>
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<tr>
<td>A critical analysis of the interactions between society and the environment from an ecological perspective, focusing on processes of industrial and economic growth, natural resource development, community change and social impact assessment, environmental values and environmental movement, land use planning and resource management decision making, and comparative perspectives on human relation to and use of the natural environment.</td>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SOC A405</td>
<td>Social Change</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SOC A101.</td>
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<td>Special Note: Offered Fall Semesters.</td>
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<tr>
<td>Social change in long-time perspective, with emphasis on social movements and the influence of technology.</td>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>SOC A407</td>
<td>Formal Organizations</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SOC A101.</td>
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<td>Special Note: Offered Fall Semesters.</td>
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<tr>
<td>Modern formal organizations are examined in historical and contemporary contexts. Interrelationships between organizational structures, stakeholders, and environments are examined. Current trends in management and organizational analysis are reviewed. Profit-driven, as well as non-profit corporations are considered, as are social welfare, government, social policy, and educational organizations. The multiple roles of middle managers are given specific attention, as preparation for entry into student internships, practice, and the job market.</td>
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<tr>
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<tbody>
<tr>
<td>SOC A408</td>
<td>Sociology of Race and Ethnicity</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SOC A101.</td>
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<td>Special Note: Offered Spring Semesters.</td>
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<tr>
<td>Present status of ethnic, religious and national minorities and their changing sociological, economic, and political status.</td>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>SOC A452</td>
<td>Violence in Intimate Relationships</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SOC A101.</td>
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<tr>
<td>Registration Restrictions: Social research methods recommended.</td>
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<td>Special Note: Offered Fall Semesters.</td>
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<td>The study of violence among individuals who are at least theoretically linked together in intimate relationships (e.g., family members, lovers and dates) from a sociological perspective. Thus, the course focuses on factors in society such as norms, laws and institutes that may produce and/or perpetuate violence among intimates. In addition, the course focuses on current prevention and treatment programs aimed at reducing this type of violence.</td>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>SOC A453</td>
<td>Application of Statistics to the Social Sciences</td>
<td>4 CR</td>
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<tr>
<td>Contact Hours: 3 + 2</td>
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<tr>
<td>Prerequisites: [PSY A260 or STAT A252 or STAT A253] and [PSY A261 or SOC A361].</td>
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<tr>
<td>Crosslisted with: PSY A453.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Special Note: Offered Spring Semesters.</td>
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<tr>
<td>Demonstrates application of statistics to various types of studies in the social sciences. Students analyze social science journal articles that utilize statistics.</td>
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<th>Course Code</th>
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<tbody>
<tr>
<td>SOC A487</td>
<td>Sociology Practicum</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Registration Restrictions: Faculty permission.</td>
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<td>Special Note: May be repeated once for credit. Offered Fall and Spring Semesters.</td>
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<tr>
<td>Course in which student participates in a significant field research project and/or community action/agency program that applies sociological skills and analysis toward the resolution of specific social problems. Students attend a seminar, class or individual meeting with a faculty member on a weekly basis, and complete a minimum of six hours each week in the field on an approved research or community project which does not have to be localized in the Anchorage area. All students will be expected to participate in the design and program formulation of the project and a final term or progress paper will be required.</td>
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**SOC A488**  
Capstone Seminar  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: SOC A361 and SOC A402.  
Registration Restrictions: Completion of GER Tier I (basic college-level skills) courses and senior standing.  
Course Attributes: UAA GER Integrative Capstone.  
Overview of the discipline emphasizing synthesis of theory and research, critical reflection and evaluation, and recent developments in sociology with social action. Particular emphasis will be given to the integration of sociology with other social sciences.

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**SPAN - SPANISH**

Offered through the College of Arts and Sciences  
Administration/Humanities Building (ADM) Suite 287, 786-4030  
www.uaa.alaska.edu/languages

**SPAN A101**  
Elementary Spanish I  
4 CR  
Contact Hours: 4 + 0  
Course Attributes: UAA GER Humanities Requirement.  
Special Fees.  
Introduction: course for students with no previous knowledge of the Spanish language. Develops listening, speaking, reading, and writing skills in Spanish for effective communication at the elementary level. Students gain understanding of basic cross-cultural perspectives. Course conducted in Spanish.

**SPAN A101E**  
Elementary Spanish I  
3 CR  
Contact Hours: 3 + 0  
Course Attributes: UAA GER Humanities Requirement.  
Offered only at extended colleges.  
Special Fees.  
Foundations of Spanish: alphabet, proper pronunciation, basic vocabulary and sentence structure. Grammar covers articles, gender of nouns, adjectives, pronouns, and regular/irregular verb patterns through preterite tenses. Emphasizes speaking and understanding Spanish through frequent classroom practice and lab exercises.

**SPAN A102**  
Elementary Spanish II  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: SPAN A101.  
Course Attributes: UAA GER Humanities Requirement.  
Special Fees.  
Continuation of introductory course. Further develops elementary listening, speaking, reading, and writing skills in Spanish for effective communication. Enhances appreciation of cross-cultural perspectives. Course conducted in Spanish.

**SPAN A102E**  
Elementary Spanish II  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: SPAN A101E.  
Course Attributes: UAA GER Humanities Requirement.  
Offered only at extended colleges.  
Special Fees.  
Foundations of oral and written Spanish: continuation of basic Spanish vocabulary and grammar. Imperfect, future and conditional tenses, including their compound forms, will be studied along with other verbal patterns.

**SPAN A201**  
Intermediate Spanish I  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: SPAN A102.  
Course Attributes: UAA GER Humanities Requirement.  
Special Fees.  
Intermediate course for students with basic knowledge of Spanish. Enhances listening, speaking, reading, and writing skills for effective communication at the intermediate level. Students critically examine diverse cultural perspectives. Course conducted in Spanish.

**SPAN A201E**  
Intermediate Spanish I  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: SPAN A102E.  
Course Attributes: UAA GER Humanities Requirement.  
Offered only at extended colleges.  
Special Fees.  
Reviews fundamental structures of Spanish grammar and vocabulary. Gives special attention to command forms and present and past subjunctive. Familiarizes students with normal sound and usage of the language by taking dictation, reading and writing short compositions. Enhances essentials of conversational fluency through study of thematic vocabularies and idiomatic expressions.

**SPAN A202**  
Intermediate Spanish II  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: SPAN A201.  
Course Attributes: UAA GER Humanities Requirement.  
Special Fees.  
Continuation of first semester in intermediate Spanish. Further develops listening, speaking, reading, and writing proficiency for effective communication and in preparation for advanced study of Spanish. Students interpret diverse cultural perspectives. Course conducted in Spanish.

**SPAN A301**  
Advanced Spanish I: Composition  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: SPAN A202.  
Special Fees.  
Special Note: Spanish speaking students can gain entrance to the course with the instructor’s signature.  
Studies a wide variety of Spanish model sentences taken from expository writing and excerpts from the works of thinkers known for their insight and mastery of style. Based on this information, students begin writing short, simple compositions and advance into more complex ways of expressing their opinions. The study of synonyms, antonyms, and other vocabulary building techniques, to expand the students’ expressive capacity, is put into practice in regular verbal and written exercises. Conducted in Spanish.

**SPAN A302**  
Advanced Spanish II: Composition and Analysis  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: SPAN A301.  
Special Fees.  
Special Note: Spanish speaking students can gain entrance to the course with the instructor’s signature.  
Continue to achieve language fluency and style through the reading, analysis, and production of expository and literary texts through oral and written exercises. A diversity of progressively more difficult prose samples, short stories, and poetry are presented as archetypes to perfect the student’s expression of ideas in Spanish. Writing practice is complemented by reading assignments and classroom discussion of the most sophisticated texts to prepare students for the literature courses. Conducted in Spanish.

**SPAN A310**  
Spanish Readings and Conversations  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Two years of college Spanish or equivalent.  
Special Fees.  
Special Note: May be repeated for credit.  
Students will improve their conversational skills by participating in skits, interviews, debates, and discussions based on material read. Some grammar introduced informally, but emphasis is on improving listening and speaking skills. Books and activities vary from semester to semester.

**SPAN A432**  
Studies in Literature and Culture (Selected Topics)  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: SPAN A302.  
Special Fees.  
Special Note: May be repeated twice for credit with a change of subtitle. Conducted in Spanish. Offered as Demand Warrants.  
Intensive study of authors, literary movements, periods, and/or genres. Students will also analyze cultural material other than texts. Introduces students to Hispanic literature or various periods and genres in its historical and cultural context.

**SPAN A470**  
Spanish Linguistics-History of the Language  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: SPAN A302.  
Special Fees.  
Special Note: Conducted in Spanish.  
Survey of the history of Spanish from the fall of the Roman Empire to the present. The student will learn the history of some of the most important linguistic changes in Spanish from a synchronic and a diachronic perspective. Special attention will be paid to the linguistic changes (both vocalic, consonantal, and structural) that most affected the transformation of Late Latin an turned it into what can be known as Castilian in the Middle Ages from its inception in the 13th century in a small, isolated area of the Iberian Peninsula. Through readings of contemporary discussions of the intersection between power and language in a cultural setting, the course will analyze the social, political, and historical forces that go into the creation of a national language.
### STAT - STATISTICS

#### COURSE DESCRIPTIONS

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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| STAT A252   | Elementary Statistics                            | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: MATH A105 with minimum grade of C.  
Registration Restrictions: If prerequisite is not satisfied, appropriate SAT, ACT, or AP scores or approved UAA placement test required.  
Course Attributes: UAA GER Quantitative Skill Requirement.  
Special Fees.  
Special Note: A student may apply no more than 3 credits from STAT A252 or BA A273 toward the graduation requirements for a baccalaureate degree.  
Introduction to statistical reasoning. Emphasis on concepts rather than in-depth coverage of traditional statistical methods. Topics include sampling and experimentation, descriptive statistics, probability, binomial and normal distributions, estimation, single-sample and two-sample hypothesis tests. Additional topics will be selected from descriptive methods in regression and correlation, or contingency table analysis. |
| STAT A253   | Applied Statistics for the Sciences             | 4 CR    | Contact Hours: 4 + 0  
Prerequisites: MATH A107 or MATH A109.  
Registration Restrictions: If prerequisite is not satisfied, appropriate SAT, ACT, or AP scores or approved UAA placement test required.  
Course Attributes: UAA GER Quantitative Skill Requirement.  
Special Fees.  
Intensive survey course with applications for the sciences. Topics include descriptive statistics, probability, random variables, binomial, Poisson and normal distributions, estimation and hypothesis testing of common parameters, analysis of variance for single factor and two factors, correlation, and simple linear regression. A major statistical software package will be utilized. |
| STAT A307   | Probability                                     | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: MATH A200 with minimum grade of C or MATH A272 with minimum grade of C.  
Course Attributes: UAA GER Quantitative Skill Requirement.  
Probability, applied combinatorics, random variables, multivariate random variables, discrete distributions, continuous distributions, expectations, and estimation. |
| STAT A308   | Intermediate Statistics for the Sciences        | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: STAT A252 or STAT A253 or STAT A307.  
Registration Restrictions: 100-level Natural Sciences course and a 100-level Social Sciences course, junior standing, and completion of GER Tier 1 (basic college-level skills) courses.  
Course Attributes: UAA GER Integrative Capstone.  
Special Fees.  
Introduction to statistical experimentation and research methods with applications to natural and social sciences. General concepts of estimation and inferences. Systematic coverage of more widely used statistical methods, including simple and multiple regression, single factor and multifactor analysis of variance, multiple comparisons, goodness of fit tests, contingency tables, nonparametric procedures, and power of tests. At least one major statistical software package is introduced to aid calculations required for many of the techniques. Students are expected to make a presentation in an applied field and compete a data-based project as part of the course requirement. |
| STAT A402   | Scientific Sampling                              | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: STAT A252 or STAT A253 or STAT A307.  
Special Fees.  
Sampling methods including simple random, stratified, systematic, and cluster. Special emphasis is placed on estimation procedures including ratio and regression methods, and topics selected from: allocations, direct sampling, inverse sampling, randomized response sampling, computer simulation of random variates, bootstrap, jackknife, and cross-validation. |
| STAT A403   | Regression Analysis                              | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: STAT A308.  
Special Fees.  
Simple and multiple regression, statistical inferences in regression, matrix formulation of regression, polynomial regression, ridge regression, nonlinear regression, and normal correlation models. A major statistical software package is used as a tool to aid calculations required for many of the techniques. |
| STAT A404   | Analysis of Variance                             | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: STAT A308.  
Special Fees.  
Single-factor models, factor effects, nonparametric tests, two-factor models, random and mixed effects models, multifactor studies, analysis of covariance, and selected experimental designs. A major statistical software package is used as a tool to aid calculations required for many of the techniques. |
| STAT A405   | Nonparametric Statistics                         | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: STAT A308.  
Special Fees.  
Nonparametric methods including the binomial test and sign test. Contingency tables with Chi-square tests and goodness-of-fit tests. Tests based on ranks including the Wilcoxon signed ranks test, Mann-Whitney U-test, Kruskal-Wallis test, Friedman test, rank correlation, and Kolmogorov-Smirnov type tests. A major statistical software package is used as a tool to aid calculations required for many of the techniques. |
| STAT A407   | Time Series Analysis                             | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: STAT A307 or STAT A308.  
Special Fees.  
Decomposition of time series, seasonal adjustment methods, and index numbers. Forecasting models, including causal models, trend models, and smoothing models. Additional topics include autoregressive (AR) forecasting models, moving average (MA) forecasting models, and integrated (ARIMA) forecasting models. A major statistical software package is used as a tool to aid calculations required for many of the techniques. |
| STAT A408   | Multivariate Statistics                          | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: STAT A308.  
Special Fees.  
Multivariate statistical methods including exploratory data analysis, geometrical interpretation of multivariate data, multivariate tests of hypotheses, multivariate analysis of variance, multivariate multiple regression, principal components, factor analysis, discriminant analysis, cluster analysis, and multidimensional scaling. A major statistical software package is used as a tool to aid calculations required for many of the techniques. |
| STAT A490   | Selected Topics in Statistics                    | 1-3 CR  | Contact Hours: 1-3 + 0  
Registration Restrictions: Instructor’s permission and a designated STAT course.  
Special Fees.  
Special Note: Depending on topics selected, use of a statistical software package may be required. May be repeated for credit with a change of subtitle. Advanced topics in statistics selected as a continuation of, or a complement to, the content of upper-division undergraduate statistics courses. Emphasis on applications. |
| STAT A601   | Statistical Methods                              | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: STAT A252 or STAT A253.  
Registration Restrictions: Instructor approved introductory statistics course.  
Special Fees.  
Parametric and nonparametric statistical methods in research for graduate students majoring in natural sciences or social sciences. The topics are selected from, but not restricted to, contingency tables and Chi-square tests, correlation, simple linear regression and multiple regression, design and analysis of experiments, logistic regression, and introduction to multivariate statistics. A major statistical software package is used as a tool to aid calculations for many of the techniques. A research project is required from each student as part of the course requirement. |
SWK A106  Introduction to Social Welfare  3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Crosslisted with: HUMS A106.
Course Attributes: UAA GER Social Sciences Requirement.
An introduction to the issues of diversity in the United States from a social work perspective. Focuses on sensitivity to populations at risk of discrimination and oppression. Knowledge and insights gained through the readings, class discussions, and activities will be applied to students' interactions with clients of community-based partner organizations as part of a required service learning component.

SWK A206  Introduction to Social Work  3 CR
Contact Hours: 3 + 0
Prerequisites: HUMS A106 or SWK A106.
Introduces the profession of social work and its place in the social welfare institution. Emphasis is placed upon consumer-centered, generalist social work and the knowledge, skills, abilities, and values necessary for professional practice. Fields of social work practice are studied in terms of the programs and services provided to consumer systems and social work's role within these fields.

SWK A243  Cultural Diversity and Community Service Learning  3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Social Sciences Requirement.
Introduces basic interviewing skills and the planned change process for the social work profession. Emphasis will be on understanding and implementing a planned change process with individuals, supported by social work values, ethics, skills, and theory. Course includes lecture and interviewing lab.

SWK A330  Social Work Practice I  4 CR
Contact Hours: 3 + 2
Prerequisites: SWK A206.
Generalist social work practice course with emphasis on using the planned change process with organizations and communities. Covers selected theoretical frameworks applicable to professional practice with these macro client systems.

SWK A331  Social Work Practice II: Organizations and Communities  3 CR
Contact Hours: 3 + 0
Prerequisites: SWK A330.
An introduction to the issues of diversity in the United States from a social work perspective. Focuses on sensitivity to populations at risk of discrimination and oppression. Knowledge and insights gained through the readings, class discussions, and activities will be applied to students' interactions with clients of community-based partner organizations as part of a required service learning component.

SWK A342  Human Behavior in the Social Environment  3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A150 and [BIOL A102 or BIOL A111 or BIOL A112 or BIOL A115 or BIOL A116 or LSIS A102 or LSIS A201].
Identification and analysis of various theoretical frameworks for understanding human behavior with emphasis on interactions between the individual and the environment. A social systems model serves as the organizing framework for addressing the behavior and development of individuals, groups, families, organizations, and communities with emphasis on the reciprocal influences between individuals, societal institutions, and diverse economic, political, and psychological variables which influence behavior, growth, development, and change.

SWK A363  Great Books in Social Work  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 and [HUMS A106 or SWK A106].
Focuses on the directed reading of a social work text which has enduring significance for the profession, supplemented by other readings. The focal text and supplemental readings will vary with the instructor.

SWK A406  Social Welfare: Policies and Issues  3 CR
Contact Hours: 3 + 0
Prerequisites: SWK A206.
Formulation of social welfare policy as the result of interacting social, political, and economic factors. Emphasis is placed on analyzing various current social welfare policies and on methods of influencing policy development and change.

SWK A409  Introduction to Child Welfare  3 CR
Contact Hours: 3 + 0
Prerequisites: SWK A206.
Introduction to private and public child welfare services from a historical perspective and examination of current child welfare services available to children and their families. National standards for services are reviewed along with policy development, legislation, funding and research related to programs, and service delivery. Services such as in-home support, permanency planning, child protection, foster care, adoption, and residential care will be addressed.

SWK A424  Social Work Research  3 CR
Contact Hours: 3 + 0
Prerequisites: SWK A206.
Introduces students to fundamental research principles and practices in social work. Emphasis is on preparing students to be informed consumers of the professional research literature.

SWK A430  Social Work Practice III: Groups and Families  3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Prepares the student for entry level practice in Alaska's child protection system. Covers the knowledge and skills required to provide investigation, protection, family preservation and permanency planning services to children who have been abused and/or neglected and their families.

SWK A440  Social Work Practice in Mental Health and Addictions  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior or senior standing. Consent of instructor.
Preparation for work in a variety of social service settings in which clients may be coping with problems related to mental disorders and/or addiction. A research based analysis of addictions and mental disorders as they are manifested independently and in combination; and the impact of those disorders upon clients involved in a variety of service systems such as child welfare, corrections, and domestic violence.

SWK A450  Child Protective Services  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior or senior standing. Consent of instructor.
Prepares the student for entry level practice in Alaska's child protection system. Covers the knowledge and skills required to provide investigation, protection, family preservation and permanency planning services to children who have been abused and/or neglected and their families.

SWK A463  Social Work Senior Honors Research Project  3 CR
Contact Hours: 3 + 0
Prerequisites: [HNRS A310 or SWK A243] and SWK A363.
Design and complete a project which demonstrates advanced scholarship in the social work field and which is grounded by theory and professional standards of social work practice. Emphasis of the seminar will be on assisting students to identify and clarify project ideas in a peer-critiqued environment, and on refining knowledge and skills to successfully complete a project of a quantitative or qualitative nature at a micro, mezzo, or macro social work level.

SWK A470  Social Work with the Aging and Elderly  3 CR
Contact Hours: 3 + 0
Development of concepts related to psychological, biological and economic issues of aging and the role of social work in responding to those issues. Gerontological content from human behavior, social policy, research and direct/indirect practice is analyzed in relation to social work practice with people who are aging and elderly.
SWK A481 Case Management in Social Work Practice 3 CR  
Contact Hours: 3 + 0  
Prerequisites: SWK A330.  
Covers the identification of issues, procedures, responsibilities, skills, and processes for effective case management. Includes theory-based skills regarding client identification and outreach, assessment, service planning, coordination, monitoring, advocacy, and evaluation along with written communication skills for coordinated service delivery. Issues relevant to special client populations are identified and analyzed.

SWK A490 Selected Topics in Social Work 1-3 CR  
Contact Hours: 1-3 + 0  
Registration Restrictions: Junior or Senior level standing. Special Fees.  
Focus on current topics related to social work services, diverse client groups and field of practice.

SWK A495A Social Work Practicum I 6 CR  
Contact Hours: 3 + 15  
Prerequisites: SWK A430.  
Registration Restrictions: Admission to the BSW program at the University of Alaska Anchorage. Corequisite: SWK A431. Special Fees.  
Initial social work practicum/field placement in which knowledge, skills, values, and ethics of generalist social work are applied to client-centered planned change. Emphasis is on application of generalist practice skills in the areas of interviewing, assessment, and planning for client system intervention.

SWK A495B Social Work Practicum II 6 CR  
Contact Hours: 3 + 15  
Prerequisites: SWK A430 and SWK A495A.  
Registration Restrictions: Admission to the BSW program at the University of Alaska Anchorage. Corequisite: SWK A431. Special Fees.  
Continuation of social work practicum/field placement in which knowledge, skills, values, and ethics of generalist social work are applied to client-centered planned change. Emphasis is on application of generalist practice skills in the areas of interviewing, assessment, implementing, evaluating, and terminating client system intervention. Application of social work roles and readiness for entry into the profession are key objectives.

SWK A607 Social Welfare Policy and Services 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Admission to the MSW program at the University of Alaska Anchorage.  
Provides a basic understanding of the history and current patterns of provision of social welfare services in the United States. Content includes the response of the social welfare system to those in need and the role of the legislature, interest groups, and advocates in the policy-making process. Problems and issues that people confront as a result of discrimination are examined. Policy analysis frameworks are used to identify key issues, understand policy development, and assess the impact of social welfare policy in providing economic and social justice for poor and at-risk populations.

SWK A608 Social Policy for Advanced Generalist Practice 3 CR  
Contact Hours: 3 + 0  
Prerequisites: SWK A607.  
Registration Restrictions: Admission to the MSW program at the University of Alaska Anchorage.  
Examines contemporary social needs in a diverse and inequitable society. Emphasizes roles of research and evaluation in a policy process.

SWK A624 Foundation Research Methods 4 CR  
Contact Hours: 3 + 2  
Registration Restrictions: Admission to the MSW program at the University of Alaska Anchorage.  
Introduces students to fundamental research principles and practices in social work. Emphasis is on preparing students to be informed consumers of the professional research literature.

SWK A628 Program Evaluation 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Successful completion of MSW foundation requirements or admission as advanced standing, or graduate standing in Health Sciences. Crosslisted with: HS A628. Special Fees.  
Theory and practice of agency or community-based research and evaluation. Course topics include commonly used evaluation models and research designs, politics and ethics of conducting and using research in an applied setting, communicating findings.

SWK A630 Practice Skills Lab 1 CR  
Contact Hours: 0 + 3  
Registration Restrictions: Admission to the MSW program at the University of Alaska Anchorage.  
Grade Mode: Pass/No Pass. Knowledge and understanding of basic interpersonal skills needed for generalist social work practice. Experience in applying the skills to individual, family, and group settings. Attention to cross-cultural communication skills and nontraditional settings.

SWK A631 Foundation Practice 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Admission to the MSW Program at the University of Alaska Anchorage.  
Introduction to generalist social work practice, focusing on problem-solving and planned change for clients and systems in need of professional intervention. Emphasis is on professional identity, values, ethical and legal issues in practice, functioning on multidisciplinary teams, technical writing, and evidence-based practice.

SWK A632 Direct Practice I 3 CR  
Contact Hours: 3 + 0  
Prerequisites: SWK A631.  
Registration Restrictions: Admission to the MSW Program at the University of Alaska Anchorage.  
Continues the problem-solving/planned change approach with attention to assessment, intervention, and termination. Emphasis is on ways of knowing. Includes evidence-based practice and introduction to bio/psycho/social theories which inform social work practice with individuals, families, and groups. The course also addresses “being a practitioner” within an agency setting.

SWK A633 Direct Practice II 3 CR  
Contact Hours: 3 + 0  
Prerequisites: SWK A633.  
Registration Restrictions: Admission to the MSW Program at the University of Alaska Anchorage with advanced standing or completion of foundation practice sequence.  
Focuses on the application of practice theory in the context of advanced generalist practice. Emphasizes the refinement of skills for assessment, intervention, and evaluation of social work practice with a variety of client systems focusing on the theoretical and empirical justification for those interventions.

SWK A634 Organizational Practice 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Admission to the MSW Program at the University of Alaska Anchorage and successful completion of the foundation practice sequence or advanced standing or admission to the Graduate Certificate in Social Work.  
Provides an ecosystemic perspective for organizational social work practice with programs, staff, organizations, and larger systems. Covers advanced generalist roles such as agency administrator, program planner, supervisor, and community organizer. Specific attention is also given to the challenges encountered when working with larger systems.

SWK A635 Advanced Generalist Integrative Seminar 3 CR  
Contact Hours: 3 + 0  
Prerequisites: SWK A633 and SWK A634.  
Registration Restrictions: Admission to the MSW Program at the University of Alaska Anchorage and successful completion of foundation curriculum or advanced standing.  
Capstone course for the advanced generalist practice sequence. Provides students with the opportunity to integrate ecosystemic theory and problem-solving approaches with direct and organizational practice. Fulfills competency exam requirement.

SWK A636 Community Practice 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Admission to the MSW Program at the University of Alaska Anchorage.  
Focuses on practice roles and skills in community development, community planning and community organizing, and analysis of community practice models.

SWK A639 Advanced Generalist Intensive Practicum 7 CR  
Contact Hours: 3 + 36  
Registration Restrictions: Admission to the MSW Program at the University of Alaska Anchorage with concurrent enrollment in an MSW practice course and either successful completion of foundation curriculum or advanced standing status. Corequisite: SWK A633 or SWK A634 or SWK A635. Special Fees.  
Advanced generalist block practicum in which student performs as an advanced generalist social worker within an organization and/or community context. The student completes seminar and 540 practicum hours in an approved setting under the supervision of a MSW field instructor.
SWK A642  Human Behavior in the Social Environment  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the MSW Program at the University of Alaska Anchorage.
Identification and advanced analysis of various theoretical frameworks for understanding human behavior with emphasis on the reciprocal interactions between the individual and the systems of social environment including families, groups, organizations, and communities.

SWK A643  Human Diversity in Social Work Practice  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the MSW Program at the University of Alaska Anchorage.
Examination of human diversity in relation to discrimination, oppression, and populations at risk. Exploration of strategies that advance social and economic justice. Historical and contemporary influences on group membership and affiliation are addressed along with values, knowledge, and skills for effective generalist social work practice with diverse populations and clients.

SWK A644  Generalist Practicum I  3 CR
Contact Hours: 3 + 16
Registration Restrictions: Admission to the MSW Program at the University of Alaska Anchorage with concurrent enrollment in a MSW practice course.
Corequisite: SWK A632.
Special Fees.
Part one of generalist practicum sequence. Student applies social work knowledge, skills, values, and ethics within an organization and/or community context. The student completes 240 practicum hours in an approved setting under the supervision of a MSW field instructor appointed by the University.

SWK A645  Generalist Practicum II  3 CR
Contact Hours: 3 + 16
Prerequisites: SWK A644.
Registration Restrictions: Admission to the MSW Program at the University of Alaska Anchorage with concurrent enrollment in a MSW practice course.
Corequisite: SWK A636.
Special Fees.
Part two of generalist practicum sequence. Student applies social work knowledge, skills, values, and ethics within an organization and/or community context. The student completes 240 practicum hours in an approved setting under the supervision of a MSW field instructor appointed by the University.

SWK A646  Advanced Generalist Practicum I  3 CR
Contact Hours: 3 + 16
Prerequisites: (SWK A633 or concurrent enrollment) or (SWK A634 or concurrent enrollment).
Registration Restrictions: Admission to the MSW Program at the University of Alaska Anchorage with concurrent enrollment in a MSW practice course.
Special Fees.
Part one of advanced generalist practicum sequence in which student performs as an advanced generalist social worker within an organization and/or community context. The student completes 240 practicum hours in an approved setting under the supervision of a MSW field instructor.

SWK A647  Advanced Generalist Practicum II  4 CR
Contact Hours: 4 + 20
Prerequisites: SWK A646.
Registration Restrictions: Admission to the MSW Program at the University of Alaska Anchorage with concurrent enrollment in an MSW practice course.
Corequisite: SWK A635.
Special Fees.
Part two of advanced generalist practicum sequence in which student performs as an advanced generalist social worker within an organization and/or community context. The student completes 300 practicum hours in an approved setting under the supervision of a field instructor.

SWK A651  Social Work Practice in Addictions and Mental Health  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Must be admitted to, or possess a degree from, an MSW program accredited by the Council on Social Work Education.
Preparation for work in a variety of social service settings in which clients may be coping with problems related to mental disorders and/or addiction. A research-based analysis of addictions and mental disorders as they are manifested independently and in combination and the impact of those disorders upon clients involved in a variety of service systems.

SWK A654  Supervisory Management in Social Work  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Prepares graduate students and practitioners for social work supervisory management roles. The course provides a theoretical framework for supervisory management methods and processes and will address essential knowledge, values, and skills in these professional functions. Issues of gender and race as it relates to supervisory management will also be explored.

SWK A656  Treatment of Families  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to Graduate Studies and the MSW Degree Program.
Explores systems theory with specific attention to applications to and implications for family treatment. Understanding relationship dynamics from a systemic point of view. Major family therapy and treatment approaches, issues, and dynamics.

SWK A659  Leadership and Decision Making in Social Work  3 CR
Contact Hours: 3 + 0
Prerequisites: SWK A634A.
Registration Restrictions: Current MSW students or MSW graduates.
Focuses on leadership and decision-making for potential leaders of social service organizations. Emphasizes the development of decision-making skills and decision-making as a dynamic process. Emphasizes the role of gender and race as they relate to leadership and decision-making.

SWK A660  Financial Leadership for Social Work Administrators  2 CR
Contact Hours: 2 + 0
Prerequisites: SWK A634.
Registration Restrictions: Must be admitted to, or possess a degree from, an MSW program accredited by the Council on Social Work Education.
Focuses on the nature, role, and relevance of social sector marketing, the nature of public relations activities, the major concepts and tools to analyze an organization’s market, and potential strategies/guidelines for the development and implementation of marketing programs.

SWK A661  Marketing in the Social Sector  2 CR
Contact Hours: 2 + 0
Registration Restrictions: Must be admitted to, or possess a degree from, an MSW program accredited by the Council on Social Work Education.
Focuses on the planning, conducting, and evaluation of fundraising activities, the development of mission-based fundraising, donor identification and relations, spectrum-wide fundraising (in-kind support, private support, private/public grants), social entrepreneurship and fundraising ethics and accountability.

SWK A663  Clinical Social Work with Children and Adolescents  2 CR
Contact Hours: 2 + 0
Registration Restrictions: Must be admitted to, or possess a degree from, an MSW program accredited by the Council on Social Work Education.
Prepares advanced clinical social work in a variety of settings with adults suffering from behavioral disorders and problems coping with environmental stressors. Focus upon skills for assessment, application of evidence-based interventions and evaluation.
### TECH - TECHNOLOGY

**Offered through the Community & Technical College**
University Center (UC), Room 130, 786-6423

**www.uaa.alaska.edu/ctc/career/technology.cfm**

#### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Registration Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH A101</td>
<td>Introduction to Technological Principles</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>Prerequisites: (MATH A105 or concurrent enrollment).</td>
</tr>
<tr>
<td>TECH A295</td>
<td>Technical Internship</td>
<td>1-6 CR</td>
<td>0 + 3-18</td>
<td>Registration Restrictions: Instructor permission required. Grade Mode: Pass/No Pass. Special Fees. Provides work experience, familiarization with technical operations and equipment and insight to management practices closely related with technology-rich career fields. Work for the internship is supervised by industry and faculty members.</td>
</tr>
<tr>
<td>TECH A302</td>
<td>Operational Safety</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Tier 1 basic college-level skills Study of safety as a vital element of human behavior. Covers governmental influence, hazard awareness and control, operational considerations in the workplace, accidents and planning.</td>
</tr>
<tr>
<td>TECH A305</td>
<td>Technology Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Tier 1 basic college-level skills Provides an understanding of the various methods of nondestructive examination and the scientific principles upon which they are based and how they interact with various technical concerns. Broadens the education of junior/senior students in all technical and professional disciplines relevant to testing objects in a manner that does not affect future usefulness.</td>
</tr>
<tr>
<td>TECH A412</td>
<td>Advanced Technical Experiences (Discipline Area)</td>
<td>1-9 CR</td>
<td>0 + 3-18</td>
<td></td>
</tr>
<tr>
<td>TECH A415</td>
<td>Accident Investigation</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Prerequisites: TECH A402. Covers system safety approach to accident investigation. Provides processes and analytical tools for accident investigation and analysis to include: MORT-Management Oversight and Risk Tree, Change Analysis, Barrier Analysis, Events and Causal Factors Charting, Root Cause Analysis, MORT-Based Event Analysis, Operational Readiness Analysis, Step Analysis and Task Performance Analysis.</td>
</tr>
<tr>
<td>TECH A416</td>
<td>Safety Appraisal Methodology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: TECH A402. Covers systems methodology for safety appraisals, audits and reviews. Provides processes and methodologies for developing comprehensive appraisal programs which can be applied to all work processes and environments.</td>
</tr>
<tr>
<td>TECH A433</td>
<td>Project Design, Implementation, and Control</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: [MATH A107 or MATH A109] and TECH A305. Comprehensive study of the principles and practices of project planning, implementation, and control as applied by technicians and technical managers.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

TECH A443 Quality Leadership 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A107 or MATH A109.
Registration Restrictions: Junior standing.
Supports the principles and practices of quality leadership. Demonstrates ways to achieve continuous improvement for a successful workplace environment. Emphasizes leadership skills applicable to technicians and managers as they work with customers, subordinates, peers, and superiors.

TECH A453 Capstone Project 3 CR
Contact Hours: 1 + 8
Prerequisites: TECH A305.
Registration Restrictions: Junior standing and faculty approval required. Completion of GER Tier 1 (basic college-level skills) courses.
Course Attributes: UAA GER Integrative Capstone.
Special Note: This is an independent project which requires at least 135 hours of commitment including bi-weekly meetings with faculty advisor and other Bachelor of Science, Technology students.
Integrates technical and general education knowledge to complete a project that demonstrates community involvement related to typical problems or issues in students' career fields.

THR A111 Introduction to the Theatre 3 CR
Contact Hours: 3 + 0
Course Attributes: UAA GER Fine Arts Requirement.
Survey of theatre with focus on artists who contribute to theatrical production viewed within the context of historical styles and development.

THR A121 Introduction to Acting 3 CR
Contact Hours: 2 + 3
An introduction to basic acting techniques with emphasis on creativity, concentration, relaxation, physical and vocal awareness, and the Stanislavsky method of acting.

THR A124 Dance for Musical Theatre I 2 CR
Contact Hours: 1 + 2
Crosslisted with: DNCE A124.
Special Note: May be repeated three times for credit.
Introduces the vocabulary, variety of movement styles and performance techniques inherent in American musical theatre, including the ability to vocalize correctly during movement. Covers a range of time periods from the 1920s to the present.

THR A131 Theatrical Production Techniques 3 CR
Contact Hours: 2 + 2
Corequisite: THR A131L.
Introduction to the mechanics of stage production. Emphasizes safe and practical use of tools, equipment and materials employed in scene shop, lighting, backstage and costume work. Students master basic practices and techniques required for effective production work in each area.

THR A141 Stagecraft I 3 CR
Contact Hours: 2 + 2
Corequisite: THR A141L.
Workshop in principles and techniques of contemporary theatrical production technical direction, drafting, scenery construction and rigging.

THR A151 Makeup for the Theatre 3 CR
Contact Hours: 3 + 0
Special Fees.
Basic principles of stage make-up techniques emphasizing the structure of the face, character interpretation, stage lighting, historical research for hair and makeup, and special 3-D effects.

THR A195 Theatre Practicum: Performance 1-3 CR
Contact Hours: 0 + 3-9
Registration Restrictions: Faculty permission and audition.
May be stacked with: THR A395.
Participation in mainstage production as an actor, director, or assistant director.

THR A211 Movement for the Actor 3 CR
Contact Hours: 3 + 0
Prerequisites: THR A121.
Study of movement and its specific relationship to acting skills. Work includes analysis of nonverbal communication and developmental physical skills.

THR A222 Voice for the Actor 3 CR
Contact Hours: 3 + 0
Prerequisites: THR A121.
Introduces the acting student to exercises designed to free and increase the expressive power of the voice, with the primary goal being emotional honesty.

THR A224 Dance for Musical Theatre II 2 CR
Contact Hours: 1 + 2
Crosslisted with: DNCE A224.
Special Fees.
Special Note: May be repeated three times for credit.
Continuation of Dance for Musical Theatre I, building on the foundation of vocabulary, movement styles, vocalizing, and performance techniques. Techniques in improving audition skills and perfecting performance ability. Encompasses a range of time periods, from the 1920s to the present.

THR A243 Scene Design 3 CR
Contact Hours: 3 + 0
Prerequisites: THR A131 and THR A141.
Fundamental principles of design for the stage, including drafting, rendering, theory, analysis, and practice.

THR A257 Costume Design and Construction I 3 CR
Contact Hours: 2 + 2
Prerequisites: THR A131.
Corequisite: THR A257L.
Basic principles of costume design with emphasis on research and rendering techniques. Overall study of costume and fashion history and its relation to theatre productions and designs.

THR A295 Theatre Practicum: Technical 1-3 CR
Contact Hours: 0 + 3-9
May be stacked with: THR A495.
Special Note: May be repeated for a maximum of 9 credits.
Participation in mainstage productions as member of technical staff. Credit for scene crew, light crew, props, costume crew, makeup crew, stage management, and publicity.

THR A311 Representative Plays I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior or senior standing and the completion of GER Tier 1 Written Communication requirements.
Course Attributes: UAA GER Fine Arts Requirement UAA GER Humanities Requirement.
A survey course of dramatic literature from Greek drama to 1800. Emphasis is placed upon the playwrights' work and relationship to the production of these plays in their own time and in today's theatre.

THR A312 Representative Plays II 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior or senior standing and the completion of GER Tier 1 Written Communication requirements.
Course Attributes: UAA GER Fine Arts Requirement UAA GER Humanities Requirement.
A survey of dramatic literature from 1800 to the present. Emphasis is placed upon the playwrights' work and relationship to the production of these plays in their own time and in today's theatre.

THR A315 Playwriting Workshop 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses.
Study and practice of script development for the stage. Class will involve staged readings of student work.

THR A321 Meisner Acting Technique 3 CR
Contact Hours: 2 + 3
Prerequisites: THR A121.
Registration Restrictions: Instructor permission.
Improvisational technique created by Sanford Meisner to help actors feel, rather than think, their way through a scene by responding to inner impulses.

THR A322 Voice for the Actor 3 CR
Contact Hours: 3 + 0
Prerequisites: THR A121.
Introduces the acting student to exercises designed to free and increase the expressive power of the voice, with the primary goal being emotional honesty.

THR A355 Movement for the Actor 3 CR
Contact Hours: 3 + 0
Prerequisites: THR A121.
Study of movement and its specific relationship to acting skills. Work includes analysis of nonverbal communication and developmental physical skills.

THR A395 Theatre Practicum: Performance 1-3 CR
Contact Hours: 0 + 3-9
Registration Restrictions: Faculty permission and audition.
May be stacked with: THR A395.
Participation in mainstage production as an actor, director, or assistant director.
THR A325  Theatre Speech and Dialects  3 CR
Contact Hours: 3 + 0
Prerequisites: THR A222.

Continuation of THR A222 starting with the production and energizing of vowels and consonants. In addition to the International Phonetic Alphabet, students will develop a systematic approach for the acquisition of a foreign dialect based on tempo/rhythm, facial posture, pitch range, resonance focus, lilt pattern, topography, history, and national character.

THR A328  Acting Shakespeare  3 CR
Contact Hours: 2 + 3
Prerequisites: THR A121.
Special Note: THR A221 and THR A222 are recommended.

Intensive exploration of text-based analysis of Shakespearean characters. Emphasis will be placed on scene and character study in a studio setting.

THR A329  Combat for the Stage I  3 CR
Contact Hours: 2 + 3
Prerequisites: THR A121 and THR A221.

An introduction to the art of fighting in the theatre. Students are taught basic techniques for unarmed, single rapier, and rapier and dagger combat. Emphasis is placed throughout on safety as well as the effectiveness of the illusion of violence.

THR A330  Combat for the Stage II  3 CR
Contact Hours: 2 + 3
Prerequisites: THR A329.

A continuation of the study begun in THR A329, Combat for the Stage. Students review unarmed and rapier and dagger techniques, and are taught broadsword, and/or quarterstaff and small sword combat. Emphasis is placed throughout on safety as well as the effectiveness of the illusion of violence.

THR A337  Lighting Design  3 CR
Contact Hours: 3 + 0
Prerequisites: DNCE A185 or THR A141.
Special Fees.

Theory and practice of the design and execution of lighting and associated electrical effects for the stage.

THR A357  Costume Design and Construction II  3 CR
Contact Hours: 1 + 4
Prerequisites: THR A257.

This course is a continuation of THR A257. Advanced work in costume design and construction.

THR A376  CAD for the Arts  3 CR
Contact Hours: 2 + 2
Prerequisites: ART A357 or THR A141.
Crosslisted with: ART A376.
Special Fees.

Concepts and techniques of 2D and 3D computer-aided drafting. Details language and commands shared by most CAD packages with a focus on technical drawings for layout, design and 3D computer drafting and modeling techniques, with applications to scenic, lighting, and 3D studio arts.

THR A395  Advanced Practicum: Performance  1-3 CR
Contact Hours: 0 + 3-9
Registration Restrictions: Faculty permission and audition.
May be stacked with: THR A195.

Performance practicum for juniors and seniors: advanced participation in mainstage productions as an actor, director, or assistant director.

THR A411  History of the Theatre I  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior or senior standing and the completion of GER Tier 1 Written Communication requirements.
Course Attributes: UAA GER Fine Arts Requirement UAA GER Humanities Requirement

Study of theatre history from ancient Greece to 1800. The history and the influence of different cultures, traditions and technology on the development of the theatre as a social institution.

THR A412  History of the Theatre II  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior or senior standing and the completion of GER Tier 1 Written Communication requirements.
Course Attributes: UAA GER Fine Arts Requirement UAA GER Humanities Requirement

Continuation of THR A411. Theatre history from 1800 to modern.

THR A413  Dramatic Theory and Criticism  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses. Study of theories and criticism of drama and theatrical art from Aristotle to the present.

THR A431  Directing I  3 CR
Contact Hours: 3 + 0
Prerequisites: THR A221 and [DNCE A185 or THR A243] and THR A257.

Study of the history, theories and methods of stage direction. Culminates in the staging of a scene from a dramatic work.

THR A435  Directing II  3 CR
Contact Hours: 3 + 0
Prerequisites: THR A431.
Special Note: May be repeated once for credit.

Advanced study of the history, theories and methods of stage direction. Culminates in the staging of a play.

THR A445  Advanced Theatre Production  3 CR
Contact Hours: 0 + 6
Prerequisites: THR A131.
Registration Restrictions: Theatre major and Junior level.

Advanced technical theatre course with selected emphasis in scenery design, lighting, stagcraft, costume, or directing.

THR A480  Theatre Internship  5-15 CR
Contact Hours: 0 + 15-45
Registration Restrictions: Junior standing and permission of department chair.
Special Note: May be repeated for credit with change of project subject.

Advanced theatre production course with emphasis as selected by students in direction, acting, scenery and lighting, costume design and construction, or theatre management.

THR A490  Selected Topics in Performance  3 CR
Contact Hours: 3 + 0
Prerequisites: THR A121.
Special Note: May be repeated for credit with change of subtitle.

Current topics in theatrical performance addressing special demands of the theatre season or special faculty expertise.

THR A491  Selected Topics in Technical Theatre  3 CR
Contact Hours: 3 + 0
Prerequisites: THR A243 or THR A257.
Special Fees.
Special Note: May be repeated with change of subtitle for a maximum of 12 credits.

Current topics in technical theatre theory and practice. Includes studio work.

THR A492  Senior Seminar  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Completion of GER Tier 1 (basic college-level skills) courses and these Tier 2 Disciplinary Areas: Fine Arts, Humanities and Social Sciences. Junior or Senior level.
Course Attributes: UAA GER Integrative Capstone.
Special Note: May be repeated once for credit with a change in subtitle.

Intensive examination of a topic in Theatre or Dance including the historical, cultural, social and political influences on each aspect of the performance area: writing, acting, movement and design with an emphasis on its relevance to a contemporary audience.

THR A495  Advanced Practicum: Technical  1-3 CR
Contact Hours: 0 + 3-9
Prerequisites: THR A295.
Registration Restrictions: Permission of instructor.
May be stacked with: THR A295.
Special Note: May be repeated with change of project for 9 credits.

Technical practicum for juniors and seniors. Emphasis is on participation in a mainstage production as a significant member of the technical/production crew or design team.

THR A498  Individual Research  3 CR
Contact Hours: 1 + 6
Registration Restrictions: Junior standing in Theatre and department chair’s signature.

Independent research on a specific topic or area of theatre culminating in a research paper. Participation in professional conferences and competition strongly recommended.
COURSE DESCRIPTIONS

THR A499 Senior Thesis 3 CR
Contact Hours: 0 + 9
Prerequisites: THR A498 with minimum grade of B.
Registration Restrictions: Admission to the Theatre Honors program and department chair's signature.

- Independent or collaborative research project on a specific topic or area of theatre culminating in the presentation of a live theatre performance or design execution.
- Continuation and application of the research completed in THR A498 and required for the Theatre Honors Program. Participation in professional competitions strongly encouraged.

VE - VOCATIONAL EDUCATION

Offered through the Community & Technical College
University Center (UTC), Room 130, 786-6423
www.uaa.alaska.edu/ctc

VE A301 Principles of Technology 3 CR
Contact Hours: 3 + 1
Special Fees.
- Application of basic physics to the workplace. Emphasis is on principles of applied physics in areas such as force and force transformers, energy and power, waves and vibrations, radiation and light, and their application in technology and the workplace.

VE A412 Advanced Technical Experiences: Disciplines Area 1-9 CR
Contact Hours: 0-9 + 0-27
Registration Restrictions: Faculty approval required.
Crosslisted with: TECH A412.

- Supports a student's opportunity to participate in outside professional development to increase mastery in a specific technical discipline. This may include participation in classes offered by industry, proprietary schools, or other agencies. Each will be evaluated on an individual basis and must support the student's professional objectives.

VE A430 Instructional Evaluation: PBTE (Topics Vary) .5-3 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational Education.

- Competency-based, individualized format. Modules in this category are designed to aid the vocational teacher in evaluating student performance and the quality of instruction provided. Topics include establishing criteria, assessment of knowledge, skills and attitudes and instructional effectiveness. See module for specific description.

VE A435 Teaching Adults: PBTE (Topics Vary) .5-3 CR
Contact Hours: 0 + 1-6
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational Education.

- Competency-based, individualized format. These modules are designed to aid the vocational teacher and/or administrator in preparing to work with adult learners, marketing adult education programs, determining individual training needs and planning instruction for adults, and managing and evaluating the instructional process and performance of adults. See modules for specific descriptions.

VE A495 Technical Internship 1-3 CR
Contact Hours: 0 + 5-15
Registration Restrictions: Faculty approval required.
Crosslisted with: TECH A495.
Special Fees.
Special Note: Requires at least 75 hours of work internship per credit hour plus additional instructor contact time.

- Supports supervisory and management practices used in business operations through a work experience internship.

VE A644 Improving Instruction in Vocational Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing or faculty permission.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational Education.

- Designed to give practicing teachers advanced instructional techniques. Analysis and evaluation of styles of teaching and learning. Includes conducting group discussions, brainstorming and problem solving techniques, reinforcement, individualizing instruction, competency-based instruction, and self and peer evaluation.

VE A655 Curriculum Development in Vocational Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing or faculty permission.
Special Note: Can be applied toward MS degree in Vocational Education.

- Designed to prepare students to access and/or develop vocational curriculum. Students identify curriculum development terminology and become familiar with competency-based vocational education (CBVE). Develop, adapt and/or adopt curriculum that addresses problem solving, social/economic impacts and accountability in their vocational education arena. Emphasizes those areas unique to vocational education: task analysis, vocational advisory committees, vocational student organizations, CBVE, and vocational curriculum consortiums.

VETT - VETERINARY ASSISTING

Offered through Matanuska-Susitna College
Palmer, Alaska, (907) 745-9774
www.matsu.alaska.edu

VETT A101 Introduction to the Veterinary Profession 1 CR
Contact Hours: 1 + 0

- Introduction to the veterinary profession for individuals considering a career in this field. Introduces responsibilities and expectations as well as legal boundaries of a veterinary health care team.

VETT A103 Veterinary Office Procedures 3 CR
Contact Hours: 3 + 0
Prerequisites: (VETT A101 or concurrent enrollment).

- Provides the student with current information in veterinary practice office management. Students will apply concepts, principles, and skills to situations specific to veterinary office procedures.

VETT A122 Basic Handling and Behavior: Small Animals 2 CR
Contact Hours: 2 + 0
Prerequisites: (VETT A101 or concurrent enrollment).

- Introductory course for students considering a career in small-animal health care. Introduces small-animal nutrition, care, behavior, and restraint, including working safely with large animals.

VETT A124 Introduction to Small Animals 3 CR
Contact Hours: 3 + 0
Prerequisites: (VETT A101 or concurrent enrollment).

- Introductory course for students considering a career in small-animal health care. Topics include an introduction to restraint, clinical pathology, diagnostic imaging, emergency medicine, anesthesia, pharmacology and pain management, surgical and medical nursing, dentistry, and other applicable skills.

VETT A125 Introduction to Large Animals 3 CR
Contact Hours: 3 + 0
Prerequisites: (VETT A101 or concurrent enrollment).

- Introductory course for students considering a career in large-animal health care. Introduces large animal anatomy, physiology, clinical patient management and procedures, laboratory procedures, anesthesia, pharmacology, and surgical and medical nursing specific to large animal species.

VETT A201 Veterinary Anatomy and Physiology 4 CR
Contact Hours: 3 + 2
Prerequisites: (VETT A101 or concurrent enrollment).
Registration Restrictions: Placement into PRPE A108 or higher and (high school chemistry with minimum grade of C and biology with minimum grade of C), or (CHEM A055 with minimum grade of C and BIOL A102 with minimum grade of C and BIOL A103 with minimum grade of C).

- Introductory anatomy and physiology course for students considering a career or furthering their education in the veterinary field. Introduces comparative anatomy and physiologic processes for both small- and large-animal species. Includes lecture and lab components.
VETT A295 Veterinary Assistant Practicum 3 CR
Contact Hours: 0 + 9
Prerequisites: (VETT A101 or concurrent enrollment).
Special Note: Majors only. Must be enrolled in the following major: Veterinary Assisting.
Students gain practical experience in a workplace setting. The faculty, practicum supervisor, and student collaboratively develop an individualized plan for workplace training to reflect the student’s occupational objectives.

VS - VOCATIONAL SKILLS
Offered through Kodiak College
117 Benny Benson Drive, Kodiak, Alaska, (907) 486-4161
www.koc.alaska.edu

VS A125 Woodworking I 3 CR
Contact Hours: 1 + 2
Offered only at Kenai Peninsula College Kachemak Bay branch.
Basic course designed to familiarize the student with the safe use of a variety of modern hand and power tools. Completion of the course may result in the construction of items of personal choice.

VS A126 Woodworking II 3 CR
Contact Hours: 1 + 2
Prerequisites: VS A125.
Offered only at Kenai Peninsula College Kachemak Bay branch.
Special Note: May be repeated once for degree credit.
Continuation of VS A125 with emphasis on more advanced projects and greater individual initiative.

VS A131 Construction for the Owner/Builder I 3 CR
Contact Hours: 3 + 0
Familiarizes students with standard practice construction and alternatives to that practice. Includes the terms/systems involved in construction. Concepts and systems covered are foundations, floors, walls, roof, alternative energy in structures, and alternative structures.

WELD - WELDING TECHNOLOGY
Offered through the Community & Technical College
Gordon Hartlieb Hall (GHH), Room 111, (907) 786-6478
www.uaa.alaska.edu/ctc/construction/weld

WELD A101 Gas and Arc Welding 4 CR
Contact Hours: 2 + 6
Special Fees.
Introduces basic principles of welding. Covers oxyacetylene welding, brazing, silver soldering and oxyacetylene flame cutting in the first half of the course. Covers shielded metal arc welding the second.

WELD A102 Gas Welding 2 CR
Contact Hours: 1 + 3
Offered only at Kenai Peninsula College.
Covers oxyacetylene welding, brazing, silver solder, and cast iron welding.

WELD A103 Arc Welding 4 CR
Contact Hours: 2 + 6
Offered only at Kenai Peninsula College.
Emphasizes welder certification on open root welding of plate. Open to beginner as well as experienced welder. Students certify on 3/8 inch plate, open root or with backing, to ASME or AWS code standards.

WELD A104 Arc Welding: Low-Hydrogen Electrodes 4 CR
Contact Hours: 2 + 6
Registration Restrictions: WELD A101 or WELD A103 or arc welding experience.
Offered only at Kenai Peninsula College.
Emphasis on welder certification with low-hydrogen electrodes. Students certify on .500 inch plate with backing to AWS code standards.

WELD A105 Pipe Welding 4 CR
Contact Hours: 2 + 6
Registration Restrictions: Current certification of plate, open root, vertically upward, or pre-test given during registration.
Offered only at Kenai Peninsula College.
Covers welding of pipe in all positions, open root, uphill and downhill. Pipe sizes of 4-6 inch schedule 40.

WELD A106 Pipe Certification 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A105.
Offered only at Kenai Peninsula College.
Involves welding of pipe in all positions, open root, uphill and downhill. Pipe size: 6 inch schedule 80. Students certify on 6 inch schedule 80 uphill procedure to ANSI B31.3 code standard.

WELD A108 Wire Welding 4 CR
Contact Hours: 2 + 6
Offered only at Kenai Peninsula College.
Basic welding of mild steel, stainless steel and aluminum with wire processes. Students use all wires on the current market in class.

WELD A109 TIG Welding 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A101 and WELD A102.
Offered only at Kenai Peninsula College.
Covers welding of aluminum, zinc alloys, copper, magnesium, mild steel and stainless steel.

WELD A112 Shielded Metal Arc Welding (SMAW) 4 CR
Contact Hours: 2 + 6
Special Fees.
Introduces the welding of mild steels with covered electrodes. Includes welding safety, electrical welding equipment, electrode identification and selection, basic welding joint design, and welding practice on low carbon steel with mild steel electrodes.

WELD A114 Welding of High Strength Steels 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A112.
Special Fees.
Introduces the welding of high strength steels with covered electrodes. Includes welding safety, low hydrogen electrodes selection process, high strength welding joint design, and welding practice on alloyed steels with low hydrogen and alloyed electrodes.

WELD A115 Basic Shielded Metal Arc Welding 2 CR
Contact Hours: 1 + 2
Offered only at Kodiak College.
Beginning course designed to teach basics in welding steel, using the shielded metal arc welding (SMAW) process. TV-tape lessons and demonstrations consist of a series of intensive, highly structured skill building exercises in stick welding. Covers four basic joints in all four positions. Also includes brief exposure to cutting techniques with stick, shear, arc/air and oxyacetylene torch.

WELD A117 Basic Pipefitting 4 CR
Contact Hours: 3 + 2
Special Fees.
Presents theory and basic calculations for the layout and assembly of piping offsets and pipe spool assemblies common to the oil and gas industry.

WELD A118 Welding Fabrication and Manufacturing 4 CR
Contact Hours: 1 + 6
Prerequisites: WELD A101.
Special Fees.
Provides relevant topics and skill enhancement in the area of welding and fabrication for manufactured products.

WELD A121 Pipe Welding Vertical-SMAW 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A112.
Special Fees.
Introduces vertical-down shielded metal arc welding (SMAW) techniques on carbon steel pipe using EXX10 electrodes. Includes information on pipe material specifications, pipe fittings and assembly, welder qualification, and API Standard 1104 code requirements.

WELD A122 Pipe Welding Vertical-Up SMAW 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A121.
Special Fees.
Introduces vertical-up shielded metal arc welding (SMAW) techniques on carbon and alloy steel pipe using both EXX10 and EXX18 electrodes. Includes information on high strength alloy steel pipe specifications and weld/welder evaluation/qualification defined in ASME IX and ANSI/ASME B31.3.

WELD A157 Technical Drawings for Welders 3 CR
Contact Hours: 3 + 0
Provides instruction on interpreting various types of drawings that are commonly used for construction projects that require welded assemblies.
WELD A161  Gas Metal Arc Welding (GMAW) 4 CR  
Contact Hours: 2 + 6  
Special Fees.  
Introduces gas metal arc welding techniques for joining a number of metals. Includes information on power supplies, welding equipment, shielding gases, filler metal selection, and electrical characteristics of the arc.

WELD A162  Flux Cored Welding (FCAW) 4 CR  
Contact Hours: 2 + 6  
Prerequisites: WELD A112 or WELD A161.  
Special Fees.  

WELD A174  Gas Tungsten Arc Welding (GTAW) 4 CR  
Contact Hours: 2 + 6  
Prerequisites: WELD A101 and WELD A112.  
Special Fees.  
Introduces gas tungsten arc welding for joining a number of metals. Includes information on power supplies, torches, inert gases, filler metal selection and electrical characteristics of the arc.

WELD A190  Selected Topics in Welding Technology 1-4 CR  
Contact Hours: 1-4 + 0-12  
Prerequisites: WELD A101.  
Special Fees.  
Presents relevant topics and techniques in the field of welding and fabrication.

WELD A207  Industrial Welding Qualification 2 CR  
Contact Hours: 1 + 3  
Registration Restrictions: Pre-qualification test.  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.  
Inform, upgrade and qualify current welders in the field. New processes and testing methods will be demonstrated and then used by the student.

WELD A261  Ultrasonic Testing 4 CR  
Contact Hours: 2 + 4  
Prerequisites: MATH A105.  
Special Fees.  
Covers the principles of ultrasonic testing methods with zero and shear wave techniques. Examines inspection techniques in accordance with AWS D1.1, API 1104 and ASME codes. Prepares students for the level I, ASNT, SNT-TC-1A recommended practice examination.

WELD A262  General Nondestructive Testing 3 CR  
Contact Hours: 2 + 2  
Special Fees.  
Presents nondestructive testing methods of dye penetrant, magnetic particle, and eddy current. Includes the applications, advantages, and limitations of these NDT methods. Prepares students for the Level I American Society for Nondestructive Testing, SNT-TC-1, a recommended practice examination.

WELD A263  Radiographic Testing Safety 2 CR  
Contact Hours: 2 + 0  
Prerequisites: MATH A105.  
Registration Restrictions: VE A301 Principles of Technology or similar science course work is recommended prior to taking this course.  
Special Fees.  
Presents the safety practices and USNRC regulations for industrial radiography in nondestructive examination. Prepares for both Radioactive Materials (RAM) and the X-ray category Industrial Radiography Radiation Safety Personnel (IRRSP) examination administered by The American Society for Nondestructive Testing (ASINT).

WELD A264  Radiographic Testing 3 CR  
Contact Hours: 2 + 3  
Prerequisites: WELD A263 and WELD A112.  
Special Fees.  
Presents theory and application of industrial radiography and meets ASNT initial training hour requirements for level I and level II radiographer. Includes operation of equipment, film exposure and development, radiographic procedure specifications, interpretation of radiographs, and a brief review of radiation safety.

WELD A281  Welding Inspection and Code Review 4 CR  
Contact Hours: 4 + 0  
Prerequisites: WELD A112 and WELD A157.  
Presents numerous welding inspection methods and a study of various welding codes and standards in preparation for the American Welding Society (AWS) Certified Welding Inspector (CWI) Examination.

WELD A287  Welding Metallurgy Applications 5 CR  
Contact Hours: 3 + 4  
Prerequisites: MATH A055 and WELD A112.  
Special Fees.  
Presents technical information in welding metallurgy. Includes laboratory practice in metallography, heat-treating, and mechanical properties testing.

WS A401  Seminar in Women's Studies 1-3 CR  
Contact Hours: 1-3 + 0  
Prerequisites: WS A200.  
Special Note: WS A401 may be repeated once for credit with a change of subtitle.  
Discusses issues related to women's studies. Content varies every semester.
DIRECTORY

Board of Regents
Principal Administrative Officers
Faculty & Administration
The Regents of the University of Alaska are appointed by the Governor and approved by the Legislature.

Mark R. Hamilton, President, University of Alaska

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Institution and Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALLRED, JOHN D.</td>
<td>Associate Professor, Business Administration</td>
<td>Utah State, B.S. (1991); Weber State University, M.S. (1994); Utah State University, Ph.D. (1997).</td>
</tr>
<tr>
<td>ANGELO, JOE E.</td>
<td>Professor Emeritus, Justice</td>
<td>Michigan State University, B.S. (1965); M.S. (1967); Ph.D. (1975).</td>
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<tr>
<td>ANTEAU, DANIEL J.</td>
<td>Associate Professor, Theatre and Dance</td>
<td>College of Arts and Sciences, University of Anchorage, B.A. (1996); University of Illinois, M.E.A. (1999).</td>
</tr>
<tr>
<td>ANTHONY, RAYMOND X.</td>
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<td>Millikin University, B.A. (1994); Purdue University, M.A. (1998); Purdue University, Ph.D. (2003).</td>
</tr>
<tr>
<td>ARD, SARADELL A.</td>
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<td>Asbury College, B.A. (1942); University of Michigan, M.A. (1943); Columbia University, Ph.D. (1979).</td>
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</tr>
<tr>
<td>BAILLEY, RAYMOND P.</td>
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</tr>
<tr>
<td>BAKER, BOYD A.</td>
<td>Term Assistant Professor, Special Education</td>
<td>College of Education, B.A. (1993).</td>
</tr>
<tr>
<td>BAKER IV, ELSA R.</td>
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</tr>
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<td></td>
</tr>
<tr>
<td>BANCHERO, PAOLA</td>
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</tr>
<tr>
<td>BANES, AISHA A.</td>
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</tbody>
</table>

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Chapter 14 Page 492

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