

C A T A L O G

2004 - 2005



ANCHORAGE
KENAI PENINSULA
KODIAK
MATANUSKA-SUSITNA

UAA UNIVERSITY of ALASKA ANCHORAGE

Fall 2004

Dear Prospective UAA Student,

Welcome to the University of Alaska Anchorage! As a recent graduate said, "At UAA you can get an education as challenging as you could want it to be, as enriching as you hope, with award-winning professors, an Honors program, great housing, lots of activities, and one of the most awesome locations in the world. The resources are there to get a first class education; all you have to do is go after it." This catalogue is a tool to help you do exactly that.

UAA is a flourishing metropolitan university, with course offerings to serve a wide variety of needs and interests. Whether you are a recent high school graduate, a transfer student, or a seasoned professional planning to update your skills, UAA can offer you programs in more than 100 fields of study. We have learning communities within our residence halls, some specially designed for first-time freshmen, one for honors students, the Nightingale for nursing students, and others.

Our dynamic academic environment encourages excellence, supports student success, and involves terrific community partners, who offer students many networking, skill building and potential employment opportunities. The spectacular natural environment encourages an active relationship with the outdoors, whether you're into biking, biochemistry, climbing, dance, flying, glaciology, hiking, photography, or poetry. At the same time this is an urban university with all the amenities of city life. Your choices are abundant.

Visit our website at www.uaa.alaska.edu to learn more about UAA's programs and services, or call (907) 786-1480 for more information.

This catalogue is a window to an energetic, engaged, exciting world.
I hope you enjoy the view.

Sincerely,



Elaine P. Maimon
Chancellor
chancellor@uaa.alaska.edu

CATALOG

2004 - 2005



University of Alaska
Anchorage

3211 Providence Drive
Anchorage, Alaska 99508-8046

www.uaa.alaska.edu

The cover features two-time winner of the Alaska Native Oratory Contest,
Quentin Simeon, as The Storyteller.

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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.

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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, Vietnam era or disabled veteran status, physical or mental disability, changes in 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's Affirmative Action Director, the Office of Civil Rights (Department of Education, Washington, DC), or the Office of Federal Contract Compliance Programs (Department of Labor, Washington, DC).

SOURCES OF INFORMATION

SCHOOLS AND COLLEGES

COLLEGE OF ARTS AND SCIENCES

(907) 786-1707 Web site: <http://cas.uaa.alaska.edu/>
Dr. Theodore Kassier, Dean FAX (907) 786-4630
Social Sciences Building, Room 335

COLLEGE OF BUSINESS AND PUBLIC POLICY

(907) 786-4100 Web site: www.cbpp.uaa.alaska.edu
Thomas Case, Dean FAX (907) 786-4131
Business Education Building, Room 301

COLLEGE OF EDUCATION

(907) 786-4401 Web site: <http://ed.uaa.alaska.edu/>
Dr. Mary Snyder, Dean FAX (907) 786-4445
Professional Studies Building, Room 234

COLLEGE OF HEALTH AND SOCIAL WELFARE

(907) 786-4406 Web site: <http://chsw.uaa.alaska.edu/>
Dr. Cheryl Easley, Dean FAX (907) 786-4440
Professional Studies Building, Room 205

COMMUNITY AND TECHNICAL COLLEGE

(907) 786-6400 Web site: <http://ctc.uaa.alaska.edu/>
Dr. Jan Gehler, Dean FAX (907) 786-6401
University Center, Suite 141

SCHOOL OF ENGINEERING

(907) 786-1900 Web site: www.engr.uaa.alaska.edu/soe
Dr. Robert Lang, Dean FAX (907) 786-1079
Engineering Building, Room 201

COMMUNITY CAMPUSES

CHUGIAK/EAGLE RIVER CAMPUS

(907) 694-3313 Web site: <http://eagle.uaa.alaska.edu/>
Dennis Clark, Director FAX (907) 694-1491
10928 Eagle River Road, Suite 228
Eagle River, Alaska 99577

KENAI PENINSULA COLLEGE

(907) 262-0330 Web site: www.kpc.alaska.edu/
Gary J. Turner, College Director
FAX (907) 262-9280

Soldotna Campus

34820 College Drive, Soldotna, Alaska 99669

Kachemak Bay Campus (907) 235-7743

Web site: www.homer.alaska.edu/

Carol Swartz, Branch Director

FAX (907) 235-6376

533 E. Pioneer Avenue, Homer, Alaska 99603

Resurrection Bay Extension Site

(907) 224-2285

Jackie Marshall, Coordinator Fax (907) 224-3306
1600 Swetman, Seward, Alaska 99664

KODIAK COLLEGE

(907) 486-4161 Web site: www.koc.alaska.edu
Dr. Douglas Hammer, Director FAX (907) 486-1257
117 Benny Benson Drive, Kodiak, Alaska 99615

MATANUSKA-SUSITNA (MAT-SU) COLLEGE

(907) 745-9774 Web site: www.matsu.alaska.edu
Dr. Paul Dauphinais, Director FAX (907) 745-9711
P.O. Box 2889, Palmer, Alaska 99645

MILITARY EDUCATION SERVICES

(907) 356-2295 Web site: www.uaa.alaska.edu/oesm

Ramona McAfee, Director of Statewide Military Education
FAX (907) 356-3762

PO Box 35048

Ft. Wainwright Army Post, Alaska 99703

ANCHORAGE AREA MILITARY EDUCATION SERVICES

Elmendorf Air Force Base (907) 753-0204

Ramona McAfee, Acting Director FAX (907) 753-8390
3 MSS/DPE 4109 Bullard Avenue, Suite 107
Elmendorf AFB, Alaska 99506

Fort Richardson Army Post (907) 428-1228

Ramona McAfee, Acting Director FAX (907) 428-1002
Fort Richardson Center
Kiska Hall, Building 658, Room 131
Fort Richardson Army Post, Alaska 99505

NORTHERN ALASKA MILITARY EDUCATION SERVICES

Clear Education Center (907) 377-1396

Jane Gibson, Director FAX (907) 372-3492
c/o 2623 Wabash Ave. Room 105
Eielson AFB, Alaska 99702

Eielson Education Center (907) 372-3484

Jane Gibson, Director FAX (907) 372-3492
2623 Wabash Ave. Room 105
Eielson AFB, Alaska 99702

Fort Wainwright Education Center (907) 356-3764

Jane Gibson, Director FAX (907) 356-3762
P.O. Box 35048
Fort Wainwright Army Post, Alaska 99703

AFFILIATE COLLEGE

PRINCE WILLIAM SOUND COMMUNITY COLLEGE

(907) 834-1600

Web site: <http://137.229.240.35/gen/home.html>

Dr. JoAnn McDowell, President

FAX (907) 834-1627

P.O. Box 97

Valdez, Alaska 99686

with Centers at Cordova and Copper Basin

UNIVERSITY OF ALASKA ANCHORAGE

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.

ACADEMIC PROGRAMS

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

CAMPUS KEY

AI Programs offered through Anchorage
 KO Programs offered through Kodiak
 KP Programs offered through Kenai
 MA Programs offered through Mat-Su

KEY TO COLLEGES 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
 SOE – School of Engineering

UNDERGRADUATE CERTIFICATES	CATALOG PAGE	SCHOOL/ COLLEGE	ASSOCIATE DEGREES ASSOCIATE OF ARTS (AI, KO, KP, MA)	CATALOG PAGE	SCHOOL/ COLLEGE
Applied Ethics (AI)	149	CAS		104	CAS
Architectural Drafting (AI, MA)	192	CTC			
Automotive Technology (AI)	194	CTC	ASSOCIATE OF APPLIED SCIENCES		
Aviation Maintenance Technology (AI)	201	CTC	Accounting (AI, KO, MA)	156	CBPP
Civil Engineering Drafting (AI, MA)	192	CTC	Air Traffic Control (AI)	199	CTC
Computer and Networking Technology (AI)	236	CTC	Apprenticeship Technologies (AI)	191	CTC
Computer Information and Office Systems (AI, KO, KP, MA)	206	CTC	Architectural Engineering Technology (AI, MA)	193	CTC
Dental Assisting (AI)	207	CTC	Automotive Technology (AI)	195	CTC
Early Childhood Development (AI)	167	COE	Aviation Administration (AI)	200	CTC
Geographic Information Systems (AI)	244	SOE	Aviation Maintenance Technology (AI)	201	CTC
Heavy Duty Transportation & Equipment (AI)	196	CTC	Business Computer Information Systems (AI)	162	CBPP
Industrial Welding Technology (AI)	238	CTC	Computer Electronics (KP)	203	CTC
Logistics (AI)	165	CBPP	Computer Information and Office Systems (AI, KO, KP, MA)	208	CTC
Massage Therapy (AI)	219	CTC	Computer Systems Technology (KO, MA)	210	CTC
Mechanical and Electrical Drafting (AI, MA)	192	CTC	Construction Management (AI)	211	CTC
Mechanical Technology (KP)	219	CTC	Culinary Arts (AI)	212	CTC
Nondestructive Testing Technology (AI)	238	CTC	Dental Assisting (AI)	215	CTC
Paralegal Studies (AI)	178	CHSW	Dental Hygiene (AI)	216	CTC
Petroleum Technology (KP)	225	CTC	Early Childhood Development (AI)	168	COE
Pharmacy Technology (AI) <i>Suspended</i>	226	CTC	Fire Service Administration (AI, MA)	217	CTC
Practical Nursing (AI)	179	CHSW	General Business (KO)	158	CBPP
Refrigeration and Heating Technology (MA)	233	CTC	Geomatics (AI)	244	SOE
Small Business Management (KP)	158	CBPP	Heavy Duty Transportation & Equipment (AI)	197	CTC
Structural Drafting (AI, MA)	192	CTC	Human Services (AI, MA)	176	CHSW
Telecommunications and Electronics Systems (AI, MA)	236	CTC	Industrial Process Instrumentation (KP)	218	CTC
Welding Technology (KP)	238	CTC	Logistics Operations (AI)	218	CTC
			Medical Assisting (AI)	220	CTC
			Medical Laboratory Technology (AI)	222	CTC
			Nursing (AI)	180	CHSW
			Occupational Safety and Health (AI)	224	CTC
			Paramedical Technology (AI)	225	CTC
			Process Technology (AI, KP)	230	CTC
			Professional Piloting (AI)	202	CTC
			Radiologic Technology (AI)	231	CTC
			Refrigeration and Heating Technology (MA)	233	CTC
			Small Business Administration (AI, KP, MA)	159	CBPP
			Technology (KO)	234	CTC
			Telecommunications, Electronics and Computer Technology (AI, MA)	237	CTC
			Welding and Nondestructive Testing Technology (AI)	239	CTC

BACCALAUREATE DEGREES	CATALOG	SCHOOL/		CATALOG	SCHOOL/
BACHELOR OF ARTS	PAGE	COLLEGE	BACHELOR OF SCIENCE	PAGE	COLLEGE
Anthropology (AI)	119	CAS	Anthropology (AI)	120	CAS
Art (AI)	122	CAS	Aviation Technology (AI)	197	CTC
Biological Sciences (AI)	124	CAS	Biological Sciences (AI)	125	CAS
Computer Science (AI)	129	CAS	Chemistry (AI)	127	CAS
Early Childhood (AI)	168	COE	Civil Engineering (AI)	240	SOE
Economics (AI)	164	CBPP	Computer Science (AI)	130	CAS
Elementary Education (AI)	170	COE	Geological Science (AI)	134	CAS
English (AI)	132	CAS	Geomatics (AI)	245	SOE
History (AI)	136	CAS	Health Sciences (AI)	174	CHSW
Hospitality & Restaurant Management (AI)	213	CTC	Interdisciplinary Studies (AI)	115	CAS
Interdisciplinary Studies (AI)	115	CAS	Mathematics (AI)	143	CAS
Journalism & Public Communications (AI)	137	CAS	Medical Technology (AI)	222	CTC
Justice (AI)	178	CHSW	Natural Sciences (AI)	146	CAS
Languages (AI)	139	CAS	Nursing Science (AI)	183	CHSW
Mathematics (AI)	142	CAS	Physical Education (AI)	228	CTC
Music (AI)	144	CAS	Psychology (AI)	152	CAS
Philosophy (AI)	148	CAS	Sociology (AI)	153	CAS
Political Science (AI)	150	CAS	Technology (AI)	234	CTC
Psychology (AI)	152	CAS			
Sociology (AI)	153	CAS	BACHELOR OF SOCIAL WORK		
Theatre (AI)	154	CAS	(AI)	187	CHSW
BACHELOR OF			MINORS		
BUSINESS ADMINISTRATION			Accounting (AI)	157	CBPP
Accounting (AI)	157	CBPP	Addiction Studies (AI)	177	CHSW
Economics (AI)	160	CBPP	Adventure Leadership (AI)	229	CTC
Finance (AI)	159	CBPP	Alaska Native Studies (AI)	119	CAS
Global Logistics Management (AI)	159	CBPP	Anthropology (AI)	121	CAS
Management (AI)	159	CBPP	Applied Statistics (AI)	121	CAS
Management Information Systems (AI)	162	CBPP	Art (AI)	124	CAS
Marketing (AI)	159	CBPP	Athletic Training (AI)	229	CTC
BACHELOR OF FINE ARTS			Aviation Technology (AI)	198	CTC
Art (AI)	118	CAS	Biological Sciences (AI)	126	CAS
BACHELOR OF HUMAN SERVICES			Business Administration (AI)	161	CBPP
(AI)	176	CHSW	Canadian Studies (AI)	126	CAS
BACHELOR OF LIBERAL STUDIES			Chemistry (AI)	128	CAS
(AI)	118	CAS	Coaching (AI)	229	CTC
BACHELOR OF MUSIC			Communication (AI)	129	CAS
Music Education Emphasis (AI)	144	CAS	Computer Information Systems (AI)	163	CBPP
Performance (AI)	118	CAS	Computer Science (AI)	130	CAS
			Creative Writing and Literary Arts (AI)	131	CAS
			Dance (AI)	155	CAS
			Economics (AI)	164	CBPP
			English (AI)	132	CAS
			Environmental Studies (AI)	133	CAS
			Geology (AI)	135	CAS
			Gerontology (AI)	136	CAS
			Health and Fitness Leadership (AI)	230	CTC
			History (AI)	137	CAS
			International North Pacific Studies (AI)	137	CAS
			Journalism and Public Communications (AI)	139	CAS
			Justice (AI)	178	CHSW
			Languages (AI)	140	CAS
			Mathematics (AI)	143	CAS
			Music (AI)	146	CAS
			Philosophy (AI)	149	CAS
			Physical Education (AI)	230	CTC
			Physics (AI)	150	CAS
			Political Science (AI)	151	CAS
			Psychology (AI)	152	CAS
			Public Administration (AI)	151	CBPP
			Social Welfare Studies (AI)	188	CHSW
			Sociology (AI)	153	CAS
			Theatre (AI)	155	CAS
			Women's Studies (AI)	155	CAS

GRADUATE DEGREES	CATALOG	SCHOOL/
MASTER OF ARTS	PAGE	COLLEGE
Anthropology (AI)	262	CAS
English (AI)	267	CAS
Interdisciplinary Studies (AI)	255	CAS
MASTER OF ARTS IN TEACHING		
Education (AI)	274	COE
MASTER OF BUSINESS ADMINISTRATION		
General Management (AI)	269	CBPP
MASTER OF CIVIL ENGINEERING		
(AI)	292	SOE
MASTER OF EDUCATION		
Adult Education (AI)	280	COE
Counselor Education (AI)	279	COE
Educational Leadership (AI)	279	COE
Master Teacher (AI)	278	COE
Special Education (AI)	280	COE
MASTER OF FINE ARTS		
Creative Writing and Literary Arts (AI)	267	CAS
MASTER OF PUBLIC ADMINISTRATION		
(AI)	272	CBPP
MASTER OF PUBLIC HEALTH		
Public Health Practice (AI)	286	CHSW
MASTER OF SCIENCE		
Arctic Engineering (AI)	290	SOE
Biological Sciences (AI)	263	CAS
Civil Engineering (AI)	292	SOE
Clinical Psychology (AI)	265	CAS
Computer Science * (AI)	266	CAS
Engineering Management (AI)	292	SOE
Environmental Quality Engineering (AI)	293	SOE
Environmental Quality Science (AI)	293	SOE
Global Supply Chain Management	270	CBPP
Interdisciplinary Studies (AI)	255	CAS
Nursing Science (AI)	282	CHSW
Project Management (AI)	294	SOE
Science Management (AI)	292	SOE
Vocational Education (AI)	289	CTC
MASTER OF SOCIAL WORK		
(AI)	287	CHSW
GRADUATE CERTIFICATES		
Family Nurse Practitioner	284	CHSW
Psychiatric and Mental Health Nurse Practitioner	285	CHSW
* Joint Collaborate Program		

INSTITUTIONAL ACCREDITATION

UAA is accredited by the Northwest Commission on Colleges and Universities (NWCCU), one of six Regional Institutions of 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
Accredited by the National Automotive Technicians Education Foundation (NATEF)
Associate of Applied Science in General Automotive, Ford ASSET, and General Motors ASEP emphasis Areas
Accredited by the National Automotive Technicians Education Foundation (NATEF)

AVIATION TECHNOLOGY

Certificate and Associate of Applied Science in Aviation Maintenance Technology
Approved by the Federal Aviation Administration
Associate of Applied 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)

BUSINESS

Bachelor of Business Administration
Master of Business Administration
Accredited by the Association to Advance Collegiate Schools of Business (AACSB)

CIVIL ENGINEERING

Bachelor of Science
Accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET)

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 MANAGER

Nontranscripted Certificate of Completion
Approved by the American Dietary Managers' Association

EDUCATION

All education certification endorsement programs are approved by the Alaska State Department of Education and Early Development (based on the standards of the National Association of State Directors of Teacher Education and Certification)

GEOMATICS

Bachelor of Science
Accredited by the Applied Science Accreditation Commission of the Accreditation Board for Engineering and Technology (ASAC/ABET)

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

MESSAGE THERAPY

Certificate in Massage Therapy
Accredited by the Commission on Massage Therapy Accreditation (COMPTA)

MEDICAL ASSISTING

Non-Transcripted Certificate of Completion
Associate of Applied Science
Accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP)

MEDICAL LABORATORY TECHNOLOGY

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 Music, 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

PARALEGAL STUDIES

Certificate
Approved by the American Bar Association

PREPROFESSIONAL PRACTICE PROGRAM (AP4) FOR

DIETITIANS

Approved by the American Dietetics Association Commission on Accreditation

SOCIAL WORK

Bachelor of Social Work
Master of Social Work
Accredited by the Council on Social Work Education (CSWE)

CHAPTER 1

WELCOME TO UAA

UAA History

Mission Summary

Accreditation

UAA Campuses

Anchorage Campus

Chugiak-Eagle River Campus

Kenai Peninsula College

Soldotna Campus

Kachemak Bay Campus

Resurrection Bay Extension Site

Kodiak College

Matanuska-Susitna College

Other Academic Opportunities

Student Exchanges, Studies, and Internships at Other Locations

Domestic Exchanges

In-state Student Exchanges

National Student Exchange Program

International Experiences

Study Abroad and Student Exchanges

Internships Abroad

Student Research, Scholarship, and Creativity

Student Services

Campus Diversity and Compliance

Harassment

Safety

Free Speech and Academic Inquiry



WELCOME TO UAA

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 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 130 programs, ranging from certificate programs to associate, baccalaureate, and master's degrees, are offered at campuses in Anchorage and community campuses and extension centers throughout Southcentral Alaska.

MISSION SUMMARY

The University of Alaska Anchorage inspires learning and enriches Alaska, the nation, and the world through our teaching, research, creativity, and service. UAA is a comprehensive university that provides opportunities to all who can benefit from educational programs of high quality in an inclusive environment rich in diversity. Located in Anchorage and on community campuses serving Southcentral Alaska, UAA is committed and uniquely situated to serve the needs of its communities, the state, and its diverse peoples.

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 services, 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, #228
Eagle River, Alaska 99577
(907) 694-3313
<http://eagle.uaa.alaska.edu>

Located ten miles north of Anchorage, 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

34820 College Drive
Soldotna, Alaska 99669
(907) 262-0300
www.kpc.alaska.edu/

Kenai Peninsula College (KPC) is located about 180 road miles from Anchorage. KPC has campuses in both Soldotna and Homer, and an extension site in Seward. KPC offers two-year Associates of Arts and Associates 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, can be obtained entirely at KPC. A number of four-year degree programs are available at KPC via distance delivery through other UAA campuses. 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.

SOLDOTNA CAMPUS

34820 College Drive
Soldotna, Alaska 99669
(907) 262-0300

The Soldotna campus is conveniently located between the communities of Kenai and Soldotna. The campus includes classrooms, library, laboratories, computer labs, vocational shops, media center, bookstore, art gallery, career center, learning center, food café, and commons areas. With an enrollment of almost 2000 students each semester and highly qualified faculty, KPC prides itself on small class size and personalized attention for all students.

KACHEMAK BAY CAMPUS

533 E. Pioneer Avenue
Homer, Alaska 99603-7624
(907) 235-7743
www.homer.alaska.edu

The Kachemak Bay Campus is located in the picturesque seaside town of Homer. The branch delivers KPC's programs and services on the southern Kenai Peninsula and serves more than 500 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

1600 Swetman Avenue
Seward, Alaska 99664
(907) 224-2285

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 on-site coordinator at Seward High School and more than 10 classes are offered each semester.

KODIAK COLLEGE

117 Benny Benson Drive
Kodiak, Alaska 99615
(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 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, and baccalaureate degrees. In addition, professional development, continuing education, upper-division, and graduate courses are available on a limited basis as demand warrants.

OTHER ACADEMIC OPPORTUNITIES

STUDENT EXCHANGES, STUDIES, AND INTERNSHIPS AT OTHER LOCATIONS

UAA Office of International Services
Enrollment Services, University Center
(907) 786-1558

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

DOMESTIC EXCHANGES

INSTATE STUDENT EXCHANGE

Students enrolled at UAA who wish to complete a portion of their studies at another campus of the University of Alaska System have opportunities for doing so.

Individual courses may be taken at any University of Alaska (UA) institution and transferred into the degree programs at UAA. Students should first check with their advisors to determine if selected courses may be used to fulfill UAA degree requirements. See the policy on Resident Credit in Chapter 7, "Academic Standards and Regulations."

Several certificate and degree programs are offered collaboratively by two or three of the Major Administrative Units of University of Alaska Anchorage, University of Alaska Fairbanks and University of Alaska Southeast. These may include distance delivered classes from each campus, 2+2 programs, or similar arrangements where a planned program is delivered at more than one location.

Students are urged to verify course and program applicability before arranging for exchanges.

NATIONAL STUDENT EXCHANGE

<http://curric.uaa.alaska.edu/National.htm>

UAA is a member of the National Student Exchange (NSE) Program. This is a domestic student exchange with a consortium of over 176 colleges within the United States, Canada, Guam, Virgin Islands, and Puerto Rico. For more information, contact Enrollment Services or visit the NSE website: www.nse.org.

INTERNATIONAL EXPERIENCES

<http://curric.uaa.alaska.edu/International.html>

STUDY ABROAD AND STUDENT EXCHANGES

Contact the Office of International Services

907-786-1573

International experiences allow students to master a foreign language, explore new lands, learn about other cultures, and generally broaden their perspectives while earning resident credit at UAA. Study Abroad and International Exchanges play an important role in the process of instilling citizens with global awareness, and preparing graduates for career opportunities that involve international affairs.

Students are encouraged to plan ahead for Study Abroad or International Exchange experiences during their UAA careers by contacting their departmental advisor and the Office of International Services. The Office provides information on international agreements and programs and provides assistance with placements, visas, registration and enrollments in international locations and travel and accommodations. The student's academic advisor assists in establishing the transferability of credits and their applicability to certificate or degree program requirements. Many forms of financial aid are available to support international experiences. It is the responsibility of the individual student to become familiar with the policies and regulations of UAA and the international institutions that they attend.

Applications for admission to a Study Abroad or International Student Exchange program must be received by March 31 for the following fall semester and September 30 for the spring semester. There are many options available for UAA students to study in Europe, Africa, Asia, South America, Central America, and Australia. Some require foreign language skills, while others do not. Complete descriptions of programs and their requirements, along with applications for participation, are available from the Office of International Services.

INTERNSHIPS ABROAD

An alternative international experience for students is an internship, where students are placed in a working environment outside of the US under local supervision. These internships are facilitated and coordinated by the Office of International Services and often prove to be among the most culturally, intellectually and personally rewarding of college experiences.

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. An annual Student Showcase emulates professional meetings wherein student research and creative expressions are reviewed by faculty and culminate in a university publication.

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," of 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, Vietnam era or disabled veteran status, physical or mental disability, changes in 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:

AHAINA 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 Student Affairs	(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 complaints	

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 Student Affairs, 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) 235-6376
Kodiak Campus Security	(907) 486-1219
Mat-Su Campus Security	(907) 745-9750

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 you 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 <http://studentaffairs.uaa.alaska.edu/safety/index.html>.

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.

CHAPTER 2

CENTERS AND INSTITUTES

Alaska Center for Rural Health (ACRH)

American Russian Center (ARC)

Center for Alcohol and Addiction Studies (CAAS)

Center for Community Engagement and Learning

Center for Economic Education (CEE)

Center for Human Development (CHD)

Environment and Natural Resources Institute (ENRI)

Alaska Natural Heritage Program (AKNHP)

Alaska State Climate Center (ASCC)

Arctic Environmental Information and Data Center (AEIDC)

Resource Solutions

Institute for Circumpolar Health Studies (ICHS)

Institute of Social and Economic Research (ISER)

Justice Center

North Pacific Fisheries Observer Training Center (OTC)

Small Business Development Center (SBDC)

University of Alaska Center for Economic Development (CED)



CENTERS AND 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

www.ichs.uaa.alaska.edu/acrh

ACRH is housed within the Division of Health Sciences 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 Notes newsletter.

AMERICAN RUSSIAN CENTER (ARC)

(907) 786-4300

www.arc.uaa.alaska.edu

ayarc@uaa.alaska.edu

The ARC promotes the development of Russian small business activities in selected regions of the Russian Far East (RFE), facilitates cultural, educational, and other exchange programs with various organizations in the RFE, and manages programs to strengthen relations between UAA and Russian Universities. A key component of ARC's mission is to improve systems for collection, analysis, and dissemination of information about business activity and conditions in the RFE, and the promotion of business linkages between U.S. and Russian companies.

The ARC has centers in Khabarovsk, Sakhalin, Yakutsk, and Magadan and satellite centers in Yakutsk, Petropavlosk-Kamchatsky, Komsomolsk, Blagoveschensk, Kholmsk, and Vladivostok which offer business training programs. These centers have limited capability to support UAA personnel and U.S. business people on-site on a cost reimbursement basis. Support includes assistance in finding contacts, arranging for translators, and providing transportation and communications. The ARC provides a small RFE business library that is available to the public during business hours. The library contains city information on Vladivostok, Khabarovsk, Yuzhno-Sakhalinsk, Yakutsk, Nakhodka, Magadan, and Komsomolsk. The library holdings also include English language business journals and publications related to business in Russia and the RFE. They include *Russian Far East News*, *Russian Far East Update*, *East West Executive Guide*, *Commersant the Business Directory of the NIS*, *Interfax Bulletins* and many other business journals, newspapers, and directories. The ARC develops and conducts specialized business training programs for Russian employees of U.S. and Russian companies in a variety of areas.

CENTER FOR ALCOHOL AND ADDICTION STUDIES (CAAS)

(907) 786-6582

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 educational, 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 COMMUNITY ENGAGEMENT AND LEARNING

(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 services so that students, faculty, and community partners can forge linkages between theory and practice, between knowledge and action, and between the University's academic resources and community development. The Center enables the University to effectively carry out its community service mission, to develop applied research projects, and to support *service learning*, a proven pedagogy that links community service 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 which 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**<http://enri.uaa.alaska.edu>

The ENRI is an applied research institute affiliated with the College of Arts and Sciences that focuses on Alaska's environment and natural resources. The Institute's chief goal is to provide sound scientific data and analyses without advocacy for use in natural resource and environmental decision-making. It also fosters the use of consensus-building techniques to help build agreement on public policy issues related to Alaska's resources. ENRI conducts a diverse range of research on Alaska's environment, natural resources, and peoples and has four formal programs that maintain specialized collections of information that are open to the public. These include the Alaska Natural Heritage Program, the Alaska State Climate Center, the Arctic Environmental Information and Data Center, and Resource Solutions.

ALASKA NATURAL HERITAGE PROGRAM (AKNHP)**(907) 257-2780**<http://enri.uaa.alaska.edu/aknhp>

The AKNHP documents the distribution and abundance of ecologically significant plant and animal species, ecological communities, and natural features to assist in maintaining healthy ecosystems and a sustainable economy for Alaska. The Nature Conservancy established the program in 1989, and it became a component of ENRI in 1993. AKNHP provides biological and related management and land-based information that is useful in land development planning, permitting, environmental and endangered species review, and resource management. AKNHP's primary research areas are botany, ecology, zoology, and natural features.

ALASKA STATE CLIMATE CENTER (ASCC)**(907) 257-2737**<http://enri.uaa.alaska.edu/ascc>auclima@uaa.alaska.edu

The ASCC houses historic data on Alaska's climatology and meteorology, defines long- and short-term climate trends, and applies that information to current issues. The Alaska legislature established ASCC in 1981 to provide timely access to weather-related information and data that was then available only through the federal government and independent researchers. It is one of fifty state climate centers in the nation, and an ENRI scientist serves as the Alaska State climatologist. ASCC conducts research on such topics as superstructure icing, marine ice conditions, snow accumulations, nearshore oceanography, and wind.

ARCTIC ENVIRONMENTAL INFORMATION AND DATA CENTER (AEIDC)**(907) 257-2732**<http://enri.uaa.alaska.edu>

The AEIDC focuses on identifying, gathering, synthesizing and making available existing information for use in scientific studies and environmental decision making. It primarily houses unpublished and difficult-to-find materials on Alaska's environment and natural resources. Typical AEIDC research projects include annotated bibliographies on specific topics or regions of Alaska and compilations of and indices to scientific studies currently underway. It also provides reference and referral assistance, organization of special collections, and archiving and distribution services.

RESOURCE SOLUTIONS**(907) 257-2791**<http://enri.uaa.alaska.edu/rs>ayresl@uaa.alaska.edu

Resource Solutions develops and promotes collaborative decision-making processes. It seeks to connect citizens with government in a constructive manner by developing the mutual capacity and willingness to cooperate, negotiate, and reach decisions that can be implemented. Resource Solutions focuses on natural resource, environmental, and economic concerns important to Alaska; and it provides information, consultation, and services on approaches that help build agreement among competing interests. Resource Solutions maintains a small collection of reference materials on collaborative problem solving, dispute resolution, public involvement, and consensus building. ENRI initiated the program in 1996 with funding from The William & Flora Hewlett Foundation.

INSTITUTE FOR CIRCUMPOLAR HEALTH STUDIES (ICHS)

(907) 786-6575

<http://ichs.uaa.alaska.edu/ichs>

ayichs@uaa.alaska.edu

The ICHS was created by the Alaska State 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 relations 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

The 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. The institute 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 both 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.uaaf.edu/otc

The OTC provides training for marine mammal observers and groundfish, crab, and scallop fishery observers. Working in conjunction with the University of Fairbanks (UAF), the National Marine Fisheries Service and the Alaska Department of Fish and Game under a federal grant, 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, and collect information critical to the management and conservation of Alaska's marine resources.

SMALL BUSINESS DEVELOPMENT CENTER (SBDC)

(907) 274-7232 • Toll Free: 1-800-478-7232

www.aksbdc.org

The SBDC is a cooperative program of the U.S. Small Business Administration and UAA. The objectives of the SBDC programs are to combine federal dollars and resources with those of the state, academic community, and private sector to strengthen small businesses; to contribute to the economic growth of the state; and to create a broader based delivery system to the small business community. The primary emphasis of the SBDC program is on 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 SBDC has six regional centers located in Anchorage, Fairbanks, Juneau, Ketchikan, Wasilla (serving the Matanuska-Susitna Borough area), and Kenai (serving the Kenai Peninsula area), in addition to a rural outreach program.

Other business assistance programs administered include the Procurement Technical Assistance Center which provides assistance with government contracting; the BUY ALASKA program which provides free in-state sourcing for buyers and sales referrals to suppliers; the Technology Research Development Center which provides Small Business Innovation Research (SBIR) proposal assistance and technical database searches to businesses; and the Manufacturing Assistance Program which assists small to medium manufacturers in Alaska to produce parts and supplies under Department of Defense contracts. All of SBDC's business assistance programs encourage the involvement of University faculty and provide internship opportunities for University of Alaska students.

UNIVERSITY OF ALASKA CENTER FOR ECONOMIC DEVELOPMENT (CED)

(907) 786-5444

www.scob.uaa.alaska.edu/centers/ced

The CED's mission is to provide technical assistance to private non-profit and government-related agencies engaged in economic development. The Center focuses on regional problems and opportunities. It utilizes the University's unique research capabilities and expertise to help address the technical assistance and information needs of various economic development entities. The Center coordinates its efforts with the U.S. Commerce Economic Development Administration.



CHAPTER 3

STUDENT LIFE

Student Involvement

Student Affairs

Student Leadership Development

Union of Students (USUAA)

- Club Council

- Concert Board

Greek Council

Media Board

KRUA 88.1FM

The Northern Light

Student Activities

Student Lecture Series and

Conferences

- Student Showcase

- Bartlett Lecture Series

- Pacific Rim Literary Conference

Honor Societies

The Seawolf Speech and Debate Team

Alaska Native Oratory Society

Arts

- Fine and Performing Arts Facilities

- Wendy Williamson Memorial Auditorium and
Lecture Hall

- Campus Art Galleries

Campus Life and Student Union

- Student Activities

Athletics

- Intramural Sports and the Wells Fargo Sports

- Complex

WOLFcard

Food Service

Bookstore

Information and Technology Services

- Telephone

- Customer Support

- Campus Open-Access Computer Labs

- Email Services

- Web Hosting Service

- UAA Online

- Training Services

Campus Housing and Residence Life

- Academic Theme Housing

Health and Wellness

- Student Health Center

- Counseling Services

- Psychological Services Center

- Insurance

- Student Health Insurance

- Accident & Travel Insurance

Alcohol Policies

- Campus Alcohol Policy

- Residence Life Alcohol Policy

- Drug and Alcohol Counseling Resources

Smoke-Free Environment

Outdoor Life

Safety

- Emergencies and First Aid

- University Police

- Safety Escorts

Wildlife on Campus

Pets on Campus

Automobile Insurance

Parking Services

- Parking for Individuals Experiencing

- Disabilities

- Speed Limit

Lost and Found

STUDENT LIFE

STUDENT INVOLVEMENT

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, and the Complex Systems Lecture Series.

STUDENT AFFAIRS

(907) 786-1214

www.uaa.alaska.edu/studentaffairs

The Dean of Students, the staff and faculty in the Division of Student Affairs, 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 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. The Student Leadership Office advises student organizations and coordinates leadership training for student leaders involved with student government, clubs, Greek organizations, and other leadership positions. The Student Leadership Office coordinates graduation related programs, such as co-curricular transcripts, Student Commencement Speaker Committee, and Student Leadership Honors.

UNION OF STUDENTS (USUAA)

(907) 786-1205

<http://usuua.uaa.alaska.edu>

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) 786-1966**<http://clubcouncil.uaa.alaska.edu>

The Club Council recognizes, governs, appropriates funding to, and provides a mechanism of support for over 80 student clubs and organizations.

CONCERT BOARD**(907) 786-1210**<http://concert.uaa.alaska.edu>

Funded by a fee paid by all UAA students on the Anchorage campus taking three or more credits, the Board provides major entertainment events at a substantial discount to students. All are produced by UAA students.

GREEK COUNCIL**(907) 786-1371**<http://greeklife.uaa.alaska.edu>

The governing body for three national sororities and three national fraternities, the Greek Council consists of a seven member executive board: one delegate from each chapter and an advisor. The Council coordinates group activities such as dances, barbecues, and study groups and places a high value on community service work and philanthropy.

MEDIA BOARD**(907) 786-4733**<http://programs.uaa.alaska.edu/media/media.htm>

The Media Board elects student media managers, approves media policies and media budgets, and adjudicates complaints.

KRUA 88.1 FM**(907) 786-6000**<http://krua.uaa.alaska.edu>

Managed by 15 student employees with the help of approximately 50 volunteers, KRUA broadcasts daily from 7:00 a.m. to 1:00 a.m. with an alternative format including reggae, rap, jazz, ska, blues, and punk music, along with news and public affairs shows. Training is provided to volunteers and no broadcast experience is required.

THE NORTHERN LIGHT**(907) 786-1318**<http://light.uaa.alaska.edu/issues/current/frontpage.html>aylight@uaa.alaska.edu

The student newspaper employs up to 30 students each semester. Students gain experience in writing, editing, layout and graphics, photography, advertising, and management. The staff publishes 23 weekly issues during the fall and spring semesters and six issues in the summer.

STUDENT LECTURE SERIES AND CONFERENCES**STUDENT SHOWCASE****(907) 786-4771**<http://programs.uaa.alaska.edu/showcase/index.html>

This annual academic conference recognizes student excellence in all disciplines. Showcase is a forum for students to present papers or other works 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 Student Showcase Journal.

BARTLETT LECTURE SERIES**(907) 786-4733**<http://programs.uaa.alaska.edu/bartlett/bartlett.htm>

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>

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 Student Affairs for information about the national Honor Society of Phi Kappa Phi, which is a university-wide 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) 786-4390<http://aknos.uaa.alaska.edu>

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 and oratory, 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 175-230-seat thrust/arena mainstage, 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.

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**(907) 786-1783 *Kimura Gallery*****(907) 786-1219 *Student Union Gallery***

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 community and Anchorage community to experience a wide range of challenging art. As an educational space, it exposes our students to innovative art work 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.

The Student Union Gallery has a primary mission to provide art exhibit space for 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, theme shows that include students and community members. The gallery is managed by Student Activities and funded by student fees.

CAMPUS LIFE AND THE STUDENT UNION**(907) 786-1204**www.uaa.alaska.edu/campuslife

The Student Union building is the hub of co-curricular activities and programs. Housed in the Student Union is the department of Campus Life, which provides students with social, cultural, academic, leadership, and recreational opportunities. Campus Life programs include New Student Orientation, Student Activities, Concert Program, Student Union management, Bartlett Lecture Series, Student Showcase, The Northern Light student newspaper, and KRUA 88.1 FM student radio station. Also housed in the Student Union are the offices of USUAA, Club Council and Greek Council, Parking Services, Student Leadership, and Student Affairs. Services in the Student Union include group and quiet study lounges, open computer lab, game room, art gallery, Subway Sandwiches, Corner Café, ATM machine, an information desk that provides general information, Carrs Tix entertainment tickets, outdoor rental equipment, lost and found, and snack items for sale.

STUDENT ACTIVITIES**(907) 786-1219****(907) 786-1000 (Events Hotline)**<http://events.uaa.alaska.edu>

A variety of events and programs are offered by Student Activities, from the “Banff Festival of Mountain Films” to Student Union Gallery exhibits, hypnotists to Noon Music, and Family Movie Nights to nationally-touring musicians and comedians. These programs are funded by program receipts and the Student Life Fee.

ATHLETICS**(907) 786-1230**

www.GoSeawolves.com
athletics@uaa.alaska.edu

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 & 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 1988 the men's basketball team was the Division II national runner-up, and in 1991 the hockey team reached the NCAA quarterfinals. UAA sports receive national television exposure thanks to the annual Carrs/Safeway Great Alaska Shootout basketball tournament, held at the 8,700-seat Sullivan Arena. The ESPN cable network, which has broadcasted Shootout games since 1985, has an agreement that runs through 2006. The four-team 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 (cap. 1,250) 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.

INTRAMURAL SPORTS AND THE WELLS FARGO SPORTS COMPLEX **(907) 786-1233**

www.goseawolves.com/recreation/intramurals.html

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.wolfcard.uaa.alaska.edu

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. ARAMARK (food service provider) has eight different campus dining areas:

- Corner Café, a coffee cart located in the Student Union
- UAA Perk, a coffee cart located in the University Center
- Counter Culture, a snack bar in the Social Sciences Building
- Northern Temptations, a snack bar in the Administration/Humanities Building
- Creekside Eatery, a cafeteria located in the housing Commons building
- Cuddy Marketplace, a food court located in Lucy Cuddy Hall
- Daily Grind, a coffee cart located in the dining room of Lucy Cuddy Hall
- Bear Necessities, a convenience store located in the housing Commons building

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

Student Union and University Center locations

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.

INFORMATION AND TECHNOLOGY SERVICES (IT)

(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 voice mail 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 single 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, email 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 email 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.

EMAIL SERVICES

<http://technology.uaa.alaska.edu>

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

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 web pages and content. Student content placed into these web pages 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.

UAA ONLINE

www.uaaonline.alaska.edu

UAA-Online 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 8, "Educational Delivery Methods and Non-Traditional 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/uhdcs/housing.htm

(907) 751-7444 (Residence Life)

www.uaa.alaska.edu/residencelife/index.cfm

The University Housing and Dining Services Department and the Department of Residence Life at UAA 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 awareness, alcohol and drug abuse issues, awareness of global diversity, career planning, and personal safety.

Four different 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 network.

ACADEMIC THEME HOUSING

Alyeska House for Alaska Native and Rural Alaska students studying engineering and sciences is located in the Templewood apartments. This on-campus living environment is a collaborative effort with the UAA Alaska Native Science and Engineering Program (ANSEP). These programs provide a group living environment, a live-in advisor, mentoring, social and academic programs, scholarships, and summer internships.

First-Year Experience Hall is a comprehensive program in North Hall that is designed exclusively for first-year college students under the age of 20 who have completed 20 or fewer college credits. 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.

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

Nightingale Hall 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.

Unity Hall is located on the fourth floor of West Hall. This hall focuses on language interactions and cultural experiences. Classes are held in West Hall for German and Spanish. Tutoring in French is currently available.

HEALTH AND WELLNESS

STUDENT HEALTH CENTER

(907) 786-4049

<http://studenthealth.uaa.alaska.edu>

The center provides educational, preventive, diagnostic, and treatment services for health problems. It is staffed by Advanced Nurse Practitioners who specialize in adult health and/or mental health. The primary health care benefits received by paying the student health fee include routine office care or outpatient services, including family planning and immunizations. Laboratory services, x-rays, limited medications, and health care supplies are available to participating students at a reduced cost.

The Center also provides mental health psychotherapy to students in need. Therapists act as patient advocates and assist individuals in dealing with stressful life events, depression, anxiety, sexual and physical abuse, alcohol and drug dependency, situational crises, and other life issues. A nominal fee is charged for psychotherapy and group sessions.

COUNSELING SERVICES

(907) 786-4500

www.uaa.alaska.edu/studentaffairs/Counseling-and-Support-Services.cfm

Student Affairs' counselors provide assistance with concerns affecting academic success, such as stress, situational crises, alcohol and other drug issues, and life changes. Other counseling services include sexual assault counseling support, referrals to community agencies, including sexual orientation resource referrals, and educational workshops on responding to personal life issues. Counseling services are free 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 faculty. Services are available to the campus community. A fee schedule is based on each individual's ability to pay.

INSURANCE

Students are responsible for their own insurance needs.

Student Health Insurance

(907) 786-4049

<http://studenthealth.uaa.alaska.edu/hci.html>

Health insurance is mandatory for international students on student visas.

A group student health insurance plan is available for purchase to currently enrolled UAA students. For an additional premium, dependents and major medical expenses may be covered. Students can obtain more information through the Student Health Center. Contact Enrollment Services for specific requirements.

Accident and Travel Insurance

(907) 474-5278

www.alaska.edu/swrisk

Supplemental accident insurance for field trips, fieldwork, laboratory, practica, internships, and special UAA events is available for purchase. Depending on departmental policy, either the student or the department assumes the cost of this insurance. This insurance is in excess of other insurance covering the student and is made available to students through the Statewide Risk Management office. It is the student's responsibility to contact departments for further information.

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 Dean of Students 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 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.

DRUG AND ALCOHOL COUNSELING RESOURCES

<http://studentaffairs.uaa.alaska.edu/safety/index.html>

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 at UAA web site or in hard copy from the UAA Office of Student Affairs. 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.

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.

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.

SAFETY

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 9-911.

UNIVERSITY POLICE

(907) 786-1120

<http://www.uaa.alaska.edu/upd/index.cfm>

The University Police Department is on duty 24 hours a day, seven (7) 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.

SAFETY ESCORTS

(907) 784-1147

<http://www.uaa.alaska.edu/parking/callteam/index.cfm>

The UAA Call Team provides safety escorts for students, faculty, and staff to any UAA campus location when desired.

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.

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.

AUTOMOBILE INSURANCE

Under Alaska state 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.

PARKING SERVICES

(907) 786-1119

<http://www.uaa.alaska.edu/parking/index.cfm>

Campus parking provides decals for on-campus parking in lots and has space for more than 3,000 vehicles. 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 FOR INDIVIDUALS EXPERIENCING DISABILITIES

Individuals experiencing disabilities will find designated parking spaces available in each lot on the UAA campus. 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 to legally park in these designated spaces. All other motorists will be ticketed. Illegally parked vehicles may be impounded at owner expense.

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.

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, 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.

CHAPTER 4

TUITION, FEES, AND FINANCIAL AID

Residency for Tuition Purposes

- Resident and Non-Resident Tuition
- Western Undergraduate Exchange (WUE)

Tuition Summary

- Tuition Costs

Fees

Financial Obligations

Payment Procedure

Refund Policy

- Cancelled Classes
- Withdrawal from Classes
- Non-credit, CEU, and Self-Support Classes
- Regular Tuition, Credit Courses

Petition for Exception to University Policy on Refund of Tuition and Fees

Senior Citizen Tuition Waiver

Student Financial Aid

- Financial Aid Application Procedures
- Financial Aid Eligibility
- Federal Verification
- Satisfactory Academic Progress
- Financial Aid Appeal Policy
- Return of Federal Financial Aid Policy

Types of Financial Aid

- Grants
- Loans

Scholarships

Federal Workstudy Program

Student Employment

- Career Services Center (CSC)
- Human Resource Services (HRS)
- Graduate Assistantships

Veterans Assistance



TUITION, FEES, AND FINANCIAL AID

RESIDENCY FOR TUITION PURPOSES

RESIDENT AND NON-RESIDENT TUITION

Students eligible for Alaska resident tuition include:

- Alaska residents as defined below
- Members of the United States military on active duty (stationed in Alaska) and members of the Alaska National Guard, their spouses and dependent children
- Residents of British Columbia, the Yukon, Northwest or Nunavut Territories
- Students from other states or provinces whose public universities waive non-resident charges for Alaska residents and students from foreign cities and provinces that have partnerships with Alaska or specific Alaska communities (lists of approved programs are published online in the University of Alaska Board of Regents' regulations)
- Students participating in the UA Scholars Program
- Students participating in the University of Alaska College Savings Program who meet eligibility criteria as established by the Education Trust of Alaska

For purposes of tuition assessment, a "resident" is any person who, prior to the published first day of instruction at his or her home campus:

- Has been physically present in Alaska for two years (apart from documented absences due to illness, vacations, attending another educational institution while maintaining Alaska residency, or other absences not exceeding a total of 120 days in the two-year period)
- And declares the intention to remain in Alaska indefinitely

A dependent child (one who is unmarried, younger than age 24, and financially dependent on his or her parent or guardian) will be considered a resident if he or she has a parent or guardian that qualifies as an Alaska resident as defined above. Dependent children of alumni who have received an associate, baccalaureate, or graduate degree from the University of Alaska also qualify for resident tuition.

A student will be considered "non-resident" if within two years prior to applying for residency he or she:

- Carried out any act inconsistent with Alaska residency
- Was claimed as a dependent child of a non-resident of Alaska for federal income tax purposes during the most recent tax year
- Paid resident tuition at an educational institution in another state during the past two years

Students having non-immigrant visa status are not eligible for Alaska residency.

A student who has initially registered as a non-resident may apply for resident status after residing in the state for one year under the University's "bona fide resident" provision. Bona fide resident status can be based on either:

- Eligibility to receive the Alaska Permanent Fund Dividend

Or satisfying five (5) of the following conditions:

- Voter registration in Alaska
- Vehicle registration in Alaska for at least nine months
- Motor vehicle operator's license in Alaska for at least nine months
- Evidence of one or more years of physical presence in Alaska within the past three years — you may not have enrolled in more than six credit hours at a college or university during the three-year time frame
- Ownership of real property in Alaska
- Active checking or saving accounts in Alaska
- Other evidence of residence deemed satisfactory by the University's chief enrollment officer or designee

Students who want to apply for resident status should file an application for residency with required documentation at the appropriate university office prior to the published first day of instruction at their home campus.

For additional information and applications, new students should contact the Office of Admissions; returning students should contact the Office of the Registrar.

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 non-resident 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 Services. 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: (907) 465-2855

WICHE Student Exchange Program
P.O. Drawer P
Boulder, CO 80301-9752
Phone: (303) 497-0210

TUITION SUMMARY

TUITION COST:

Preparatory and Lower-Division—Undergraduate (Course Numbers 050 - 299)

Resident	\$ 99.00 per credit hour
*Non-resident	\$330.00 per credit hour

Upper-Division—Undergraduate (Course Numbers 300 - 499)

Resident	\$112.00 per credit hour
*Non-resident	\$343.00 per credit hour

Graduate (Course Numbers 600 - 699)

Resident	\$222.00 per credit hour
*Non-resident	\$453.00 per credit hour

** Non-resident students are assessed non-resident fees on all academic credits including self-support.*

** Non-resident students who restrict their enrollment to no more than four credits each semester are charged resident tuition.*

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 non-resident 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.

Add Fee (per transaction)	\$5	Graduation Application Fee	\$25
Administrative Fee	Varies	Laboratory, Material, Special, and Other Fees	Varies
Admission Fee (non-refundable)		Language Credit by Placement Fee (per course)	\$20
Undergraduate Certificate	\$40	Late Registration Fee	\$50
Associate Degree	\$40	Mandatory Student Fees (for 3-5 credits)	\$23
Baccalaureate Degree	\$40	Mandatory Student Fees (for 6 plus credits)	\$116
Graduate Certificate	\$45	Non-Credit Course Fee	Varies
Graduate Degree	\$45	Parking Fee (optional, non-refundable, per semester/annual)	Range \$35-\$130
ASSET Placement Fee	\$10	Self Support Fee	Varies
Audit Fee	Varies	Student Organization Fees (for 3+ credits)	\$23
Cancelled Registration Fee (CRF Fee)	\$50-\$100	Student Life Fees (for 6+ credits)	\$12 per credit (max \$144 per semester)
Catalog	\$6	Technology Fee	\$5 per credit (max \$60 per semester)
Continuing Education Unit (CEU) Fee	Varies	Tech Prep Course Fee (per credit)	\$15
Credit-by-Exam Fee (per credit)	\$40	Transcript Fee (per copy)	Varies
Distance Fee	Varies		
Drop Fee (per transaction)	\$5		
Continuous Registration Fee	\$202		

ADD/DROP FEE

An add/drop fee of \$5 is charged per transaction, beginning with the first day of instruction. No add/drop fee is charged if students must make changes because the University cancels or reschedules classes after registration.

ADMINISTRATIVE FEE

An administrative fee is a fee charged instead of tuition. There may be other fees assessed for the course such as lab or material fees in addition to the administrative fee.

ASSET PLACEMENT FEE

Testing fee for ASSET Placement Test.

AUDIT FEE

Auditors pay the same tuition and fees as students registering for credit.

CANCELLED REGISTRATION FEE (CRF)

A Cancelled Registration Fee is assessed to students who fail to pay tuition, get approved for a payment plan, or drop all classes by the assigned payment deadline. The CRF for students taking six or fewer credits is \$50; more than six credits is \$100.

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 11, "Graduate Programs," for information).

CREDIT-BY-EXAM FEE

A non-refundable \$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, AND OTHER FEES

A fee is sometimes charged in addition to tuition. The semester Class Schedule identifies courses for which fees are charged and their purpose: lab fee, special fee, or materials fee. Fee amounts vary.

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 REGISTRATION FEE

Fee charged to new registrations during Late Registration (beginning the first day of instruction for the semester).

NON-CREDIT COURSE FEE

Non-credit 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 Schedule as special fees.

PARKING FEE

All areas on campus except "Visitor Parking" require an appropriately displayed parking decal. Decals may be purchased during regular registration or from the UAA Parking Office any time throughout the semester. The UAA Parking Office is located at the Student Union, Suite 113. Decal fees are non-refundable. For further details, contact Parking at (907) 786-1119.

SELF SUPPORT 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 six or more credits and having at least one course (three 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 Center.

Students enrolled in at least one 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 six 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.

STUDENT ORGANIZATION FEES

All students, with the exception of senior citizens, enrolled in three 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 88.1 FM KRUA student radio station. The use of these fees is governed by the Union of Students at UAA (USUAA) Constitution.

Students enrolled in at least one 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.

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

TECHNOLOGY FEE

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

TECH PREP FEE

A non-refundable per credit fee is charged for Tech Prep courses approved through articulation.

TRANSCRIPT FEE

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

SPECIAL COURSE AND LABORATORY FEES

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 Schedule.

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 or add/drop will be denied, or a student's current registration may be cancelled. 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.

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, or by VISA, MasterCard, or Discover card. Students requiring a payment plan may enroll with Tuition Management Services (1-800-722-4867). Refer to the class schedule 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 published in the current Class Schedule. Students are responsible for thoroughly reading the Class Schedule 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. A \$15 fee is charged for all checks reissued due to a stop payment request by the student.

CANCELLED CLASSES

If UAA cancels a class, students may add another class of equal cost at no additional tuition charge and without being assessed an add fee for the replacement class. If a replacement class is not added, a 100% refund of tuition and course fees is automatically processed. Refund processing dates are listed in the current Class Schedule.

WITHDRAWAL FROM CLASSES

No tuition refund or exchange will be allowed for withdrawal after the drop deadline.

NON-CREDIT, CEU, AND SELF-SUPPORT CLASSES

100% of all tuition charged is refunded if the student officially drops at least 2 business days before the first class begins. There is no refund after this time.

REGULAR TUITION, CREDIT COURSES (full semester)

- 100% 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% 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 Schedule for additional information.

PETITION FOR EXCEPTION TO UNIVERSITY POLICY ON REFUND OF TUITION & FEES

A student, or person with legal authority to act on behalf of a student, may petition for an exception to University policy on refunds of tuition and fees. 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 must be submitted to the University of Alaska Anchorage Office of Enrollment Services, University Center, P.O. Box 141629, Anchorage, Alaska 99514-1629.
2. A petition for exception must be received no later than the last day of the semester following the semester or session in which the course was offered. Petitions that are not received within this time frame may not be considered.
 - Fall course - no later than the end of the following Spring semester
 - Spring course - no later than the end of the following Fall semester
 - Summer course - no later than the end of the following Fall semester
3. At the time the petition is filed, the student must already have dropped or withdrawn from the course(s) involved. Refunds will not be considered for courses in which a student is still registered, or for which a grade exists, i.e., *F*, *I*, *DF*, *AU*.
4. Written documentation from instructors, physicians, or other appropriate persons verifying and supporting the request must accompany the petition. It is the responsibility of the student or a person authorized to act on behalf of the student to submit supporting documentation along with the petition. Petitions submitted without documentation may be returned and not considered.
5. A petition will only be approved if the petitioner can demonstrate unanticipated and unavoidable circumstances beyond the student's control that arose after the withdrawal deadlines in UAA's published schedule and that caused the student to drop the course(s).
6. Work related issues, financial hardship, and failure to read UAA's published documents generally do not present justifiable reasons to support a refund request.
7. Petitions for refunds for self-support courses are generally not allowed and must have approval of the academic unit/department chair or director.

8. Mandatory Student Fees are not refundable, unless a student drops all courses during the 100% refund period.
9. If the petition for refund is approved, refunds will be issued to the original funding source, e.g., credit card, financial aid, granting agency, lending agency, etc.
10. Petitions will be reviewed periodically and the number of petitions being reviewed will determine the time for response. A minimum of 6-8 weeks should be allowed for review.
11. Appeals of an adverse decision of the Committee must be in writing, must state the basis for the appeal, and must be received by the Chief Enrollment Officer within ten working days of the day the decision is mailed or otherwise distributed to the student. Appeals will be reviewed by UAA's Chief Enrollment Officer, whose decision is final within the University. Appeals may be faxed, delivered in person or mailed to: Chief Enrollment Officer, Offices of Enrollment Services and Student Financial Aid, University Center, University of Alaska Anchorage, P.O. Box 141629, Anchorage, Alaska 99514-1629, FAX (907) 786-1807.
12. If a petitioner wishes to seek judicial review of the Chief Enrollment Officer's final decision, the appeal must be filed with the superior court of the State of Alaska within 30 days of the date the final decision is mailed or otherwise distributed to the petitioner, in accordance with Alaska Appellate Rule 602(a)(2).

SENIOR CITIZEN TUITION WAIVER

Alaska residents 60 years of age or older may register in most UAA credit courses and have tuition waived. Registration is on a space available basis only. Use of senior citizen tuition waivers is governed accordingly:

1. Tuition is not waived for non-credit, CEU, or self-support courses. 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. Tuition waivers are available at late registration or from Accounting Services or Enrollment Services, both located in the University Center or on the web at www.uaa.alaska.edu/students.
Note: The student government fee and student media fee are waived for senior citizens.
2. Registration using a senior citizen waiver for payment is permitted only during late registration (no late fee will be assessed when students register late with a senior citizen tuition waiver).
3. Senior citizens may elect to register before the late registration 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 full tuition are subject to all payment deadlines. Students who do not either pay or drop before the published deadline will be subject to drop for non-payment and to assessment of the Cancelled Registration Fee. Refunds will NOT be available to senior citizens who drop classes and then re-enroll into the same classes using a tuition waiver during late registration.

STUDENT FINANCIAL AID

www.uaa.alaska.edu/financialaid

The Office of Student Financial Aid 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, debts, 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 Aid for information and applications. Students should submit applications at least 6 months before the beginning of the semester for which they are applying. For the upcoming fall semester, the Office of Student Financial Aid 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 Enrollment Services 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 on line 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 Aid.
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:

- Have a high school diploma or its equivalent
- Be accepted for admission with no conditions
- Demonstrate financial need for federal assistance as determined by the federal Student Aid Report (SAR)
- Meet satisfactory academic progress as defined by Student Financial Aid regulations (policy available on Web at www.uaa.alaska.edu/finaid)

FEDERAL VERIFICATION

The U.S. Department of Education selects 30% of financial aid applications for the verification process. The Office of Student Financial Aid 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 2.0 for undergraduates and 3.0 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 Aid Kiosk 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% 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% of the term will have “earned” only 30% of any Title IV aid received. The school and/or the student must return the remaining 70%. The Office of Student Financial Aid encourages you to read this policy carefully. If you are thinking about withdrawing from all classes PRIOR to completing 60% of the semester, you should contact the Office of Student Financial Aid 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 your 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 \$500 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 Aid 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:

\$2,625 as a first year undergraduate student.

\$3,500 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 upon the inception of the signing of the promissory note. 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 borrowed on the subsidized loan. Graduate students can borrow up to \$10,000 annually in addition to the amount they are eligible for on the subsidized loan. Undergraduate students can borrow up to a maximum loan limit of \$23,000 on un-subsidized loan borrowing. Graduate students can borrow up to a maximum of \$73,000 on the un-subsidized loan program, including the amount borrowed as an undergraduate student.

B. Federal Parents' Loans for Undergraduate Student (PLUS)

Parent(s) 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/finaid

Scholarships are usually awarded for academic achievement or talent. Students interested in applying for scholarships may stop by the Student Financial Aid Office to view scholarship listings and obtain applications or visit the website.

FEDERAL WORKSTUDY PROGRAM

www.uaa.alaska.edu/financialaid/workstudy.cfm

The Financial Aid Office awards Workstudy 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 Financial Aid Department posts the available positions on our web site 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.

CAREER SERVICES CENTER (CSC)

(907) 786-4513

HotLine (907) 786-4545

www.ecampusrecruiter.com/uaa/index.php?script=local-login

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****HotLine (907) 786-4887**www.finsys.uaa.alaska.edu/uaahrs

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. Students may obtain information about employment opportunities by calling the 24 hour JOB HOTLINE or by accessing the HRS website link under "Current Job Openings."

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 (nine 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, Dependents 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 Aid, 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 Enrollment Services 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.

CHAPTER 5

STUDENT RIGHTS AND RESPONSIBILITIES

Student Freedoms, Rights, and Responsibilities

Freedom of Expression

Freedom of Access

Freedom of Association

Freedom From Unreasonable Search/Seizure

Student Participation in Institutional Government

Assess to Student Records University Student Educational
Records (FERPA) Policy

Academic Rights of Students

Academic Integrity

Student Code of Conduct

University Student Judicial Review and Procedure

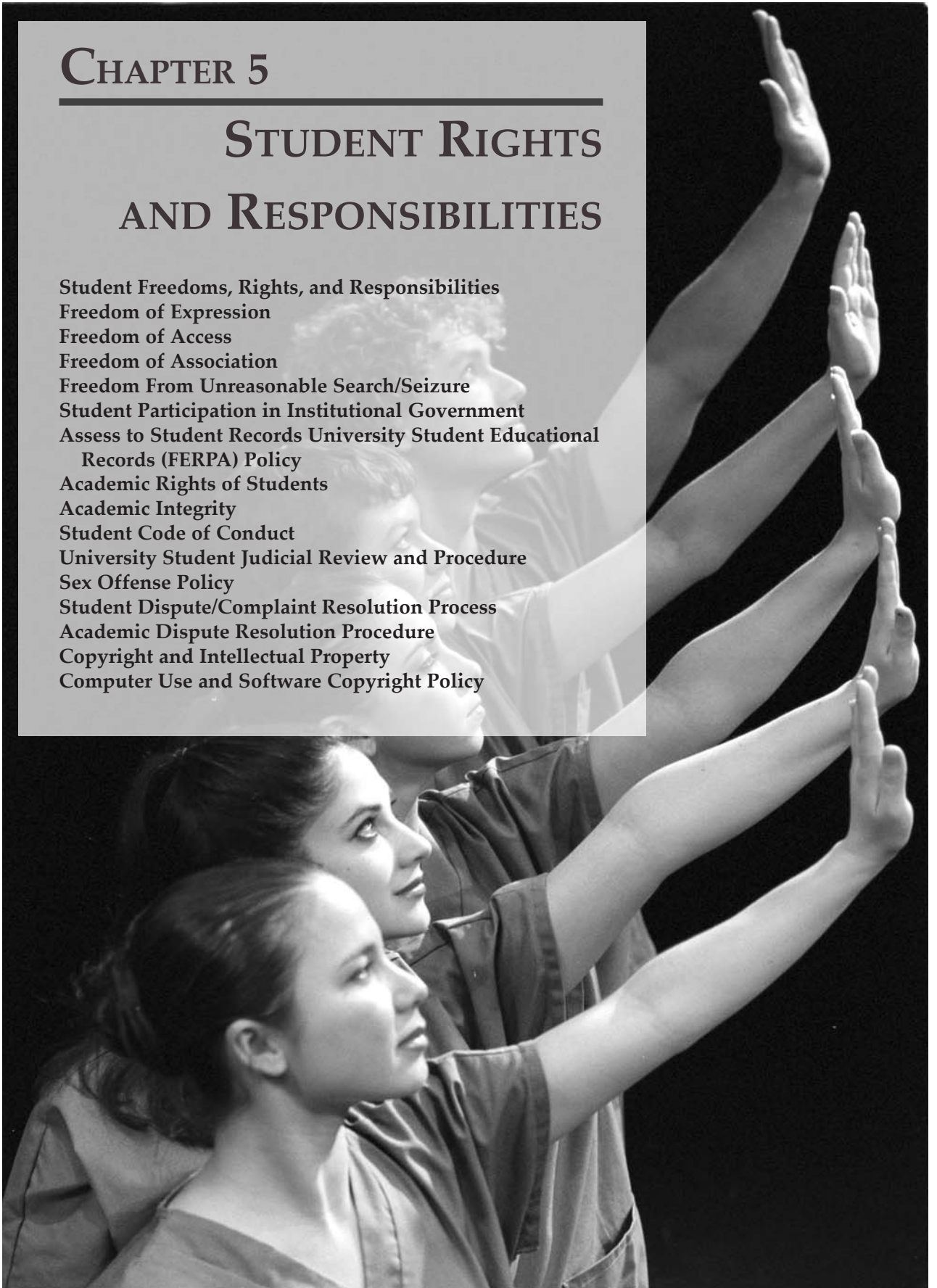
Sex Offense Policy

Student Dispute/Complaint Resolution Process

Academic Dispute Resolution Procedure

Copyright and Intellectual Property

Computer Use and Software Copyright Policy



STUDENT RIGHTS AND RESPONSIBILITIES

STUDENT FREEDOMS, RIGHTS, AND RESPONSIBILITIES

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

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 student conduct regulations are handled through the Office of Student Affairs. Violations of federal, state, and/or local laws make a student subject to civil 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 student handbook, and in the Office of Student Affairs, located in the Student Union, Room 233. Students may also obtain a copy of University of Alaska Board of Regents Policies and University Regulations online at www.alaska.edu/bor.

FREEDOM OF EXPRESSION

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. UAA does not discriminate on the basis of race, color, religion, national origin, sex, age, Vietnam era or disabled veteran status, physical or mental disability, changes in 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 interviewed and/or 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.

ACCESS TO STUDENT RECORDS UNIVERSITY STUDENT EDUCATIONAL RECORDS (FERPA) POLICY

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 Enrollment Services that identifies the record(s) they wish to inspect. Enrollment Services 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 Enrollment Services, Enrollment Services designated staff 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.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. UAA may release, without consent, certain directory information. No one outside the University shall have access to, nor will the University disclose any other information from a student's educational record, without the written consent of the student, except to University officials with legitimate educational interests, to officials of other institutions in which a student seeks to enroll, to persons in compliance with a judicial order, and to persons in an emergency in order to protect the health or safety of the student or other persons, or as otherwise permitted under FERPA.

A University official with legitimate educational interests is a person employed by the University as an administrator, supervisor, instructor, or administrative staff member; a person or company with whom the institution has contracted to perform a special task (such as an auditor or attorney); a member of the Board of Regents; a governmental entity or any other entity with which a student is placed as part of his or her education; or a student serving on an official committee (such as a judicial or academic review committee or scholarship committee), or assisting another University official in performing his or her tasks. A University official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities.

The following information is designated as directory information and may be released to the public by UAA:

- Names of students
- Dates of attendance at UAA
- Program of study
- Degrees and certificates received including dates
- Participation in officially recognized University activities
- Academic and co-curricular awards, honors, and scholarships received
- Campus housing telephone numbers for students living on campus
- Student electronic mail addresses

Students may inform the Enrollment Services 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 20202-4605

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 Services. Links to the University of Alaska Board of Regents' Policy and University Regulation (09.04.00) regarding education records are on the web site:
www.alaska.edu/bor/contents/pt9.html.

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 INTEGRITY

Academic integrity is a basic principle which requires that students only take credit 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. 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*. Disputes regarding academic actions are reviewed under the Academic Dispute Resolution Procedure contained 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. 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 sanction 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 who fails to complete disciplinary sanctions as assigned by the University, may be prohibited from re-enrolling in the University until the charges or disciplinary 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.

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. the action occurred during an event authorized by the University; 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 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; intimidation; or
 - c. 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 or coercion 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:

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 alcoholic beverages 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 or at activities authorized 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 AND PROCEDURE

www.uaa.alaska.edu/studentaffairs/Fact-Finder.cfm

A judicial procedure is a review undertaken by the University to establish whether there is substantial information to determine whether 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*.

SEX OFFENSE 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 Offense 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 which 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 UAA 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*.

COPYRIGHT AND INTELLECTUAL PROPERTY

<http://info.alaska.edu/active/level2/copyright.html>

The University of Alaska provides 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.

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.



CHAPTER 6

ADVISING AND ACADEMIC SUPPORT

Academic Support

Academic Advising

College/School Advising

Advising and Testing Center

Academic Center for Excellence (ACE)

Advising and Testing Center

AHAINA Student Programs

Native Student Services (NSS)

TRIO Programs

Career Services Center (CSC)

College Preparatory and Developmental Studies

Disability Support Services (DSS)

Learning Resource Center (LRC)

Labs and Tutoring

Learning Communities

Learning Resources Center (LRC)

Library Support

Office of Undergraduate Research and Scholarship (OURS)

Testing and Assessment Services

ADVISING AND ACADEMIC SUPPORT

ACADEMIC SUPPORT

ACADEMIC ADVISING

Academic advising assists students in developing academic plans consistent with educational, career and life goals. An academic advisor can guide the student on University policies and procedures, general and degree requirements, and career options associated with the field.

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. The Certificate of Admission issued upon acceptance to UAA provides the referral to the proper source of advising.

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

COLLEGE/SCHOOL ADVISING

College of Arts & Sciences	(907) 786-1357	Advising is also available at the Community Campuses:
College Business and Public Policy	(907) 786-4100	
College of Education	(907) 786-4401	Kachemak Bay (907) 235-7743
College of Health and Social Welfare	(907) 786-4405	Kenai Peninsula College,
School of Nursing	(907) 786-4561	Student Services (907) 262-0330
Community and Technical College	(907) 786-6480	Kodiak College, Administration (907) 486-1219
School of Engineering	(907) 786-1900	Mat-Su College, Student Services (907) 745-9762

ADVISING AND TESTING CENTER

(907) 786-4500

[http://advise.uaa.alaska.edu/
aycouns@uaa.alaska.edu](http://advise.uaa.alaska.edu/aycouns@uaa.alaska.edu)

The Advising and Testing Center has faculty and professional advisors to assist students with issues such as career exploration, education planning, and academic readiness and success. In addition to the undeclared and associate of arts students assigned to the Center for advising, non-degree seeking students may also seek assistance through the Center.

ACADEMIC CENTER FOR EXCELLENCE (ACE)

The ACE provides academic and support services for new and continuing students to enhance attainment of individual, educational, and life goals. ACE consists of the Advising and Testing Center, AHAINA Student Programs, TRIO (Educational Opportunity Center, Educational Talent Search, and Upward Bound), and Native Student Services. Academic advising, educational planning, mentoring, tutorial services, and College Survival Skills courses are a few of the programs provided to enhance the personal, intellectual, and academic growth of the students ACE serves. ACE staff also provide academic interventions for the UAA Scholars program. ACE activities are designed to reflect the goals of the University. ACE provides services to the area's diverse population, school-age children grades 6 –12 as well as the adult re-entry students.

AHAINA STUDENT PROGRAMS**(907) 786-4070**<http://ahaina.uaa.alaska.edu/>

AHAINA is an acronym for African American, Hispanic, Asian, International and Native American students. Its primary goal is to assist these students in achieving academic success and enhancing their university experience through the sharing of cultures. AHAINA provides academic support for students as they pursue their personal and educational goals.

NATIVE STUDENT SERVICES (NSS)**(907) 786-4000**<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.

DELLA KEATS ENRICHMENT PROGRAM (DKEP)**(907) 786-4000**

The DKEP, sponsored by Native Students Services, is an academic summer bridging program that focuses on Alaska Native and American Indian high school students who are planning careers in the health professions. DKEP provides students with an early college experience focusing on academic preparation in English, mathematics, science, human anatomy and physiology, and computer use.

THE INTERNSHIP FOR NATIVE STUDENT TRAINING AND EDUCATION PROGRAM (INSTEP)

INSTEP is sponsored by the Department of Interior, Alaska Native Studies Program and Native Student Services. This program is designed to increase the number of Native Americans entering the Federal service as a career. Program participants are members of a Federally recognized Alaska Native Corporation, Village Corporation or Indian Nation. A full scholarship including room, board, and an educational stipend is provided.

TRIO PROGRAMS

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, basic computer skills instruction, and Federal student loan default rehabilitation.

EDUCATIONAL TALENT SEARCH PROGRAM (ETS)**(907) 274-1513**

The ETS program serves 6th through 12th grade students in thirteen schools in the Anchorage School District. ETS prepares students to successfully complete high school and enroll in college. Services include academic advising, career exploration, study skills tutoring, college planning, college tours, and more.

UPWARD BOUND (UB)**(907) 274-1513**

The Upward Bound program serves 9th through 12th graders 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.

CAREER SERVICES CENTER (CSC)**(907) 786-4513**

www.ecampusrecruiter.com/uaa/index.php?script=local-login

The CSC provides a number of excellent career-related services and resources. The Center houses over 1,000 career-related books in its loan 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 counseling as well as academic internship programs, A Day in the Life Program, a video taped 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 on-campus recruiting.

COLLEGE PREPARATORY AND DEVELOPMENTAL STUDIES**(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 Counseling 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

aydss@uaa.alaska.edu

The DSS coordinates academic support services for students who experience disabilities. To access support services, students must contact DSS and provide current disability documentation which supports the requested services. Services include American Sign Language interpreters, note-taking assistance, textbooks in alternate formats (e.g. tape, large print, electronic text, Braille), testing accommodations, and access to adaptive computer technology.

LABS AND TUTORING

Title <i>Sponsor(s)</i>	Services	Eligible Students (Capitals indicate course prefixes)	Location	Cost	Resources Available
Computer Assisted Writing Lab (CAWL) 786-6856 <i>CPDS & LRC</i>	Tutoring for written assignments	All, PRPE & ESL given priority	SMH 120	None	Computers, style guides, dictionaries
EOC 274-5522	Tutorial assistance	Low-income, first generation college students	500 L Street Suite 501		
LRC 786-6828	CAWL, Math Guided Studies Lab, and Language Lab. Coordinates athletic and individual tutoring. Preparatory ESL tutoring.	All students, depending on type of tutoring	SMH	Free for some services. Private tutoring costs vary	See listing above
Mathematics Guided Studies Lab 786-6856 <i>CPDS & LRC</i>	Tutoring for MATH A054, A055, or A105. Testing for Guided Studies Mathematics students.	All students in MATH courses	SMH 120	None	Computers, mathematics tutorial materials
Mathematical Sciences Math Lab 786-1742	Tutoring for preparatory and lower division math courses and lower division applied statistics courses	All MATH & AS students who have paid lab fee	SSB 156	Lab fee	Computers, videotapes, software
The Reading & Writing Center 786-6918 <i>English Department</i>	Tutoring on written assignments	ENGL students or any student who pays lab fee	SMH	\$12 per semester	Books, dictionaries, style guides, workshops

LEARNING COMMUNITIES

ALASKA NATIVE SCIENCE AND ENGINEERING PROGRAM (ANSEP)

(907) 786-1079

www.engr.uaa.alaska.edu/ansep/default.htm

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 or in Alyeska House and co-enrolling in classes, so that wherever possible they are part of a shared experience.

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/>

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 Baccalaureate 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.

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 Monday through Friday in the same classroom from 8:30 am to 12:30 pm 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 Advising and Counseling (786-4500).

UNIVERSITY HONORS PROGRAM

(907) 786-1086

<http://honors.uaa.alaska.edu/>

The University Honors Program 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 program 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.)

LEARNING RESOURCES CENTER (LRC)

(907) 786-6828

<http://laceweb.uaa.alaska.edu>

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 laser printers, copy machines, laminating equipment, and document binding equipment to assist students.

LIBRARY

THE CONSORTIUM LIBRARY

(907) 786-1848

www.lib.uaa.alaska.edu

The Consortium Library serves the students, faculty, and staff of the University of Alaska Anchorage and Alaska Pacific University with a newly expanded and remodeled facility. It is also the major research library for Southcentral Alaska. The collection includes more than 770,000 volumes, 500,000 microform units, subscriptions to 3,400 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 a collection of archives and manuscripts. The Consortium Library also houses an extensive health sciences collection. The Consortium Library's web site provides access to the Joint Library Catalog that contains the holdings for the Consortium Library as well as the Anchorage Municipal Libraries, 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. The website also provides access to a growing list of databases, indexes, full text articles, and electronic journals. Online request services for interlibrary loan and reference are available.

OFFICE OF UNDERGRADUATE RESEARCH AND SCHOLARSHIP (OURS)

(907) 786-1086

<http://ours.uaa.alaska.edu/>

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 Honors colloquia and presentations. It also sponsors several grant award programs to support undergraduate research and creative/artistic projects: the Undergraduate Research Awards (every fall semester) and Undergraduate Discovery Awards year-round. The number and availability of awards are contingent on funding.

TESTING AND ASSESSMENT SERVICES

(907) 786-4500

www.uaa.alaska.edu/advice/Testing_Assessment/Testing.htm

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. (See Chapter 8, "Educational Delivery Methods and Non-Traditional Credit," for more information.)

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 exams are also available. (See Chapter 8, "Educational Delivery Methods and Non-Traditional Credit," for more information.)



CHAPTER 7

ACADEMIC STANDARDS AND REGULATIONS

Admissions

- General Admission Information
- Transcripts and Test Scores
- Ability to Benefit
- Advising Requirements

University Admission Requirements

- Undergraduate Programs
- Master's Degree Programs and Graduate Certificates
- General Interest and Non-Degree-Seeking Options

Academic Planning

- Program Selection
- Course Selection
- Special Courses
- Registering for Classes and Course Load
- Special Students
- Residency and Resident Credit
- Catalog Year
- Age Limit of Credits
- Transfer Credits
- Class Standing
- Academic Petition

Registration

- Registration by Proxy
- Facsimile (Fax) Transmission
- Biographic/Demographic Information
- Registration Changes
- Faculty Signature
- Auditing Classes
- Continuous Registration
- Cancellation of Classes

Transcripts

Course Performance

- Class Attendance
- Student-Initiated Drop or Withdrawal
- Faculty-Initiated Drop or Withdrawal
- Participation and Preparation
- Course Materials
- Assignments and Testing
- Syllabus and Course Procedures

Course Completion

- Grading
- Grade Changes
- Grade Point Average Computation (UAA GPA)
- Academic Standing
- Academic Eligibility for Student Success
- Honor Lists

Program Completion

- Graduation Application
- Graduation with Honors
- Commencement

ACADEMIC STANDARDS AND REGULATIONS

ADMISSIONS

(907) 786-1480

www.uaa.alaska.edu/admissions/index.cfm

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/index.cfm or from Enrollment Services.

UAA offers four admission options for students:

- **Certificate and associate degree programs** emphasize technical or job-related skills in demand in the workplace and/or can be used as preparation for a bachelor program.
- **Baccalaureate (Bachelor) degree programs** provide a comprehensive general education along with scholarship in a major specialty.
- **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 programs and students and to all non degree-seeking students. See Chapter 11, "Graduate Programs," for admission requirements that apply to graduate programs and students. Individual degree programs may have additional requirements. See Chapter 10, "Undergraduate Programs" for specific program requirements.

TRANSCRIPTS AND TEST SCORES

Degree-seeking students must submit transcripts (and in some cases test scores) documenting their academic history and readiness for the desired level of study. Non-degree-seeking students are not required to submit transcripts or test scores except as required for placement in certain courses.

All required transcripts and test scores must be official documents submitted directly from the issuing high school, college, university, or testing agency directly to Enrollment Services. 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 go through the Ability to Benefit process for admission.

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 Enrollment Services. 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**Testing and Assessment Center****(907) 786-4500**http://advise.uaa.alaska.edu/Testing_Assessment/Testing.htm

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 Testing and Assessment Center.

After taking the exam, 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 Enrollment Services 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 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 two levels of undergraduate admission, one leading to certificates or associate degrees and the other leading to baccalaureate degrees.

ADMISSION TO CERTIFICATE AND ASSOCIATE DEGREE PROGRAMS

To qualify for admission to certificate or associate degree programs a student must either:

1. Have earned a high school diploma, GED, or at least 60 college-level semester credits; or
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 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)

Certificate or associate degree-seeking freshmen 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 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.)

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

Undergraduate 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 Enrollment Services. 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**International Services****(907) 786-1558**

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. In addition to being admitted to an undergraduate program, international students must submit the following:

1. An official TOEFL (Test of English as a Foreign Language) score of at least 450 for the paper-based test or 133 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. 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 Enrollment Services 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. Successful completion of the GED, and completion of either the SAT, ACT, or an approved test; **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 degree programs. They may apply to certificate and associate 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 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 Enrollment Services. 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**International Services****(907) 786-1558**

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. In addition to being admitted to an undergraduate program, international students must submit the following:

1. An official TOEFL (Test of English as a Foreign Language) score of at least 450 for the paper-based test or 133 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. 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 Enrollment Services 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 or the catalog in effect at the time of graduation. Certificate and associate students have five (5) 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 (7) 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.

CHANGE OF ADMISSION LEVEL

To change from a certificate/associate program to a baccalaureate program or vice versa a student must reapply for admission and meet all the requirements for the new admission level.

CHANGE OF MAJOR OR DEGREE

Once formally admitted and in attendance, students may request a change of major or degree program to another program at the same level (i.e. associate to associate, or baccalaureate to baccalaureate) 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 at the same level.

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.

CONCURRENT DEGREES

Students may pursue concurrent degrees as long as they have formally applied and been accepted to each program through Enrollment Services. (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.

TRANSFER EVALUATIONS

Transfer evaluations will be completed for all undergraduate degree-seeking students who have attended other regionally accredited colleges and universities. Once the student has been admitted to a 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 web site at www.uaonline.alaska.edu. For more information see Transfer Credits in this chapter.

APPLICATION AND ADMISSION STATUS FOR UNDERGRADUATE 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 for up to one year by notifying Enrollment Services 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

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 (1) year by notifying Enrollment Services 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 reapply for admission if they later choose to attend UAA.

Returning Students – No Attendance outside the UA System

Undergraduate 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 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 11, "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 noncredit, professional development, and regular credit 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 an approved exam and meet with an academic advisor to determine appropriate entry levels of instruction. Students who wish to register for graduate courses must have 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 degree program. Credits earned as a non-degree-seeking student may be applied to degree programs only as specified in admission to the individual degree-seeking 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**International Services****(907) 786-1558**

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 may only take English as a Second Language (ESL) or recreational/vocational courses. Contact the International Student Advisor in Enrollment Services for further details. Individuals with permanent resident status may be admitted to any program according to the procedures and requirements.

SECONDARY SCHOOL STUDENTS

Secondary school students are those under the age of 18 who are in the 9th, 10th, 11th, or 12th grade and have not yet 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 degree-seeking students only. Students who wish to get an unofficial estimation of how their credits might transfer can visit www.uaonline.alaska.edu.

NON-TRANSCRIPTED DEPARTMENTAL CERTIFICATE PROGRAMS

Several technical areas offer non-transcribed departmental certificate programs that are open to non-degree-seeking students who have met department and/or course prerequisites. Non-degree-seeking students who complete these programs may earn departmental certificates of completion. Certificates of completion do not appear on the UAA transcript, and students in these programs are not eligible for financial aid or the Form I-20 Certificate of Eligibility for Nonimmigrant (F-1) Student Status.

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 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 (1-2 semesters), medium (1-2 years), and long-term educational goals when planning their academic programs. The UAA Academic and Advising 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.

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 130 different programs at the certificate, 2-year, 4-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 course work, specific entrance exam 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.

Students have three opportunities to register for the classes they select: Early registration (during the prior semester), Registration (immediately before the semester begins), and Add-drop (after the semester has begun). The specific dates of each are specified in the [UAA Catalog](#) and [Class Schedule](#). Students consult the online or printed [Class Schedule](#) to select their courses for the coming semester and register either in person, via proxy, or via WolfLink. (See Registration later in this chapter for details).

While general academic advising is available through the UAA Advising and Counseling 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.

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 English and Mathematics course placement purposes, ACT, SAT 1 and UAA approved placement test scores are valid for two years from the date taken. Students may be required to provide proof of their placement scores on the first day of class. Refer to this catalog and the class schedule for specific course prerequisites and placement score requirements.

English and Mathematics placement tests are administered through the UAA Advising and Counseling Center. Contact Advising and Counseling 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 1 Verbal 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 1 Verbal score is eligible to enroll in the following English courses:

<u>English Course</u>	<u>ACT (English) Score</u>	<u>SAT 1 Verbal Score</u>
ENGL A111	22-29	530-619
ENGL A211*	30+	620+
ENGL A212*	30+	620+
ENGL A213*	30+	620+
ENGL A214*	30+	620+

**If a student has earned 30+ on the ACT English test or 620+ on the SAT 1 Verbal 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 three credits from the General Education Requirements (GER) Written Communications Skills list, for a total of six credits.*

MATHEMATICS COURSE PLACEMENT

Mathematics placement testing is available through Advising and Counseling (786-4500). A student who has completed the course prerequisites is eligible to enroll in Mathematics courses. A student who has not completed the course prerequisites but has completed courses with similar content and has earned an appropriate ACT, SAT 1 or UAA approved placement test score is eligible to enroll in the following Mathematics courses:

<u>Mathematics Course</u>	<u>ACT (Math)</u>	<u>SAT 1 Math</u>
MATH A055		400-479
MATH A105	18-21	480-519
MATH A107	22-25	520-589
MATH A200	26+**	590+**

*** Must also take a trigonometry or precalculus course before enrolling in MATH A200.*

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 one (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 (1) contact hour is defined as 50 minutes of contact time.

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

One (1) 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 lecture contact hours per week and the y equals the course's lab contact hours per week. Contact hours are calculated based on a fifteen 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 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.

More specifically, course numbers have the following meaning:

A001-A049: Non-credit courses. Offered as special interest courses for continuing education and leisure time instruction. Not applicable to any degree requirements (even by petition). They have no regular tuition fees but do have other special fees.

A050-A099: Courses applicable to some vocational certificates but not to associate or associate of applied science degrees, baccalaureate degrees, master's degrees, or professional certificates.

A100-A199: Freshman-level, lower division courses. Applicable to certificates, associate, and baccalaureate degrees.

A200-A299: Sophomore-level, lower division courses. Applicable to certificates, associate, and baccalaureate degrees.

A300-A399: Junior-level, upper-division courses. Applicable to certificate, associate, and baccalaureate degrees.

A400-A499: Senior-level, upper-division courses. Applicable to associate and baccalaureate degrees. May also be applied to graduation requirements for some master's degrees with prior approval of the student's Graduate Study Committee. Courses may be applied to only one (1) degree or certificate program.

A500-A599: Professional development courses. Designed to provide continuing education for various professional groups. Courses are neither graduate nor undergraduate in nature. Not applicable to any degree requirements (even by petition). 500-level courses shall not be stacked with any credit courses numbered A050-A499 or A600-A699.

A600-A699: Graduate-level. Applicable to master's degrees and graduate certificate programs with approval of the student's Graduate Study Committee. With prior approval, may also be used to meet graduation requirements for some baccalaureate degrees by petition. Courses may be applied to only one (1) degree or certificate program. 600-level courses demand rigorous analysis, synthesis, and research skills.

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 (1) 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 following second and third digits or 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 practicums and internships
- 97 independent studies
- 98 individual research
- 99 thesis

COURSE LEVEL EXPECTATIONS FOR ACADEMIC COURSE LEVELS

In general, 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:

PREPARATORY COURSES

A050-A099: Provide supplemental preparation for introductory college courses.

LOWER-DIVISION COURSES

A100-A199: Introduce a field of knowledge and/or develop basic skills. These are usually foundation or survey courses.

A200-A299: 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.

UPPER-DIVISION COURSES

Require a background in the discipline recognized through course prerequisites, junior/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: Build upon previous course work and require familiarity with the concepts, methods, and vocabulary of the discipline.

A400-A499: Require the ability to analyze, synthesize, compare and contrast, research, create, innovate, develop, elaborate, transform, and/or apply course materials to solving complex problems. These courses are generally supported by a substantial body of lower level courses.

GRADUATE LEVEL COURSES

A600-A699 – 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. 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 studies. 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.

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. 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.

RETAKING COURSES

Any course for which a student has received a transcribed grade may be retaken at the student's option, 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 exam, 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.

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 one (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 prorated according to the length of the 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 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 term 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 a full and timely manner;
- d. evaluate student's progress in achieving student outcomes;
- e. generate course grade and see that the grades are turned in to Enrollment Services; and
- f. assume responsibility for academic issues that arise in the course.

8. The faculty member 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.

INDEPENDENT STUDY

An Independent Study course is a course consisting 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 one (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 prorated according to the length of the 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 a full and timely manner;
 - d. evaluate student's progress in achieving student outcomes;
 - e. generate course grade and see that the grades are turned in to Enrollment Services; 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.

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 "Stacked with." The semester class schedule 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 semester class schedule will indicate if a class is being offered in cross-listed format.

INTERNSHIP

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 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.)

PRACTICUM

A practicum is a student work experience, for which the academic department establishes the objectives and outcomes. The instructor facilitates, monitors, and 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:

SELF-PACED

These courses offer an alternative to the traditional lecture classes and are especially suited to motivated, self-directed learners. Self-paced courses allow students to work in a low-anxiety, supportive environment. They include the following:

- 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 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 (3) credits and usually in a shorter time frame than a full semester.

REGISTERING FOR CLASSES AND COURSE LOAD

FULL-TIME/PART-TIME STATUS & COURSE LOAD

Students may attend classes in a course offered at UAA only after they have properly completed the registration process for that course.

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.

Audited courses, credit-by-exam courses, Continuing Education Units (CEUs), and Professional Development courses (500 level) are not included in the computation for full-time or part-time status.

Graduate students; see Chapter 11, "Graduate Programs," for information.

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 at registration.

The faculty advisor and appropriate Dean or Director must approve overload requests for certificate or degree-seeking students. An advisor in the Advising & 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 degree and 120 for a baccalaureate degree. To complete an associate 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 students of all ages who meet the University admissions requirements for certificate, degree, or non-degree seeking status set forth in this catalog. The following policy applies to all applicants under the age of 18 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. Applicants must submit an *Application for Admission for Secondary School Students* and pay any applicable fees to UAA for every semester they wish to attend. Applications for admission to UAA are available online, at Enrollment Services, or at the community campuses.

REGISTRATION PROCESS

To complete the registration process, secondary students must:

1. Pick up secondary student registration forms online, at Enrollment Services, 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 area 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 student is processing the request. This needs to be signed by the student and parent/guardian;

6. Submit forms named in numbers 2 through 5 to the UAA Enrollment Services director 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. Register on a space available basis, as priority is given to degree seeking students. Enrollment guidelines for qualified secondary school students are as follows:
 - a. Enrollment may not exceed seven 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;
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;
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.

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,
 - d. is independent and will not require undue care, attention, or monitoring by the faculty member, and
 - e. possesses the physical ability to perform physical functions in the course without undue risk;

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 Enrollment Services, 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 visa types including B-1 or B-2 visitor visas, F-2 visas and those on the visa waiver program may only take English as a Second Language (ESL) or recreational/vocational courses. Individuals seeking the Form I-20 Certificate of Eligibility for Nonimmigrant (F-1) Student Status must be formally admitted to degree-seeking status. Individuals with other visa types are advised to contact the International Student Advisor in Enrollment Services for information. See the Admission section of this catalog for more information.

SENIOR CITIZENS

Alaska residents 60 years of age or older 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 AND RESIDENT CREDIT

RESIDENCY

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

RESIDENT CREDIT

Resident credit is defined as credit earned in formal classroom instruction, directed study, independent study, research, and thesis offered by the University of Alaska Anchorage. Other resident credit includes University of Alaska correspondence study, and all forms of UA distance delivered curriculum. In general, credit earned at UAF or UAS is not considered resident credit. However, if a program is delivered collaboratively with UAF and/or UAS, credit from each participating institution will be counted toward fulfillment of residency requirements. Credit from domestic and international institutions for which there is an approved affiliation or exchange agreement is also considered resident credit. All other courses are defined as non-resident, including out of state correspondence courses, transfer courses, non-traditional courses, and courses completed for credit by examination. (See Chapter 8, "Educational Delivery Methods and Non-Traditional Credit," for further information.)

CATALOG YEAR**CERTIFICATE AND ASSOCIATE DEGREES**

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 degree or the catalog in effect at the time of graduation.

If the requirements for a certificate or associate degree as specified in the entry-level catalog are not met within five (5) 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 (7) 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. When this is not possible, evaluators may grant specifically designated elective credit to meet a General Education Requirement. Only course work that clearly and demonstrably satisfies the intent of a UAA General Education or College Requirement can be accepted as a substitute. 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 degree-seeking student.

CRITERIA FOR ACCEPTANCE OF TRANSFER CREDIT

1. Transfer credit is accepted only from institutions in the United States fully 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.
3. Students who plan to transfer credits from outside the United States must provide an official statement of educational equivalence from a recommended credentials evaluation service. Addresses are available from Enrollment Services. The student is responsible to pay evaluation fees which depend upon the type and complexity of the evaluation.
4. Transfer credits are not included in the student's UAA grade point average (GPA) computation, except to determine eligibility for graduation with honors.
5. Challenge exams and credit by exams posted on another university's transcript will not be considered for transfer credit (see National Credit by Examination).
6. UAF and/or UAS residence credit posted on an official transcript will be transferred to UAA subject to applicability toward degree requirements.
7. Credits from unaccredited institutions are only accepted under special institutional arrangements.

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

The general education requirements 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:

Category Credit Hours

Written Communication Skills	6 credits minimum
Oral Communication Skills	3 credits minimum
Humanities/Social Sciences/Fine Arts	15 credits minimum At least 3 credits in the arts At least 3 credits in the general humanities At least 6 credits in the social sciences from 2 different disciplines
Quantitative Skills/Natural Sciences	10 credits minimum At least 3 credits in mathematics At least 4 credits in the natural sciences including a Laboratory
Total	34 credits minimum

Credit for course work successfully completed at one University of Alaska institution towards fulfillment of the general education requirements at that institution shall transfer towards fulfillment of the same categories at all other University of Alaska institutions. This applies even if there is no directly matching course work 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:

	<u>Credits</u>
Freshman/First Year	0 - 29
Sophomore/Second Year	30 - 59
Junior	60 - 89
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 Enrollment Services.

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 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 can not be petitioned. UAA courses not on the approved baccalaureate General Education Requirements (GER) list can not 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 Schedule. Not every course listed in this catalog is offered each semester.

Students may register in person or use UAA's Wolf Link web registration system during the dates published in that semester's Class Schedule. 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 late registration and add/drop period begins on the first day of the semester. Registration for semester-length courses is not permitted after the tenth class day of the semester. Even if students have been attending class from the beginning of the course, their registration will not be accepted after the late registration deadline. Students are not officially registered until all tuition and fees are paid.

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% refund period to avoid tuition and fee assessment. Refer to the Academic Calendar published each semester in the Class Schedule for specific deadlines.

Students may adjust their schedules and add or drop courses throughout the late registration and 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 Financial Aid Office 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.

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 in the Class Schedule or from Enrollment Services. The proxy must follow the policies and calendar governing registration. Proxy registrations are not accepted without written permission from the student.

FACSIMILE (FAX) TRANSMISSION

Because the original source of a document received through a FAX transmission cannot always be accurately determined, official documents received by facsimile transmissions shall be considered only as working documents, pending the receipt of official, authenticated documents or other valid documentation. Enrollment Services will accept faxed signed requests for processing.

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 admissions forms. The University uses the information for statistical purposes and as an identifier for University records. This information is relevant to the University's admissions 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 Enrollment Services and must be supported by legal documentation, i.e., social security card, driver's license, marriage certificate, dissolution or divorce decree, or a court order.

CHANGE OF ADDRESS

Currently enrolled students who have changed their address should notify Enrollment Services by completing the appropriate form. Official notification of change of address is necessary for accurate mailing of correspondence, transcripts, registration instructions, registration billing, and information about graduation requirements.

SOCIAL SECURITY NUMBER

The University of Alaska has begun the process of establishing student identification numbers and moving away from the practice of using social security numbers as default ID numbers. The tentative date for conversion of social security numbers to random generated student IDs is June, 2004. The University is still required to collect a valid social security number from each student for tax, employment, and Federal financial aid purposes.

REGISTRATION CHANGES

It is the responsibility of the student to become familiar with UAA policies, procedures and deadlines. Refer to the Academic Calendar published each semester in the Class Schedule for specific deadlines. Add, drop, withdrawal, credit/no credit, and audit deadlines for courses other than 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 for more information.)

FACULTY SIGNATURE

Some course descriptions include "Instructor Permission" as a prerequisite. Students must obtain the signature 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 classes are required to meet prerequisites, register, and pay tuition and related fees. During weeks one (1) and two (2) of the semester, audit-to-credit requires faculty signature. Audit-to-credit changes are not allowed after week two (2) of the semester. During weeks three (3) 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. Forms are available in Enrollment Services.

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-exam for an audited course until the following academic year.

CONTINUOUS REGISTRATION

Continuous registration is expected of graduate students. (See Chapter 11, "Graduate Programs," for further information.)

The following registration activity deadlines pertain to semester-length courses (15 weeks). Deadlines for courses more or less than semester-length 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 (Semester Length Courses):

<i>Desired Change</i>	<i>Week 1 of Semester</i>	<i>Week 2 of Semester</i>	<i>After Week 2 of Semester</i>
ADD OR LATE REGISTRATION	Faculty signature required if course closed. Fee charged.	Faculty signature required. Fee charged.	Not permitted.
<i>Desired Change</i>	<i>Begin 7th calendar day of Semester through Week 2 of Semester DROP</i>	<i>Weeks 3 through 12 of Semester WITHDRAWAL</i>	<i>After Week 12 of Semester</i>
FACULTY INITIATED DROP OR WITHDRAWAL (OPTIONAL)	Form filed by faculty member with Enrollment Services. Course will not appear on student transcript.	Please see Class Schedule for specific dates. Form filed by faculty member with Enrollment Services. Course will appear on student transcript with a grade of "W."	Not permitted.
<i>Desired Change</i>	<i>Weeks 1 through 2 of Semester DROP</i>	<i>Weeks 3 through 12 of Semester WITHDRAWAL</i>	<i>After Week 12 of Semester</i>
DROP OR WITHDRAWAL	No faculty signature required. Fee charged. Course will not appear on student's transcript. <i>Students are not permitted to drop or withdraw from a course after it has ended.</i>	Please see Class Schedule for specific dates. No faculty signature required. Fee charged. Form filed with Enrollment Services. Course will appear on student's transcript with a grade of "W."	Not permitted.
<i>Desired Change</i>	<i>Weeks 1 through 2 of Semester DROP</i>	<i>Beginning Week 3 of Semester WITHDRAWAL</i>	<i>Beginning of Final Exam Week</i>
TOTAL WITHDRAWAL FROM UNIVERSITY	No faculty signature required. Fee charged. Form filed with Enrollment Services. Courses will not appear on student's transcript. <i>Students are not permitted to drop or withdraw from a course after it has ended.</i>	Please see Class Schedule for specific dates. No faculty signature required. Fee charged. Form filed with Enrollment Services. Courses will appear on student's transcript with a grade of "W."	Not permitted.

CHANGE IN GRADING OPTION

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

<i>Desired Change</i>	<i>Weeks 1 through 2 of Semester</i>	<i>Weeks 3 through 12 of Semester</i>	<i>After Week 12 of Semester</i>
CREDIT/ NO CREDIT	Fee charged. Form filed with Enrollment Services.	Not permitted.	Not permitted.
CREDIT TO AUDIT	Fee charged.	Faculty signature required. Fee charged. Form filed with Enrollment Services.	Not permitted.
AUDIT TO CREDIT	Faculty signature required. Fee charged. Form filed with Enrollment Services.	Not permitted.	Not permitted.

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.

TRANSCRIPTS

Transfer credit equivalents vary among semester, unit and quarter universities. Courses equated to UAA courses that are 1.00 credit or less meet UAA course requirements without requiring a petition. To complete credit requirements greater than 1.00 credits, 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 the student to ensure that they complete the total number of credits 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 receiving a failing grade. Unreasonable refusal to accommodate an emergency absence or an official university absence as described below may be appealable 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 published 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 shorter semesters. There is a fee for this option, and no grade will be issued for classes dropped by the 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 shorter semesters. 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 or fees are 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 (7) 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. 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 arrangements 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 exam for illness or family issues. Students should clarify how to address alternate testing with the individual faculty prior to the first exam.

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.

<i>A</i>	Honor grade; indicates comprehensive mastery of required work.
<i>B</i>	Indicates high level of performance in meeting course requirements.
<i>C</i>	Indicates satisfactory level of performance.
<i>D</i>	Indicates lowest passing grade; may not be acceptable to satisfy requirements in certain majors and in graduate programs.
<i>F</i>	Indicates failure.

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.

<i>CR</i>	Indicates credit received for course.
<i>NC</i>	Indicates no credit received for course.
<i>DF</i>	Deferred; temporary grade which 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>I</i>	Incomplete; indicates additional work must be completed to receive a final grade. If the course work is not completed within one (1) year and the faculty member does not submit a change of grade at that time, the <i>I</i> will become a permanent grade.
<i>P</i>	Indicates passing work.
<i>NP</i>	Indicates work that is not passing.

OTHER DESIGNATIONS

These designations do not carry grade points and are not used to calculate GPAs.

<i>AU</i>	Audit; indicates enrollment for information only; no credit received.
<i>W</i>	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 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/NP*). 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. If performance falls below that level (*D*, *F*, *NP*) the student will be automatically withdrawn from the course.

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 Enrollment Services. 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 course work is not completed prior to fulfilling graduation requirements or if the student fails to maintain enrollment for one (1) 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. Course work must be completed by a date specified in the contract, not to exceed one (1) year. Upon completion of the required course work, the faculty member must submit a change of grade form to Enrollment Services. If course work is not completed within one (1) 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 course work is not completed within one (1) year and the faculty member does not submit a change of grade 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 15th 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 Enrollment Services by the appropriate faculty member. Change of Grade forms will not be accepted if submitted to Enrollment Services by the student.

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 (1) 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 (3) 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 (4) quality hours. The total grade points for the first course would be 12 points and for the second would be two (2) points. The GPA would be calculated by dividing the sum of 12 and 2 by 4, the number of quality hours, to determine a grade point average of 3.50.

Non-academic grades do not carry grade points and are not used in calculating the GPA: *CR, NC, DE, 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, 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.

LOSS OF CERTIFICATE OR UNDERGRADUATE DEGREE-SEEKING STATUS

Removed from Degree Program is the status assigned to those students who begin a semester on probation or continuing 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).

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 accredited post-secondary institution in 100-level or higher courses with a cumulative 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 Enrollment Services.

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 from Enrollment Services.

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 are released to the media; also, names and addresses of honor students are provided to the National Dean's List Publication unless a written request not to do so has been received by Enrollment Services.

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 until course work has been completed and the *I* or *DF* is replaced by a final grade.

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 until course work has been completed and the *I* or *DF* is replaced by a final grade.

PROGRAM COMPLETION**GRADUATION APPLICATION**

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 Enrollment Services. Application for Graduation deadlines are March 1 for summer graduation, May 1 for fall graduation and September 15 for spring. Upon receipt of the student's Application for Graduation, a review is completed by Enrollment Services. 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.

Names of students receiving degrees/certificates appear in the Commencement Program in the spring and are released to the media unless a written request not to do so has been received by Enrollment Services. Students who do not want their names to be released may so indicate on the Application for Graduation form. Students who apply for graduation and who do not complete degree/certificate requirements by the end of the semester must reapply for graduation and pay the appropriate fee.

GRADUATION WITH HONORS

To be eligible to graduate with honors, an undergraduate student 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 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 your 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 and baccalaureate degree students with cumulative GPAs as follows:

Cum Laude 3.50 to 3.79

Magna Cum Laude 3.80 to 3.99

Summa Cum Laude 4.00

COMMENCEMENT

Students who complete certificate or degree requirements and meet the application for graduation deadline during an academic year (fall and spring semesters) are invited to participate in the annual commencement ceremonies in May. Students who complete certificate or degree requirements and meet the application for graduation deadline during the summer session are invited to participate in the commencement ceremonies the following May.



CHAPTER 8

EDUCATIONAL DELIVERY METHODS AND NON-TRADITIONAL CREDIT

Academic Technology Services (ATS)

Distance Education Services
Proctoring Services

Center for Distance Education and Independent Learning Statewide Office of Education Services for the Military

Southcentral Region Military Education Services
Elmendorf AFB
Fort Richardson
Northern Region Military Education Services
Eielson AFB
Fort Wainwright

Non-Traditional Credit

Language Credit by Placement
Certified Experience Credit
Local Credit by Examination
Military Credit
National Credit by Examination
Advanced Placement Program
College-Level Examination Program (CLEP)
Dantes/USAFI Examination
Excelsior College Exam
International Baccalaureate
National Occupational Competency Testing Institute
(NOCTI) Examination

EDUCATIONAL DELIVERY METHODS AND NON-TRADITIONAL CREDIT

ACADEMIC TECHNOLOGY SERVICES (ATS)

Phone (907) 786-4646, or toll-free 1-877-633-3888

<http://uaaonline.alaska.edu>

ayats@uaa.alaska.edu.

The ATS Department supports both UAAOnline and technology-enhanced learning at UAA. UAAOnline is an electronic gateway to services and resources for instructors and students. It seeks to stimulate interest in and facilitate the use of technology in the pursuit of teaching and learning at UAA.

Beyond this broad mission, UAAOnline seeks to provide specific support to instructors and students involved in UAA's distance education courses. UAA has particular interest in expanding the use of distance-delivered courses to better meet the needs of today's students and the changing world of higher education. Distance education courses are offered throughout the year during fall, spring, and summer sessions.

DISTANCE EDUCATION SERVICES

<http://uaaonline.alaska.edu/>

Many UAA departments, schools, and colleges offer technology enhanced courses. While technology in the classroom can be used to accomplish several things, one of the primary reasons technology is employed in education is to provide distance education. Many distance courses are run in an "asynchronous" mode. This means that the student may engage in the coursework at any time during the assigned time period. As a result, distance courses often provide increased flexibility and access for students who live in geographically remote areas, or for students who have schedules that preclude regular on-campus attendance.

Key points about distance courses:

Distance courses can be applied 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 not self-paced.

Students must have increased motivation and self-discipline in order to successfully complete distance courses. UAA distance education courses use common technologies, but not all technologies are used for all courses. Each course uses its own combination of the technologies available, so it is important to check the requirements of a distance course before enrolling. For example, some courses require a computer with Internet access, while others require a television with a VHS player. These requirements are listed in the course schedule.

Many different technologies are used to deliver distance education. Most courses use a combination of the following:

Audio Conferencing
CD-ROM Instruction
Correspondence
Instructional TV

Streaming Media
Video/Audio Tapes
Web-Based Instruction

Proctoring Services

Student quizzes, tests, and exams are administered at remote testing sites such as public schools, libraries, or community centers. Students are required to contact an assigned location with an approved proctor before taking an exam.

CENTER FOR DISTANCE EDUCATION AND INDEPENDENT LEARNING**P. O. Box 756700****Fairbanks, Alaska 99775-6700****Phone: (907) 474-5353****Fax: (907) 474-5402****www.distance.uaf.edu/****Distance@uaf.edu**

The Center for Distance Education and Independent Learning is part of the College of Rural Alaska. The Independent Learning Program (IL) is the oldest distance delivery program at the University of Alaska and has offered correspondence courses for more than forty years. There are more than 100 courses available, though the variety of courses is not designed to meet the requirements of any specific degree program. Some required courses for various degree programs, however, are included in the IL offerings. The University of Alaska correspondence study is considered resident credit at UAA. The UAA Advising and Counseling Center has brochures for this program and can proctor exams.

STATEWIDE OFFICE OF EDUCATION SERVICES FOR THE MILITARY**PO Box 34048****Ft. Wainwright Army Post, Alaska 99703****(907) 356-2295****<http://oesm.uaa.alaska.edu>**

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 include:

- Fort Richardson Army Post and Elmendorf Air Force Base in Anchorage
- Eielson Air Force Base, Clear Air Force Station, and Fort Wainwright Army Post outside of Fairbanks

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.

SOUTHCENTRAL REGION MILITARY EDUCATION SERVICES**ELMENDORF AFB****3 MSS/DPE 4109 Bullard Avenue, Suite 107****Elmendorf AFB, Alaska 99506****(907) 753-0204**

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.

FORT RICHARDSON**Kiska Hall, Bldg 658, Room 131****Ft. Richardson Army Post, Alaska 99505****(907) 428-1228**

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.

NORTHERN REGION MILITARY EDUCATION SERVICES**EIELSON AFB****3124 Wabash, Room 105****Eilson AFB, Alaska 99702****(907) 372-3484**

The education center on Eielson Air Force Base, located some 30 miles east of Fairbanks, provides course work towards an Associate of Arts, a Bachelor of Science in Technology, and a Bachelor of Arts in Interdisciplinary Studies. In addition, the University of Alaska Southeast offers an Associate of Applied Science in Business Management, Bachelor of Business Administration, and a Master of Public Administration.

FORT WAINWRIGHT**PO Box 35048****Ft. Wainwright Army Post, Alaska 99703****(907) 356-3762**

The education center provides course work towards an Associate of Arts, a Bachelor of Science in Technology, and a Bachelor of Arts in Interdisciplinary Studies. In addition, the University of Alaska Southeast offers an Associate of Applied Science in Business Management, Bachelor of Business Administration, and a Master of Public Administration. Day, evening and weekend classes are taught during regular 15-week semesters, as well as 8-week sessions and unit classes.

NON-TRADITIONAL CREDIT

Non-traditional 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 Enrollment Services 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 Emergency Medical Services
- Alaska State Troopers
- Anchorage Police Department
- Apprenticeship Technologies
- Certified Professional Legal Secretary (CPLS) Examination
- Certified Professional Secretary (CPS) Examination
- Child Development Certificate
- Federal Aviation Administration
- Federal Wildland Fire Management Training Program
- National Council Licensure Exam (NCLEX)
- National Occupational Competency Testing Institute (NOCTI) Examination
- U.S. Department of Labor Bureau of Apprenticeship and Training
- U.S. Paramedic Licensure

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 Counseling Center. There is a fee charged for local credit by exam.

General criteria for local credit by examination include:

1. Courses with numbers below 100 may not be taken through credit by exam.
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 exam.
3. When an appropriate exam 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 exam and construction of the examinations is at the discretion of the appropriate department.
5. Local credit by exam 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 exam. If the exam 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 non-resident 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 (1) year from the date of application to take the local examination.
10. Students may not request local credit-by-exam for an audited course until the following academic year.

MILITARY CREDIT

Up to eight (8) elective credits may be awarded to students who have completed one (1) 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 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, SCCOAST, and SOCNAV) 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 three (3) semester credits to be completed in residence at UAA for the associate program and six (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 three (3) semester credits for the two-year programs and 24 semester credits for the four-year program and an overall GPA of 2.0.

Please contact Enrollment Services at 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 exams are based on the most current American Council on Education recommendations or departmental approved scores.

A student desiring credit for a national exam must request that an official report of exam scores be sent to Enrollment Services at UAA. Credit may be received for more than one national exam.

ADVANCED PLACEMENT PROGRAM

UAA awards credit for satisfactory performance (a score of 3 or higher) on the College Board Advanced Placement Examinations. These exams are normally completed by students during their senior year in high school. A student may receive credit for more than one Advanced Placement Exam.

Advanced Placement ExamUAA Equivalent**Art**

Studio Art4 credits lower-division art elective
History of ArtART A261/A262

Biology

BiologyBIOL A102/A103+ 4 credits
lower-division biology elective

Chemistry

ChemistryCHEM A105/A105L
Computer ScienceCS A201/3 credits
lower division CS elective
Environmental ScienceENVI A202 + 1 credit
GER-Natural Science Lab

Economics

MacroeconomicsECON A201
MicroeconomicsECON A202

English

Language and Composition.....ENGL A111
Literature and Composition.....ENGL A121

Languages

Level 3: French Language.....FREN A101/A102
Level 3: French LiteratureFREN A201/A202
Level 3: German Language8 credits lower-division
German elective
Virgil4 credits lower-division
Latin elective
Catullus-Horace4 credits lower-division
Latin elective
Level 3: Spanish Language.SPAN A101/A102
Level 3: Spanish Literature.....SPAN A201/A202

Government and Politics

American Government and PoliticsPS A101
Comparative Government and PoliticsPS A102

History

American HistoryHIST A131/A132
European HistoryHIST A102
World HistoryHIST A101/A102

Mathematics

Calculus ABMATH A107/A108/A200
Calculus BCMATH A107/A108/A200/A201

Music

Music TheoryMUS A111
Music Listening and LiteratureMUS A121

Physics

Physics BPHYS A123/A123L
Physics C.....PHYS A211/A211L

Psychology

PsychologyPSY A111

Statistics

Statistics.....AS A252

COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)

An Official CLEP Transcript must be submitted to Enrollment Services.

General Exams

UAA awards up to 24 credits for CLEP general exams to students who earn a score of 500 or higher for paper based test and 58 or higher for a computer based test. Credit for CLEP general exams are awarded according to the following standards:

English Comp. No Essay0 Credits No Credit awarded	Natural Sciences6 Credits BIOL A102 - GER and Lower Division Elective, Non-GER
English Composition with Essay3 Credits ENGL A111 - GER	Humanities.....6 Credits Humanities and/or Fine Arts - GER
Mathematics.....3 Credits Lower Division Elective, Non-GER	Social Sciences6 Credits Humanities - GER or Social Sciences - GER

Students must request that an official report of exam scores be sent to Enrollment Services. Examinations may not be repeated for a minimum of six (6) months.

Subject Exams

Credit awarded for subject exams is elective credit or, through agreements with departments, is equated to UAA courses.

Students must request that an official report of exam scores be sent to Enrollment Services. Examinations may not be repeated for a minimum of six (6) months.

DANTES/USAFI EXAMINATIONS

Credit may be awarded for successful completion of the Defense Activity for Non-Traditional Education Support (DANTES) examinations. Credit for exams will be elective credit or, through agreements with departments, will be equated to UAA courses. An official copy of the DANTES/USAFI transcript must be submitted to Enrollment Services.

EXCELSIOR COLLEGE EXAM

Credit may be awarded for successful completion of the Excelsior College Exam. Credit for exams is elective credit or, through agreements with departments, is equated to UAA courses. An official copy of the student's exam scores must be sent to Enrollment Services.

INTERNATIONAL BACCALAUREATE

UAA awards credit for satisfactory performance (a score of 5 or higher), on the International Baccalaureate Examinations.

NATIONAL OCCUPATIONAL COMPETENCY TESTING INSTITUTE (NOCTI) EXAMINATION (907) 786-6446

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.



CHAPTER 9

ACADEMIC PREPARATION, PROFESSIONAL DEVELOPMENT AND TRAINING

Academic Preparation

College Preparatory & Developmental Studies

Professional Development and Continuing Education

College of Education Professional and Continuing Education (PACE)

Community & Technical College Workforce and Professional Education (WPE)

Centers & Institutes Offerings

Tech Prep Program

Tech Prep Program Credit (Non-Concurrent)

General Information

ACADEMIC PREPARATION, PROFESSIONAL DEVELOPMENT AND TRAINING

ACADEMIC PREPARATION

COLLEGE PREPARATORY & DEVELOPMENTAL STUDIES

(907) 786-6856

www.uaa.alaska.edu/cpds/

The mission of the department is to help non-traditional, under-prepared, linguistically diverse, and at-risk students develop the academic and linguistic 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.

PROFESSIONAL DEVELOPMENT AND CONTINUING EDUCATION

COLLEGE OF EDUCATION

PROFESSIONAL AND CONTINUING EDUCATION (PACE)

(907) 786-1932

pace@uaa.alaska.edu

The PACE Office facilitates professional development opportunities for educators and other service professionals. PACE works collaboratively with UAA academic units and partner organizations to provide responsive service and support for 500-level courses, workshops, conferences, institutes, and academies. Committed to addressing the community's immediate and changing professional development needs, PACE works closely with school districts, professional societies, and private and government agencies.

COMMUNITY & TECHNICAL COLLEGE

WORKFORCE AND PROFESSIONAL EDUCATION (WPE)

(907) 786-4940

aywpe@uaa.alaska.edu

Community & Technical College WPE matches business and individual needs with appropriate CTC divisions to deliver high quality, short-term education and training that is responsive to the life-long learning requirements of professionals and technicians in career and technical fields. Programs are custom-developed through partnerships in the community and with public and private agencies and organizations. Both Continuing Education Units (CEU) and non-credit offerings can be arranged.

CENTERS & 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. There 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 course work that will lead a student to a certificate, credential, apprenticeship, associate 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 course work 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 non-traditional 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 Non-Traditional 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 non-traditional transfer credit.

Only Tech Prep courses completed with a grade of C (2.00) or higher will be considered for non-traditional transfer credit.

Credit awarded through the non-traditional 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 non-traditional 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 non-traditional 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 non-traditional transfer credit process, up to two years after completing the partnership course, providing the courses were articulated and approved at the time of completion.

CHAPTER 10

UNDERGRADUATE PROGRAMS

The Curriculum

Academic Programs

Certificates

Non-Transcripted Certificates

Associate Degrees

Baccalaureate Degrees

Minors

Regional Studies

General University Requirements for Undergraduate Certificates and Associate Degree Programs

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Double Majors

Double Degrees

Second Associate Degree

UAA Students

Transfer Students

Associate of Applied Science General Degree Requirements

Associate of Arts Degree Requirements

Associate of Arts with Baccalaureate Degree General Education Requirements Link

Associate Degree Course Classifications

Baccalaureate Degrees

The Academic Major

Requirements for Baccalaureate Degrees

General University Requirements for All Baccalaureate Degrees

General Education Requirements (GER) for Baccalaureate Degrees

Petitions for General Education and/or University Requirement

General Education Classification List

Concurrent Baccalaureate Programs

Double Majors

Multiple Degrees

Second Baccalaureate Degree

UAA Students

Transfer Students

Interdisciplinary Baccalaureate Degrees

Individual Program Listings



UNDERGRADUATE PROGRAMS

THE CURRICULUM

The University of Alaska Anchorage provides curricula that offer its students the opportunity to acquire the intellectual skills, habits of minds, 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

Undergraduate certificates are programs of 30 credits or more that offer focused instruction in a concentrated area. They are particularly appropriate in a scientific or technical area such as health care, computer systems, transportation or industrial technology. Certificates often provide the knowledge and skills needed for entry-level positions in specific employment sectors.

NON-TRANSCRIPTED CERTIFICATES

A Non-Transcribed Certificate documents that an individual has completed a program of formal instruction that may satisfy the training requirement(s) in a code or license regulated field, while not contributing towards either the associate or the baccalaureate degree equivalency.

ASSOCIATE DEGREES

Associate degrees are programs of 60 credits or more that combine focused coursework in a major field with broad studies in the general education areas of written communication, oral communication, humanities, mathematics, natural sciences, and social sciences.

An Associate of Arts degree provides a broad-based program of studies that may be used to satisfy a student's educational need, or may be used as a basis for transfer into a selected baccalaureate degree field.

Associate of Applied Science degrees provide focused curriculum that prepares students for a position in a particular field of employment, or for a particular type of endeavor. Students in these 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 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.

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 will consist of a minimum of 18 credits, at least six (6) of which must be upper-division. Students must earn at least three (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.

GENERAL UNIVERSITY REQUIREMENTS FOR UNDERGRADUATE CERTIFICATES AND ASSOCIATE DEGREE PROGRAMS

General University Requirements have been established for all certificate and degree programs at UAA. Students must complete them in addition to specific certificate and major requirements stated in the program section of this catalog.

GENERAL UNIVERSITY REQUIREMENTS FOR CERTIFICATES

In addition to specific certificate requirements stated in the program section of this catalog, the following requirements must be met in order to obtain a certificate:

1. 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 eight (8) of the last 15 must be resident credits. Additional residency credit requirements, to meet program accreditation standards, may be established.
2. Students must earn a cumulative GPA of at least 2.00 (C) at UAA. Some certificate programs require higher GPAs.
3. Students must earn a minimum of 30 credits for an official transcribed certificate.
4. Students may elect to graduate 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.
5. If the requirements for a certificate as specified in the entry-level catalog are not met within five (5) 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.
6. Students may earn more than one (1) certificate by completing all requirements for each additional program.

GENERAL UNIVERSITY REQUIREMENTS FOR ASSOCIATE DEGREES

The Associate of Arts degree is intended to provide general education. Therefore, it includes no major specialty, and students may earn only one Associate of Arts degree. 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. The following requirements must be met for associate degrees:

1. Students must earn a minimum of 60 credits for either an Associate of Arts or an AAS degree.
2. Students must complete at least 15 credits in residence. Additional residency credit requirements, to meet program accreditation standards, may be established.
3. 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.
4. 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.

5. If the requirements for an associate degree as specified in the entry-level catalog are not met within 5 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.
6. For an Associate of Arts degree, 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.
7. All courses for an Associate of Applied Science degree must be at the 100-level or above.
8. No more than 15 military credits can be applied to an associate degree.

CONCURRENT ASSOCIATE PROGRAMS

DOUBLE MAJORS

Associate of Applied Science degree-seeking students may apply to graduate (during the same semester) with two majors, providing the degree program is the same for each major. 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 Services.

Students must satisfy the General University Requirements, the General Education 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.

DOUBLE DEGREES

Associate 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 of a double degree.

Students must submit a separate application for admission for each degree they expect to receive. Admission forms are available from Enrollment Services.

Associate degree-seeking students must complete the General University Requirements, the General Education Requirements for their primary program, the requirements for both major 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.

SECOND ASSOCIATE DEGREE

The Associate of Arts degree is intended to provide students with the education necessary to undertake baccalaureate degree work. Due to its general intent, only one Associate of Arts degree may be earned per student.

UAA STUDENTS

Students who have received an Associate of Applied Science degree from UAA and who want to obtain another Associate of Applied Science degree must:

1. Meet admission requirements.
2. Complete at least 12 resident credits beyond the previous associate degree(s).
3. Complete the Major Program 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 an associate degree from UAA must:

1. Meet admission requirements.
2. Complete the General University Requirements but not the General Education Requirements.
3. Complete the Major Program Requirements.

ASSOCIATE OF APPLIED SCIENCE GENERAL DEGREE REQUIREMENTS

All courses must be at the 100-level or above.

Classification	Credits
1. Oral Communication Skills.....	3
COMM A111 Fundamentals of Oral Communication	
COMM A235 Small Group Communication	
COMM A237 Interpersonal Communication	
COMM A241 Public Speaking	
2. Written Communication Skills.....	6
CIOS A260A Business Communications	
ENGL A111 Methods of Written Communication and one of the following:	
ENGL A211 Academic Writing About Literature	
ENGL A212 Technical Writing	
ENGL A213 Writing in the Social and Natural Sciences	
ENGL A214 Persuasive Writing	
3. General Requirements.....	6
Choose one or a combination of Humanities*, Math, Natural Sciences, or Social Sciences courses. (See Associate Degree Course Classifications list below.) Courses chosen must be at the 100-level or above.	
<i>*Any English course used to satisfy the Humanities general requirement must be different from the written communications requirement and have a course number higher than ENGL A111.</i>	
4. Major Specialty (See Degree Programs).....	Varies
5. Electives	Varies
Total Minimum Credits.....	60

ASSOCIATE OF ARTS DEGREE REQUIREMENTS

The College of Arts and Sciences offers an Associate of Arts degree, the requirements for which are located in the College of Arts and Sciences section of this catalog.

ASSOCIATE OF ARTS WITH BACCALAUREATE DEGREE GENERAL EDUCATION REQUIREMENTS LINK

Associate degree students who plan to enroll in a baccalaureate degree program can maximize transferability/applicability of their credits by taking courses that satisfy the Baccalaureate Degree General Education Requirements to meet Associate of Arts degree requirements. More specific information on what courses to take can be found in the College of Arts and Sciences section of this chapter.

ASSOCIATE DEGREE COURSE CLASSIFICATIONS

Students in associate degree programs should use the following table to determine which courses meet their requirements.

Applied Studies

Accounting
Aerospace Science (ROTC)
Agriculture
Alaska Outdoor and Experiential Education
Applied Technology
Architectural and Engineering Technology
Automotive and Diesel Technology
Aviation Technology
Business Administration
Civil Engineering
Community Education
Computer Information and Office Systems
Computer Information Systems
Computer and Networking Technology
Computer Systems Engineering
Culinary Arts
Dental Assisting
Dental Hygiene
Dietetics and Nutrition
Early Childhood Development
Education
Electrical Engineering
Electronics Technology
Emergency Medical Technology
Engineering Design and Drafting
Engineering Science
Engineering and Science Management
English-As-A-Second Language
Environmental Studies
Family and Consumer Sciences
Fire Service Administration
Fisheries Technology
Floral Design
Geographic Information Systems
Geomatics
Health
Health Care Assisting
Health Sciences
Human Services
Interior Design
Journalism and Public Communications
Justice
Library Science
Logistics
Logistics Operations
Marine Technology
Massage Therapy
Mechanical Technology
Medical Assisting
Medical Laboratory Technology
Nursing

Applied Studies (continued)

Nursing-Practical Nursing
Nursing Science
Occupational Safety and Health
Paralegal Studies
Paramedical Technology
Petroleum Technology
Pharmacology
Physical Education
Process Technology
Radiologic Technology
Refrigeration and Heating
Social Work
Technology
Vocational Education
Vocational Skills
Wastewater Treatment
Welding Technology

Humanities

Alaska Native Studies
American Sign Language
Art
Chinese
Communication
Creative Writing and Literary Arts
Dance
English**
French
German
History*
Humanities
Italian
Japanese
Journalism and Public Communications
(JPC A215 and A367 only)
Korean
Languages
Latin
Liberal Studies Integrated Core
Linguistics
Music
Philosophy
Political Science (PS A331, A332, and A333 only)
Preparatory English**

**History and Women's Studies may be used for either Humanities or Social Sciences credit, but not for both.*

***Any English course used to satisfy the Humanities general requirement (applies only to the Associate of Applied Science degree, not the Associate of Arts) must be different from the written communications requirement and have a course number higher than ENGL A111.*

Humanities (continued)

Russian
Spanish
Theatre
Women's Studies*

Mathematics and Natural Sciences

Anthropology (ANTH A205 only)
Applied Statistics
Astronomy
Biological Sciences
Chemistry
Computer Science
Environmental Studies (ENVI A202 only)
Geography (GEOG A205 and A205L only)
Geology
Liberal Studies Integrated Science
Mathematics (MATH A101 not applicable as Math Requirement for an Associate of Arts degree)
Philosophy (PHIL A101 only)
Physics

Social Sciences

Anthropology
Business Administration (BA A151 only)
Counseling
Economics
Environmental Studies (ENVI A201 only)
Geography (except GEOG A205 and A205L)
Guidance
Health Sciences (HS A220 only)
History*
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*

**History and Women's Studies may be used for either Humanities or Social Sciences credit, but not for both.*

***Any English course used to satisfy the Humanities general requirement (applies only to the Associate of Applied Science degree, not the Associate of Arts) must be different from the written communications requirement and have a course number higher than ENGL A111.*

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.

REQUIREMENTS FOR BACCALAUREATE DEGREES

To receive a baccalaureate degree from UAA, students must satisfy:

- General University Requirements;
- General Education Requirements;
- School/College Requirements, if applicable; and
- Major Program Requirements.

For General Education Requirements, refer to the "General Education Requirements (GER) for Baccalaureate Degrees" section of this chapter. For School/College and Major Program Requirements, refer to the appropriate school or college section of this catalog.

GENERAL UNIVERSITY REQUIREMENTS FOR ALL BACCALAUREATE DEGREES

1. Students must earn at least 120 credits at the 100 level and above. Some degree programs require completion of additional credits.
2. Students must earn at least 42 upper-division credits, including 24 upper-division credits in residence. Some degree programs require completion of additional upper division credits.
3. Students must earn at least 30 credits in residence. In addition, transfer students must earn in residence at least 12 credits in each major field and, where applicable, at least three (3) credits in each minor field. 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. They must also earn a cumulative GPA of at least 2.00 (C) in all courses required for each major and each minor. Some degree programs may require higher GPAs.
5. 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.
6. If the requirements for a baccalaureate degree, as specified in the entry-level catalog, are not met within seven (7) 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 follow established UAA procedures for declaring a major and for changing a major or degree. Students who change their major or degree must satisfy the catalog requirements for the new major or degree in effect at the time of the change.
8. No more than 30 military credits can be applied to a baccalaureate degree.

GENERAL EDUCATION REQUIREMENTS (GER) FOR BACCALAUREATE DEGREES

The General Education Requirement provides students with a common educational experience that will foster the development of habits and capabilities fundamental to personal growth and productive life.

To this end, UAA students take courses in six basic areas:

1. Courses in Written and Oral Communication develop the critical reading, thinking, and communication faculties (writing, speaking, and listening) necessary for personal and professional success.
2. Courses in Quantitative Skills foster the analytical and mathematical abilities necessary for success in undergraduate study and professional life.
3. Courses in the Humanities consider the cultural, historical, literary, aesthetic, ethical, and spiritual traditions shaping the contemporary world.
4. Courses in the Fine Arts examine the historical, aesthetic, critical, and creative aspects of art.
5. Courses in the Social Sciences explore insights about individuals, groups, and cultures derived from empirical methodologies.
6. Courses in the Natural Sciences present theoretical and descriptive approaches to understanding the natural and physical worlds.

Throughout these studies, where applicable, students are encouraged to master information technologies, appreciate the multicultural reality of contemporary life, practice critical thinking, and consider the ethical commitments in forming responsible citizenship.

All students who earn a baccalaureate degree from UAA must have completed the General Education Requirements (34 credits required). Courses may fulfill more than one requirement in a degree program. No course may be counted in more than one General Education category. Courses ending with numbers __93 or __94 will not satisfy a GER. UAA courses not on the approved GER list cannot be petitioned to meet a GER.

After completing the General Education Requirements, 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. Comprehend the concepts and perspectives needed to function in a multicultural society.
9. Integrate creative and critical thinking and personal experience in a meaningful and coherent manner.

Courses listed here as satisfying a General Education Requirement are also identified in the course description area of the catalog.

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, a copy reflecting that decision will be returned to the student and advisor. 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.

GENERAL EDUCATION CLASSIFICATION LIST

Classification	Credits	Classification	Credits
1. Oral Communication Skills	3	Written Communication Skills, continued	
Courses that fulfill this requirement are those which emphasize the acquisition of English language skills in orally communicating ideas in an organized fashion through instruction accompanied by practice.		ENGL A312 Advanced Technical Writing	
Courses completed at UAA must be selected from the following:		ENGL A414 Research Writing	
COMM A111 Fundamentals of Oral Communication			
COMM A235 Small Group Communication		3. Quantitative Skills	3
COMM A237 Interpersonal Communication		Courses that fulfill this requirement are those which emphasize the development and application of quantitative problem-solving skills as well as skills in the manipulation and/or evaluation of quantitative data.	
COMM A241 Public Speaking		Courses completed at UAA must be selected from the following:	
2. Written Communication Skills	6	AS A252 Elementary Statistics	
Courses that fulfill this requirement are those which emphasize the acquisition of English language skills in organizing and communicating ideas and information through expository writing.		AS A307 Probability and Statistics	
Courses completed at UAA must be selected from the following:		MATH A107 College Algebra	
ENGL A111 Methods of Written Communication		MATH A108 Trigonometry	
ENGL A211 Academic Writing About Literature		MATH A109 Precalculus	
ENGL A212 Technical Writing		MATH A200 Calculus I	
ENGL A213 Writing in the Social & Natural Sciences		MATH A201 Calculus II	
ENGL A214 Persuasive Writing		MATH A270 Applied Finite Mathematics for the Managerial Sciences	
ENGL A311 Advanced Composition		MATH A272 Calculus for Managerial Sciences	

GENERAL EDUCATION CLASSIFICATION LIST, CONTINUED

Classification	Credits	Classification	Credits
4. Humanities* (outside the major)	6	Humanities, continued	
Courses that fulfill this requirement are those which introduce the student to the humanistic fields of language, arts, literature, history and philosophy within the context of their traditions.		ITAL A101	Elementary Italian I
*Note: History and Women's Studies may be applied to either the Humanities or the Social Sciences requirements but not to both. The student may not count one or more history course toward one requirement and an additional history course or courses toward the other.		ITAL A102	Elementary Italian II
Courses completed at UAA must be selected from the following:		JPC A215	History of Mass Communication
AKNS A101	Alaska Native Languages I	JPC A367	History of Photography
AKNS A102	Alaska Native Languages II	JPN A101	Elementary Japanese I
AKNS A201	Native Perspectives	JPN A102	Elementary Japanese II
ART A261	History of World Art I	JPN A201	Intermediate Japanese I
ART A262	History of World Art II	JPN A202	Intermediate Japanese II
ART A367	History of Photography	KOR A101	Elementary Korean I
ASL A101	Elementary American Sign Language I	KOR A102	Elementary Korean II
ASL A102	Elementary American Sign Language II	LAT A101	Elementary Latin I
ASL A201	Intermediate American Sign Language I	LAT A102	Elementary Latin II
ASL A202	Intermediate American Sign Language II	LING A101	The Nature of Language
CHIN A101	Elementary Chinese I	MUS A221	History of Music I
CHIN A102	Elementary Chinese II	MUS A222	History of Music II
ENGL A121	Introduction to Literature	PHIL A101	Introduction to Logic
ENGL A201	Masterpieces of World Literature I	PHIL A201	Introduction to Philosophy
ENGL A202	Masterpieces of World Literature II	PHIL A211	History of Philosophy I
ENGL A301	Literature of Britain I	PHIL A212	History of Philosophy II
ENGL A302	Literature of Britain II	PHIL A301	Ethics
ENGL A305	Topics in National Literatures	PHIL A313B	Eastern Philosophy and Religion
ENGL A306	Literature of the United States I	PHIL A314	Western Religion
ENGL A307	Literature of the United States II	PS A331	Political Philosophy
ENGL A310	Ancient Literature	PS A332	History of Political Philosophy I: Classical
ENGL A383	Film Interpretation	PS A333	History of Political Philosophy II: Modern
ENGL A445	Alaska Native Literatures	RUSS A101	Elementary Russian I
FREN A101	Elementary French I	RUSS A102	Elementary Russian II
FREN A102	Elementary French II	RUSS A201	Intermediate Russian I
FREN A201	Intermediate French I	RUSS A202	Intermediate Russian II
FREN A202	Intermediate French II	SPAN A101	Elementary Spanish I
GER A101	Elementary German I	SPAN A102	Elementary Spanish II
GER A102	Elementary German II	SPAN A201	Intermediate Spanish I
GER A201	Intermediate German I	SPAN A202	Intermediate Spanish II
GER A202	Intermediate German II	THR A311	Representative Plays I
HIST A101	Western Civilization I	THR A312	Representative Plays II
HIST A102	Western Civilization II	THR A411	History of the Theatre I
HIST A121	East Asian Civilization I	THR A412	History of the Theatre II
HIST A122	East Asian Civilization II	WS A200	Introduction to Women's Studies
HIST A131	History of United States I		
HIST A132	History of United States II		
HIST A341	History of Alaska		
HUM A211	Introduction to Humanities I		
HUM A212	Introduction to Humanities II		
HUM A250	Myths and Contemporary Culture		
		5. Fine Arts**	3
		Courses that fulfill this requirement are those that provide the student with an introduction to the fine arts (visual arts and performing arts) as academic disciplines as opposed to those that emphasize acquisition of skills.	
		**Note: Music Majors must select courses outside the major. Courses completed at UAA must be selected from the following:	
		ART A160	Art Appreciation
		ART A261	History of World Art I
		ART A262	History of World Art II

Classification	Credits	Classification	Credits
Fine Arts, continued		Social Sciences, continued	
ART A367 History of Photography		PSY A150 Life Span Development	
DNCE A170 Dance Appreciation		SOC A101 Introduction to Sociology	
JPC A367 History of Photography		SOC A201 Social Problems and Solutions	
MUS A121 Music Appreciation*		SOC A202 The Social Organization of Society	
MUS A221 History of Music I*		SOC A222 Small and Rural Communities	
MUS A222 History of Music II*		SOC A342 Sexual, Marital and Family Lifestyles	
THR A111 Introduction to the Theatre		SOC A351 Political Sociology	
THR A311 Representative Plays I		SWK A106 Introduction to Social Welfare	
THR A312 Representative Plays II		SWK A243 Cultural Diversity and Community Services	
THR A411 History of the Theatre I		WS A200 Introduction to Women's Studies	
THR A412 History of the Theatre II			
6. Social Sciences*	6	7. Natural Sciences	7
(outside the major; from 2 different disciplines)		(must include a laboratory course)	
Courses that fulfill this requirement are broad survey courses which provide the student with exposure to the theory, methods, and data of the social sciences.		Courses that fulfill this requirement are those that provide the student with broad exposure and include general introduction to the theory, methods, and disciplines of the natural sciences.	
*Note: History and Women's Studies may be applied to either the Humanities or the Social Sciences requirement but not to both. The student may not count one or more history courses toward one requirement and an additional history course or courses toward the other.		Courses completed at UAA must be selected from the following:	
Courses completed at UAA must be selected from the following:		ASTR A103 Introductory Astronomy I	
ANTH A101 Introduction to Anthropology		ASTR A104 Introductory Astronomy II	
ANTH A200 Natives of Alaska		BIOL A102 Introductory Biology	
ANTH A202 Cultural Anthropology		BIOL A103 Introductory Biology Laboratory	
ANTH A250 The Rise of Civilization		BIOL A111 Human Anatomy and Physiology I	
BA A151 Introduction to Business		BIOL A112 Human Anatomy and Physiology II	
ECON A201 Principles of Macroeconomics		BIOL A115 Fundamentals of Biology I	
ECON A202 Principles of Microeconomics		BIOL A116 Fundamentals of Biology II	
ENVI A201 Living on Earth: Introduction to Environmental Studies		BIOL A178 Fundamentals of Oceanography	
GEOG A101 Introduction to Geography		BIOL A179 Fundamentals of Oceanography Lab	
HIST A101 Western Civilization I		CHEM A103/L Survey of Chemistry	
HIST A102 Western Civilization II		CHEM A104/L Introduction to Organic Chemistry and Biochemistry	
HIST A121 East Asian Civilization I		CHEM A105/L General Chemistry I	
HIST A122 East Asian Civilization II		CHEM A106/L General Chemistry II	
HIST A131 History of United States I		ENVI A202 Earth as an Ecosystem: Introduction to Environmental Science	
HIST A132 History of United States II		GEOG A205/L Elements of Physical Geography	
HIST A341 History of Alaska		GEOL A111 Physical Geology	
HS A220 Core Concepts in the Health Sciences		GEOL A112 Historical Geology	
HUMS A106 Introduction to Social Welfare		GEOL A115/L Environmental Geology	
INTL A301 Canada: Introductory Survey		GEOL A178 Fundamentals of Oceanography	
JPC A101 Introduction to Mass Communication		GEOL A179 Fundamentals of Oceanography Lab	
JUST A110 Introduction to Justice		LSIS A101 Discoveries in Science	
JUST A330 Justice and Society		LSIS A102 Origins: Earth-Solar Systems-Life	
PARL A101 Introduction to Law		LSIS A201 Life on Earth	
PS A101 Introduction to American Government		LSIS A202 Concepts and Processes: Natural Sciences	
PS A102 Introduction to Political Science		PHYS A101 Physics for Poets	
PS A311 Comparative Politics		PHYS A123/L Basic Physics I	
PS A351 Political Sociology		PHYS A124/L Basic Physics II	
PSY A111 General Psychology		PHYS A211/L General Physics I	
		PHYS A212/L General Physics II	

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 Services. 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 Services. 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, all 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 transferrable 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 Directors(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 Enrollment Services.
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 Enrollment Services to insure that all degree requirements are met.

UNIVERSITY HONORS PROGRAM

<http://honors.uaa.alaska.edu>

Academic Affairs, Business Education Building (BEB), Room 119, (907) 786-1086

The University Honors Program is designed to provide enhanced educational opportunities for outstanding UAA students leading to a designation of "University Honors Scholar" upon graduation. Honors courses will approach the course subject matter with more intensity and rigor than is demanded of typical courses at that level. Honors students will also participate in a range of honors activities designed to enhance intellectual and personal opportunities.

In addition to the University Honors Program, several departments at UAA offer departmental honors programs. 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 Program requirements. In addition, students pursuing only departmental honors may enroll in some University Honors Program courses with permission of the University Honors Program Director, and on a space available basis.

ADMISSION TO THE UNIVERSITY HONORS PROGRAM

1. Admission to the University Honors Program 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 Program application, including supporting documents, to the Program Office (BEB 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 Program office.
3. In general, students applying to the University Honors Program from high school or transferring into the program with previous college-level work must have at least a 3.0 GPA, and show strong evidence of ability to reach and maintain a 3.5 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 Program will be determined by the Honors Program Admission Committee. Admission is based on an overall evaluation of the student's probability of success in the Program, 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 WITH "UNIVERSITY HONORS"

1. Students must meet all General University Requirements, General Education Requirements, School/College requirements, and major requirements as printed in the UAA catalog. Students enrolled in the University Honors Program who successfully complete the Core Honors Requirements listed in section 2

below may apply three credits toward satisfying the General Education requirement in the humanities and three credits toward satisfying the General Education requirement in the social sciences.

2. Students must complete the following University Honors Program Curriculum requirements with a grade of "C" or higher:

Core Honors Requirements:

HNRS A192	Honors Seminar: Enduring Books	3
HNRS A292	Honors Seminar in Social Science	3
HNRS A310	Community Service: Theory and Practice	3
Total core honors credits required:		9

Upper-division Honors Requirements:

HNRS A392	Honors Thesis Seminar	1
and one of the following options to total 6 credits		

- A. HNRS A490 Senior Honors Seminar (6 credits over two semesters) 6
or
- B. A course proposed by the student, and approved by the Honors Program Director (3 credits minimum; may be an existing course or independent study) and
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
Senior thesis or project (3 credits minimum; either departmental thesis/project, or HNRS A499 Honors Thesis).
or
- D. Six-credit thesis/project (either departmental thesis/project, or HNRS A499 Honors Thesis).

Total upper-division honors credits required:	7
Total University Honors Program credits required (9 core + 7 upper-division):	16

3. Students must have earned a cumulative grade point average of 3.5 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 Program.

FACULTY

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COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is dedicated to the principle that an enlightened understanding of the world is fostered by study of an individual's physical environment, one's cultural values and processes, one's creative expressions, and one's 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 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 course work 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:

English

Four years with emphasis on spelling, writing, grammar, and research skills such as preparation of bibliographies.

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.

Language

One to two years. Suggested languages: German, Russian, Latin, Japanese, French, Spanish, Chinese, or Native Languages.

Social Sciences

Two years with emphasis in World History, U.S. History, Comparative Political Theory, Current Events, Geography, Cultural Anthropology, and/or Prehistoric Archaeology.

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.

COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

To earn a Bachelor of Arts; Bachelor of Science; or Bachelor of Music, Performance, students must complete the CAS requirements shown below, in addition to the General Education Requirements, the General University Requirements, and major program requirements. Students completing an interdisciplinary studies degree in which all academic disciplines represented in their major concentration are within the College of Arts and Sciences must also meet the CAS BA or BS requirements. Students should examine the program descriptions for the major program and consult with an advisor before making final course selections. Some courses may be used to satisfy more than one requirement in a degree program.

ELECTIVES

No more than 6 credits in lower-division physical education courses (EDPE) and/or Alaska Outdoor and Experiential Education courses (AOEE) 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.

- | | |
|--|-----|
| A. Cultural Heritages | |
| 1. Comparative Cultures | 3 |
| (ANTH A250) | |
| 2. Western Culture | 6 |
| (HIST A101 and HIST A102) | |
| 3. American Culture | 3 |
| (HIST A131, HIST A132, PS A101) | |
| B. Arts and Letters | |
| 1. Introduction to Literature | 3 |
| (ENGL A121, A301, A302, A305, A306, A307) | |
| 2. Language/Humanities | 6-8 |
| Any two semester sequence in one of the following humanities sequences or in a language other than English: | |
| (AKNS A101-A102, Art A261-A262, ENGL A201-A202, MUS A221-A222*, PHIL A211-A212, PHIL A313B-A314, PS A332-A333, THR A311-A312, THR A411-A412) | |
| *BA Music majors must select courses outside their major. | |
| C. Ways of Knowing | 3 |
| (ENGL A120, PHIL A101, PHIL A201, PHIL A301, PHIL A421) | |
| D. Social Behavior | 3 |
| Choose one of the following not in the major: | |
| (ANTH A101, COMM A101, ECON A201, JPC A101, PS A102, PSY A111, SOC A101, SWK/HUMS A106) | |

BACHELOR OF SCIENCE

The requirements of the Bachelor of Science degree are designed to equip students with the technical competencies needed in scientific disciplines.

- | | |
|---|------------|
| A. Mathematics and Statistics
(MATH A200 or MATH A272)
(AS A253 or AS A307) | 3-4
3-4 |
| B. Computer Programming
(CS A105, CS A107, CS A109, CS A201, CS A203, ES A201) | 3 |
| C. Language/Humanities
Any 2 semester sequence in French, German, Japanese,
Russian, or Spanish or one of the following humanities
sequences:
(ART A261-A262, ENGL A201-A202, MUS A221-A222
PHIL A211-A212, PHIL A313B-A314, PS A332-A333
THR A311-A312, THR A411-A412) | 6-8 |
| 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, A112
PHYS A123/L, A124/L, A211/L, A212/L) | 9* |

**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 |
| Any 2 semester language sequence. | |

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 courses required. Also see Minors policy in this chapter.

ASSOCIATE OF ARTS

ADMISSION REQUIREMENTS

Complete the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, "Academic Standards and Regulations."

GENERAL UNIVERSITY REQUIREMENTS

Complete the Associate Degrees General University Requirements located at the beginning of this chapter.

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. If you intend to complete the Associate of Arts degree and then continue on to a baccalaureate degree, consult the Associate of Arts with Baccalaureate Degree General Education Requirements Link listed below.

- | | |
|--|----|
| 1. Oral Communication Skills | 3 |
| COMM A111 or A235 or A237 or A241 | |
| 2. Written Communication Skills | 6 |
| ENGL A111 Methods of Written Communication | |
| and one of the following: | |
| ENGL A211 Academic Writing About Literature | |
| ENGL A212 Technical Writing | |
| ENGL A213 Writing in the Social and Natural Sciences | |
| ENGL A214 Persuasive Writing | |
| CIOA A260A Business Communications | |
| 3. Applied Studies* | 9 |
| 4. Humanities* | 9 |
| 5. Math and Natural Sciences* | 9 |
| 6. Social Sciences* | 9 |
| 7. Electives* | 15 |
| Total Minimum Credits | 60 |

**Consult the Associate Degree Course Classifications list located near the beginning of this chapter.*

ASSOCIATE OF ARTS WITH BACCALAUREATE DEGREE

GENERAL EDUCATION REQUIREMENTS LINK

Associate degree students who plan to enroll in a baccalaureate degree program can maximize transferability/applicability of their credits by taking the following courses to meet Associate of Arts 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.

- | | |
|---|---|
| 1. Oral Communication Skills | 3 |
| COMM A111 or A235 or A237 or A241 | |
| 2. Written Communication Skills | 6 |
| ENGL A111 Methods of Written Communication | |
| and one of the following: | |
| ENGL A211 Academic Writing About Literature | |
| ENGL A212 Technical Writing | |
| ENGL A213 Writing in the Social and Natural Sciences | |
| ENGL A214 Persuasive Writing | |
| 3. Applied Studies* | 9 |
| Courses that meet this requirement focus on the application of skills and/or methodology of a discipline. | |
| 4. Humanities | 9 |
| Choose 6 credits from the Humanities and 3 credits from the Fine Arts General Education Requirements for Baccalaureate Degrees List. | |
| 5. Math and Natural Sciences | 9 |
| Choose one course (3 credits) from the Quantitative Skills General Education Requirements for Baccalaureate Degrees list and 2 courses (7 credits) from the Natural Sciences General Education Requirements for Baccalaureate Degrees list, including a lab course. | |

- | | |
|---|----|
| 6. Social Sciences | 9 |
| Choose at least 6 credits from the Social Sciences Baccalaureate General Education Requirements List. | |
| 7. Electives | 15 |
| Total Minimum Credits | 60 |
- *Consult the Associate Degree Course Classifications list located near the beginning of this chapter..*

ALASKA NATIVE STUDIES

<http://native.uaa.alaska.edu>

Social Sciences Building (SSB), Room 378, (907) 786-6135

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 focuses 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 (6 credits):

AKNS A201	Native Perspectives	3
AKNS A492	Seminar: Cultural Knowledge of Native Elders	3
2. Complete one of the following Focus Areas (7-9 credits):
 - 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 (8 credits):

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/PS A110	Parliamentary Procedures (1)	
AKNS/DNCE A146	Introduction to Alaska Native Dance (1-2)	
AKNS/MUS A215	Music of Alaska Natives and Indigenous Peoples of Northern Regions (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)	

- | | |
|-----------|---------------------------------------|
| EDPE A145 | Alaska Native Survival Techniques (3) |
| ENGL A344 | Topics in Native Literatures (3) |
| ENGL A445 | Alaska Native Literature (3) |
| HIST A235 | History of American Indians (3) |
| HIST A341 | History of Alaska (3) |
| JUST A455 | Rural Justice (3) |
| JUST A462 | Indian Law and the Settlement Act (3) |

4. A minimum of 19 credits is required for the minor, of which 6 credits must be upper-division.

FACULTY

Jeanne Eder, Associate Professor/Director, AFJME@uaa.alaska.edu

Edgar Blatchford, Associate Professor, Edgarblatchford@hotmail.com

ANTHROPOLOGY

<http://anthro.uaa.alaska.edu>

Beatrice McDonald Hall (BMH), Room 214, (907) 786-6840

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.

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 four of the following core courses (12 credits):

ANTH A202	Cultural Anthropology (3)
ANTH A205	Biological Anthropology (3)
ANTH A210	Introduction to Anthropological Linguistics (3)
ANTH A211	Fundamentals of Archaeology (3)
ANTH A260	Old World Archaeology (3)

3. Complete the following course (3 credits):
 ANTH A410 History of Anthropology 3
4. Complete three ethnographic area courses from the following (9 credits): 9

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 A426	Arctic Ethnology (3)
ANTH A427	Ethnohistory of Alaska Natives (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	Athapaskan Adaptations (3)

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 (3)
ANTH A330	Ancient Civilizations of Mexico and Guatemala (3)
ANTH A413	Peopling of the Americas (3)
ANTH A416	Arctic Archaeology (3)
5. Complete two courses from the following topical/theoretical courses (6 credits): 6

ANTH A270	Cross-Cultural Perspectives on Women (3)
ANTH A324	Culture and Personality (3)
ANTH A350	Survey of the Primates (3)
ANTH A354	Culture and Ecology (3)
ANTH A365	Races: Modern Human Diversity (3)
ANTH A400	Anthropology of Religion (3)
ANTH A415	Applied Anthropology (3)
ANTH A432	Hunting and Gathering Societies (3)
ANTH A445	Evolution of Humans and Disease (3)
ANTH A450	Human Evolution (3)
ANTH A455	Medical Anthropology (3)
ANTH/JUST A456	Anthropology and the Law (3)
ANTH A457	Food and Nutrition: An Anthropological Perspective (3)
ANTH A480	Analytical Techniques in Archaeology (3)
ANTH A482	Historical Archaeology (3)
ANTH A485	Human Osteology (3)
6. Anthropology Electives (6 credits): 6
 Any course in Anthropology, except for ANTH A250, may be applied toward the elective requirement.
7. Complete one statistics course from the following: 3

AS A252	Elementary Statistics (3)
AS A307	Probability and Statistics (3)
8. Anthropology majors may apply to the department at the end of their junior year to undertake independent research resulting in a substantial, thesis-quality paper. A maximum of six credits will be given for the two-semester project. Prior arrangements with the department are required.
9. Selected and Special Topics courses and Independent Study courses in Anthropology may be petitioned to satisfy ethnographic area or topical/theoretical courses requirements, depending on the course content.
10. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

BACHELOR OF SCIENCE, ANTHROPOLOGY

1. Complete 36 credits from items 2 through 6, 18 of which must be upper-division credits.
2. Complete four of the following core courses (12 credits): 12

ANTH A202	Cultural Anthropology (3)
ANTH A205	Biological Anthropology (3)
ANTH A210	Introduction to Anthropological Linguistics (3)
ANTH A211	Fundamentals of Archaeology (3)
ANTH A260	Old World Archaeology (3)
3. Complete the following course (3 credits): 3
 ANTH A410 History of Anthropology
4. Complete three ethnographic area courses from the following (9 credits): 9

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 A426	Arctic Ethnology (3)
ANTH A427	Ethnohistory of Alaska Natives (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	Athapaskan Adaptations (3)

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 (3)
ANTH A330	Ancient Civilizations of Mexico and Guatemala (3)
ANTH A413	Peopling of the Americas (3)
ANTH A416	Arctic Archaeology (3)
5. Complete two courses from the following topical/theoretical courses (6 credits): 6

ANTH A270	Cross-Cultural Perspectives on Women (3)
ANTH A324	Culture and Personality (3)
ANTH A350	Survey of the Primates (3)
ANTH A354	Culture and Ecology (3)
ANTH A365	Races: Modern Human Diversity (3)
ANTH A400	Anthropology of Religion (3)
ANTH A415	Applied Anthropology (3)
ANTH A432	Hunting and Gathering Societies (3)
ANTH A445	Evolution of Humans and Disease (3)
ANTH A450	Human Evolution (3)
ANTH A455	Medical Anthropology (3)
ANTH/JUST A456	Anthropology and the Law (3)
ANTH A457	Food and Nutrition: An Anthropological Perspective (3)
ANTH A480	Analytical Techniques in Archaeology (3)
ANTH A482	Historical Archaeology (3)
ANTH A485	Human Osteology (3)
6. Anthropology Electives (6 credits): 6
 Any course in Anthropology, except ANTH A250, may be applied toward the elective requirement.
7. Complete the following statistics course: 3-4

AS A307	Probability and Statistics (3)
or	
AS A253	Applied Statistics for the Sciences (4)

8. Anthropology majors may apply to the department at the end of their junior year to undertake independent research resulting in a substantial, thesis-quality paper. A maximum of six credits will be given for the two-semester project. Prior arrangements with the department are required.
9. Special and Selected Topics courses and Independent Study courses in Anthropology may be petitioned to satisfy ethnographic area or topical/theoretical courses requirements, depending on the course content.
10. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

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 from the following (6 credits): 6

ANTH A101	Introduction to Anthropology (3)
ANTH A202	Cultural Anthropology (3)
ANTH A205	Biological Anthropology (3)
ANTH A210	Introduction to Anthropological Linguistics (3)
ANTH A211	Fundamentals of Archaeology (3)
ANTH A260	Old World Archaeology (3)
2. Complete at least one course from either the ethnographic area or the topical/theoretical area, as specified above for majors in Anthropology (3 credits). 3
3. Complete three courses of anthropology electives (9 credits). 9

FACULTY

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APPLIED STATISTICS

www.math.uaa.alaska.edu
 Social Sciences Building (SSB), Room 154, (907) 786-1742/4824

Applied Statistics courses are offered in the Department of Mathematical Sciences.

During the past several decades, the social and economic structure of the United States has shifted from an industrialized base 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, APPLIED STATISTICS

Students majoring in another subject who wish to minor in Applied Statistics must complete the following requirements:

1. Complete these required courses (14 credits):

AS A307	Probability and Statistics	3
AS A308	Intermediate Statistics	3
MATH A200	Calculus I	4
MATH A201	Calculus II	4
2. Complete a minimum of 9 credits from the following: 9

AS A400	Selected Topics in Statistics (3) (maximum 3 credits)
AS A402	Scientific Sampling (3)
AS A403	Regression Analysis (3)
AS A404	Analysis of Variance (3)
AS A405	Nonparametric Statistics (3)
AS A407	Time Series Analysis (3)
AS A408	Multivariate Analysis (3)
MATH A371	Probability Models (3)
MATH A407	Mathematical Statistics I (3)
MATH A408	Mathematical Statistics II (3)
3. A total of 23 credits is required for the minor.

FACULTY

Cora Neal, Assistant Professor, AFCLN@uaa.alaska.edu
Kanapathi Thiru, Professor, AFKT@uaa.alaska.edu
Philip Turk, Assistant Professor, AFPJT@uaa.alaska.edu

ART

<http://art.uaa.alaska.edu>
 Fine Arts Building (ARTS), Room 302A, (907) 786-1783

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.

Students choose from three areas of study:

- BA in Art -- creative problem solving in a liberal arts context
- BFA in Art -- professional art training
- continuing education -- either as a pre or post-baccalaureate student.

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 or strongly suggest 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 but may find the classroom experience difficult or unrewarding.
4. Art majors must obtain pre-registration advising and approval from art faculty for art course work undertaken each semester.

ART EDUCATION - TEACHER PREPARATION

Students preparing to teach art should consult the College of Education concerning university programs leading to art teacher certification.

GRAPHIC DESIGN OPTION - BACHELOR OF ARTS IN JPC

The Department of Journalism and Public Communications, in cooperation with the Department of Art, offers the Bachelor of Arts Degree in Journalism and Communications with the Graphic Design Option. Refer to the Journalism and Public Communications section of this University Catalog for degree requirements, or contact either department for more information.

GRAPHIC DESIGN STUDIO EMPHASIS - BACHELOR OF FINE ARTS 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.

BACHELOR OF ARTS, ART

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. 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 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

LOWER-DIVISION ART (27 CREDITS):

- Complete the following core courses (18 credits):

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 World Art I	3
ART A262	History of World Art II	3
- Choose one two-dimensional course, one three-dimensional course, and one course from either list to total 9 credits: 9

Two-Dimensional Area:

ART A112	Color Design (3)
ART A213	Beginning Painting (3)
ART A215	Beginning Printmaking (3)
ART/JPC A224	Beginning Photography (3)
ART A252	Beginning Graphic Design and Illustration (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)
ART A209	Beginning Metalsmithing and Jewelry (3)
ART A211	Beginning Sculpture (3)
ART A272	Beginning Fiber Structures (3)
ID A141	Interior Design (3)

UPPER-DIVISION ART (21 CREDITS):

- Complete a total of 15 upper-division credits in the areas of studio emphasis listed below, a minimum of 9 upper-division credits must be in a single area of studio emphasis: 15

Painting	Photography
Illustration	Drawing
Printmaking	Jewelry/Metalsmithing
Sculpture	Ceramics
Fibers*	
- Complete 6 credits in upper-division Art History courses. 6

*Note: All courses in Fibers are currently taught at the Matanuska-Susitna College and Kenai Peninsula College campuses.

MISCELLANEOUS REQUIREMENTS (21 CREDITS):

- Complete the following:

PHIL A401	Aesthetics	3
	Upper-division General Electives	18
- A total of 120 credits are 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.

ADMISSION REQUIREMENTS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, "Academic Standards and Regulations." Admission into the BFA program, termination from it, and granting of the degree are done at the discretion of the BFA Committee.

Applicants for admission into the BFA program must meet the following requirements:

- Applicants must have been officially admitted into the College of Arts and Sciences.
- Applicants must have completed all lower-division art requirements for the BFA degree.
- Applicants must have been enrolled at the University of Alaska Anchorage for at least one semester.
- Applicants must meet minimum academic GPA requirements of:

2.50 overall course work
3.00 overall art course work

The following materials must be submitted to the Department of Art at least two weeks prior to the application interview with the BFA Committee:

- Application for admission into the BFA Program.
- Letter of intent stating objectives and qualifications. Student should indicate an awareness of the differences between the BA in Art and the BFA degree programs.
- Copies of all college transcripts.
- A list of all college art courses taken with grade received.

Applicants seeking admission into the BFA program will present their portfolio at a regularly scheduled BFA Committee meeting. Acceptance into the BFA program will be determined by the BFA Committee members present at the meeting. Applicants should check with the Department of Art main office for meeting times and places. Meetings are generally held once a semester. Applicants may submit works for consideration in both slide form and as original works of art.

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 course work.

SEMESTER REVIEWS

The progress of all BFA candidates will be reviewed a minimum of once a semester by the BFA committee.

THESIS PROJECT

Upon completion of all studio courses in the student's primary and secondary areas of emphasis, BFA Candidates will enroll in ART A499 Thesis and complete a body of work which will culminate in a formal exhibition or presentation. BFA students enrolled in ART A499 Thesis will meet with the BFA Committee a minimum of twice a semester in addition to the final thesis evaluation.

Note: Students must have a thesis proposal accepted by the BFA Committee during the semester prior to enrollment in Art A499 Thesis. Thesis Proposal Reviews are generally scheduled once a semester. Check with Department of Art main office for meeting time and place.

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 of the student's thesis will be furnished to the Department of Art. These slides must be acceptable to the BFA Committee, and will become the property of the Department of Art. Slides must be received by the department before a grade for Art A499 Thesis is awarded.

EXHIBITIONS AND PRESENTATIONS

While BFA Candidates will generally participate in the BFA Show to be held in the Kimura Gallery, some students may elect to prepare a formal presentation of their thesis projects instead. Whatever the format, all aspects of the thesis exhibition or presentation must be approved by the BFA Committee. Exhibited and presented works will be selected by the BFA Committee.

The BFA Show may be held more than once a year as determined by available space and number of graduating BFA students. 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. After successfully 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 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

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 course work is required to graduate. A maximum of 84 credits in Art may be applied toward the degree. 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.

LOWER-DIVISION ART (27 CREDITS):

1. Complete the following core courses (18 credits):

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 World Art I	3
ART A262	History of World Art II	3
2. Choose one two-dimensional course, one three-dimensional course, and one course from either list to total 9 credits. 9

Two-Dimensional Area:

ART A112	Color Design (3)
ART A213	Beginning Painting (3)
ART A215	Beginning Printmaking (3)
ART/JPC A224	Beginning Photography (3)
ART A252	Beginning Graphic Design and Illustration (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)
ART A209	Beginning Metalsmithing and Jewelry(3)
ART A211	Beginning Sculpture (3)
ART A272	Beginning Fiber Structures (3)
ID A141	Interior Design (3)

UPPER-DIVISION ART (42 CREDITS):

3. Complete a total of 21 upper-division credits in a primary area of studio emphasis from the list below, with a minimum GPA of 3.50. 21
4. Complete a total of 9 upper-division credits in a secondary area of studio emphasis from the list below: 9

Painting	Ceramics
Photography	Sculpture
Jewelry/Metalsmithing	Fibers*
Drawing	Graphic Design
Printmaking	Illustration

*Note: All courses in Fibers are currently taught at the Matanuska-Susitna College and Kenai Peninsula College campuses

5. Complete 9 credits in upper-division Art History 9
6. Complete 15 credits in Studio Art courses, any 100-level or above 15
7. Prepare and present a Thesis Project (ART A499) 3
8. Complete PHIL A401 Aesthetics (3) 3
9. A total of 121 credits is required for the degree, of which 42 credits must be upper-division.

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 of which must be upper-division. ART/ED A418 and A442 are not applicable to the Art Minor.

Art History (ART A261 or A262)	3
Design (ART A111 or A113)	3
Drawing (ART A105, A205, A305, A307, A356, A405)	3
Studio Emphasis Courses	6
Art History or Studio Emphasis Course	3

FACULTY

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Deborah Tharp, Associate Professor, AFDKT@uaa.alaska.edu
Kat Tomka, Associate Professor, AFKAT@uaa.alaska.edu

BIOLOGICAL SCIENCES

<http://biology.uaa.alaska.edu>

The WWAMI/Biomedical program may be found at <http://biomed.uaa.alaska.edu>
 Engineering Building (ENGR), Room 333, (907) 786-4770

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 program in the Biological Sciences 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 advisors 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.

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 A124	Biota of Alaska: Selected Topics
BIOL A126	Birds in Field and Laboratory
BIOL A150	Introduction to Marine Biology

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.

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 (28 credits):

BIOL A115	Fundamentals of Biology I	4
BIOL A116	Fundamentals of Biology II	4
BIOL A242	Fundamentals of Cell Biology	4
BIOL A252	Principles of Genetics	4
BIOL A310	Animal Physiology	3
BIOL A492	Undergraduate Seminar	1
CHEM A105/L	General Chemistry I	4
CHEM A106/L	General Chemistry II	4

2. It is recommended that students complete 8 credits from the following:

GEOL A111	Physical Geology (4)	
GEOL A112	Historical Geology (4)	
	or	
PHYS A123/L	Basic Physics I (4)	
PHYS A124/L	Basic Physics II (4)	
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 course work 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, evolutionary biology. A wide selection of electives is available to all students. It is imperative that students consult their advisors 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.

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. Some major requirements may also be used to satisfy the College of Arts and Sciences BS requirements.
 2. Complete these required support courses (38-39 credits):

AS A253	Applied Statistics for the Sciences (4)	3-4
	or	
AS A307	Probability and Statistics (3)	
AS A308	Intermediate Statistics*	3
CHEM A105/L	General Chemistry I	4
CHEM A106/L	General Chemistry II	4

CHEM A321	Organic Chemistry I	4
CHEM A322	Organic Chemistry II	4
MATH A200	Calculus I	4
MATH A201	Calculus II	4
PHYS A123/L	Basic Physics I (4)	8
	and	
PHYS A124/L	Basic Physics II (4)	
	or	
PHYS A211/L	General Physics I (4)	
	and	
PHYS A212/L	General Physics II (4)	

**It is recommended that AS A308 be taken. Students may substitute AS A308 with 3 upper-division biology credits.*

3. Complete biology core courses (32 credits):

BIOL A115	Fundamentals of Biology I	4
BIOL A116	Fundamentals of Biology II	4
BIOL A242	Fundamentals of Cell Biology	4
BIOL A252	Principles of Genetics	4
BIOL A271	Principles of Ecology	4
BIOL A308	Principles of Evolution	3
BIOL A310	Principals of Physiology	3
BIOL A340	General Microbiology	5
BIOL A492	Undergraduate Seminar	1
4. Complete 11-12 credits of upper-division program electives from the following list:

Note: Preprofessional students may substitute CHEM A441-A442

Principles of Biochemistry and A443 Biochemistry Laboratory for 8 upper-division biology credits.

- a. Recommended electives in Cellular and Molecular Biology:

Cellular-Molecular

BIOL A352	Human Genetics (3)
BIOL A461	Molecular Biology (3)
BIOL/CHEM A471	Immunochimistry (4)
BIOL A488	Developmental Biology (4)

Zoology

BIOL A327	Parasitology (4)
BIOL A487	Comparative Anatomy of Vertebrates (4)

Techniques

BIOL A403	Microtechnique (4)
BIOL A495	Instructional Practicum: Laboratory (1)

- 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 A439	Plant Ecology Field Course (3)

Zoology

BIOL A327	Parasitology (4)
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 A441	Animal Behavior (4)
BIOL A475	Arctic Tundra Ecosystems (3)
BIOL A476	Boreal Ecosystems (3)

Techniques

- | | |
|-----------|---|
| BIOL A403 | Microtechnique (4) |
| BIOL A495 | Instructional Practicum: Laboratory (1) |
- c. Special topics, independent study and individual research (credits arranged):
- | | |
|-----------|------------------------------|
| BIOL A497 | Independent Study in Biology |
| BIOL A498 | Individual Research |
5. 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	Fundamentals of Biology I	4
BIOL A116	Fundamentals of Biology II	4
BIOL A242	Fundamentals of Cell Biology	4
BIOL A252	Principles of Genetics	4

Upper-division Biology electives 12

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CANADIAN STUDIES

<http://cdnst.uaa.alaska.edu/canada.html>

Social Sciences Building (SSB), Room 325, (907) 786-1765

In the Fall of 1987, UAA embarked upon a modest Canadian Studies Program designed to fit into the UAA mission with its focus on the Pacific Rim and Circumpolar regions.

The foundation for the UAA Canadian Studies Program is a two-semester, multidisciplinary, 6 credit course sequence on Canada. The first semester provides a basic overview of Canadian geography, anthropology, history, sociology, economics and politics. During the second semester, students are introduced to significant contemporary Canadian issues from a variety of perspectives. These have included the status of aboriginal peoples in Canada; Quebec and the Canadian constitutional crisis; Canadian health, sports and physical fitness, and NAFTA and US/Canadian economic relations. A two-semester Canadian history sequence is regularly offered as are other Canadian selected topics. Selected topics courses have included Canadian Energy and Resource Development; Quebec; the Canadian Political System; the Canada-US Free Trade System; Canadian Social History; and Strategies for Environmental and Cultural Self-Determination. Canadian components are also regularly included in courses offered by such disciplines as Anthropology, Biology, English, Economics, History, and Political Science.

A minor in Canadian Studies is available at UAA. The purpose of the minor is to offer students who have an interest in Canada the opportunity to combine a broad introduction to Canada with more detailed study of certain aspects of Canadian society. Students wishing to complete a minor in Canadian Studies must obtain prior approval for their program of study from the Director of Canadian Studies, CAS Building, Room 362, (907)786-4856.

MINOR, CANADIAN STUDIES

Students majoring in another subject who wish to minor in Canadian Studies must complete the following requirements. A total of 18 credits is required for the minor.

- Complete the following required courses (9 credits):

INTL A301	Canada: Introductory Survey	3
INTL A302	Canada: Contemporary Issues	3
INTL A303	Canada: Selected Topics	3
 - Complete 9 credits of approved electives 9
- The courses listed below are potentially applicable to the Canadian Studies Minor. Students will also be permitted to count special topics courses and independent study courses that focus specifically on Canada, and may repeat INTL A302, A303, and A304 for credit with a change of subtitle.

Note: To ensure adequate Canadian content when taking elective courses for the minor, the student must demonstrate that research and papers prepared for these courses focus on Canada.

ANTH A416	Arctic Archaeology (3)
ANTH A426	Arctic Ethnology (3)
ANTH A335	Native North Americans (3)
ANTH A371	Selected Topics in Anthropology (1-3)
ANTH A435	Northwest Coast Cultures (3)
ART A365	Native Art of Alaska (3)
BIOL A475	Arctic Tundra Ecosystems (3)
ECON A415	Urban and Regional Economics (3)
ECON A435	Economics of Resources (3)
ECON A463	International Economics (3)

ENGL A383	Film Interpretation (3)
ENGL A440	Topics in 20th Century Comparative Literature (3)
FREN A432	Studies of Literature and Culture (3)
GEOG A207B	Edge of Fire: A Physical Geography of the American West (3)
HIST A341	History of Alaska (3)
HIST A431	Colonies and Revolution (3)
HIST A434	Early National Period: 1800-1850 (3)
INTL A303	Canada: Selected Topics (3)
INTL A304	Canada: Field Study Tour (1)
INTL/HIST A374	History of Canada to 1867 (3)
JUST A365	Comparative Justice Systems (3)
PS A312	Comparative Politics: Case Studies (3)
PS A321	International Relations (3)
PS/AKNS A411	Tribes, Nations and Peoples (3)
PS A424	International Law and Organization (3)
PS A490	Studies in Politics (1-3)

FACULTY

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Dorn Van Dommelen, Associate Prof/Director, AFDV@uaa.alaska.edu

CHEMISTRY

<http://chem.uaa.alaska.edu>

Engineering Building (ENGR), Room 333D, (907) 786-1238

Chemistry is the science concerned with substances 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 degree 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 course work which a freshman student must have mastered for admission to the Chemistry program without a deficiency includes:

English

4 years

Mathematics

Algebra	2 years
(This must have included at least complex numbers, logarithms, quadratic functions, inequalities and absolute values, plus conic sections).	
Geometry	1 year
Trigonometry	1/2 year

Natural Sciences

Physics	1 year
(This must cover mechanics, thermodynamics, electricity and magnetism, and optics).	
Chemistry	1 year
(This must cover elementary laboratory procedures, introduction to atoms and molecules, chemical reactions, equilibrium, and an introduction to chemical calculations).	

It is strongly recommended that students graduating from high school without the preparation indicated above enroll in available non-science courses during the summer session to make up deficiencies so that they can begin the fall semester with the correct sequence of the freshman Chemistry curriculum. If this is not done, it will be necessary to carry heavier course loads or take more than eight semesters to complete the degree. Students are reminded that it is imperative for them to regularly (at least once per semester) consult a departmental advisor to evaluate their progress through the program of study.

HONORS IN CHEMISTRY

The department of Chemistry awards Departmental Honors in Chemistry to undergraduate students who show exceptional performance in all their course work. To graduate with Honors students must:

1. Satisfy all requirements for a Bachelor of Science degree in Chemistry.
2. Meet the requirements for "Graduation with Honors" as listed in Chapter 7 of this catalog.
3. Maintain a minimum GPA of 3.50 in chemistry classes.
4. Complete with distinction a written assignment in the style of a chemical journal based on the research performed in CHEM A498.
5. Notify the Departmental Honors Committee in writing at the time they file their Application for Graduation with the Enrollment Services Office that they intend to graduate with Departmental Honors.

BACHELOR OF SCIENCE, CHEMISTRY 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 Chemistry, all courses covered under "Major Requirements" for a BS in Chemistry must be completed with a grade of "C" or better.

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

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.

- Students working toward a degree in Chemistry can choose one of two options:

Chemistry Option

Complete the following required courses (82 - 83 credits):

BIOL A115	Fundamentals of Biology I	4
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
CHEM A253	Principles of Inorganic Chemistry	3
CHEM A212	Quantitative Analysis	5
CHEM A321	Organic Chemistry I	3
CHEM A322	Organic Chemistry II	3
CHEM A323L	Organic Chemistry Lab	2
CHEM A331	Physical Chemistry I	3
CHEM A332	Physical Chemistry II	5
CHEM A434	Instrumental Methods	4
CHEM A441	Principles of Biochemistry I	3
CHEM A453	Advanced Inorganic Chemistry	5
CHEM A492	Undergraduate Seminar (1)	2
CHEM A498	Individual Research (3)	6
MATH A200	Calculus I	4
MATH A201	Calculus II	4
MATH A202	Calculus III	4
MATH A302	Ordinary Differential Equations	3
PHYS A211/L	General Physics I	4
PHYS A212/L	General Physics II	4

Upper-division elective (choose one of the following) 3 - 4

BIOL A310	Principles of Physiology (3)
BIOL A415	Comparative Animal Physiology (4)
BIOL A461	Molecular Biology (3)
BIOL A468	Biogeochemistry (3)
CHEM A442	Principles of Biochemistry II (3)
CHEM A456	Non-linear Dynamics and Chaos (3)
CHEM A471	Immunochemistry (4)
GEOL A313	Mineralogy (4)
GEOL A360	Geochemistry (3)
GEOL A460	Environmental Geochemistry (3)
MATH A310	Numerical Methods (3)
MATH A314	Linear Algebra (3)
MATH A422	Partial Differential Equations (3)
PHYS A303	Modern Physics (3)
PHYS A320	Simulation of Physical Systems (3)

Biochemistry Option

Complete the following required courses (86-87 credits):

BIOL A115	Fundamentals of Biology I	4
BIOL A116	Fundamentals of Biology II	4
BIOL A242	Fundamentals of Cell Biology	4
BIOL A252	Principles of Genetics	4

Upper-division Biology (choose one of the following)		3 - 4
BIOL A310	Principles of Physiology (3)	
	or	
BIOL A415	Comparative Animal Physiology (4)	
	or	
BIOL A461	Molecular Biology (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
CHEM A253	Principles of Inorganic Chemistry	3
CHEM A212	Quantitative Analysis	5
CHEM A321	Organic Chemistry I	3
CHEM A322	Organic Chemistry II	3
CHEM A323L	Organic Chemistry Lab	2
CHEM A311	Physical Chemistry: A Biological Orientation	3
CHEM A434	Instrumental Methods	4
CHEM A441	Principles of Biochemistry I	3
CHEM A442	Principles of Biochemistry II	3
CHEM A443	Biochemistry Laboratory	2
CHEM A492	Undergraduate Seminar (1)	2
CHEM A498	Individual Research(3)	6
MATH A200	Calculus I	4
MATH A201	Calculus II	4
MATH A202	Calculus III	4
PHYS A211/L	General Physics I	4
PHYS A212/L	General Physics II	4

- A total of 120-126 credits is required for the degree, of which 42 credits must be upper division.

MINOR, CHEMISTRY

Students majoring in another subject who wish to minor in Chemistry must complete the following requirements. A total of 24 credits is required for the minor.

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
CHEM A212	Quantitative Analysis	5
CHEM A321	Organic Chemistry I	3
CHEM A322	Organic Chemistry II	3
CHEM A323L	Organic Chemistry Lab	2
CHEM A311	Physical Chemistry: A Biological Orientation (3)	3
	or	
CHEM A331	Physical Chemistry I (3)	

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COMMUNICATION

<http://comm.uaa.alaska.edu>

Administration/Humanities Building (ADM), Room 262, (907) 786-4390

The study of communication provides students with an understanding of how individuals create and interpret verbal and nonverbal messages in a variety of contexts. The minor is a broad introduction to human communication, including communication theory and practical experience in the areas of intercultural, interpersonal, organizational, small group, and public communication.

MINOR, COMMUNICATION

Students majoring in another subject who wish to minor in Communication must complete the following requirements. A total of 18 credits are 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)

Note: Selected Topics classes may be repeated once with change in subtitle.

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COMPUTER SCIENCE

www.math.uaa.alaska.edu

Social Sciences Building (SSB), Room 154, (907) 786-1742/4824

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 who 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 Accreditation Board for Engineering and Technology'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 organizations, software 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.

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	3
CS A203	Data Structures and Algorithms	3
CS A221	Computer Organization and Assembly Programming	3
CS A303	Object-Oriented Analysis, Design, and Programming	3
CS A320	Operating Systems	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) | 3 |
2. Complete these required support courses (12-14 credits):

AS A253	Applied Statistics for the Sciences (4)	3-4
	or	
AS A307	Probability and Statistics (3)	
ENGL A312	Advanced Technical Writing (3)	3
	or	
ENGL A414	Research Writing (3)	
MATH A200	Calculus I (4)	3-4
	or	
MATH A272	Calculus for Managerial Sciences(3)	
MATH A231	Introduction to Discrete Mathematics	3
 3. Complete an additional 15 upper-division credits in Computer Science, Mathematics (excluding MATH A420 and MATH A495), or Applied Statistics. Nine (9) of these credits must be in Computer Science. A maximum of three (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 AS courses required to satisfy the above program requirements.
 5. Students are encouraged to develop their program with a Computer Science advisor.
 6. 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 A203	Data Structures and Algorithms	3
CS A221	Computer Organization and Assembly Programming	3
CS A303	Object Oriented Analysis, Design and Programming	3
CS A320	Operating Systems	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) | |
| EE A241 | Computer Hardware Concepts | 4 |
2. Complete the following required support courses (25 credits):

AS A307	Probability and Statistics	3
ENGL A312	Advanced Technical Writing (3)	3
	or	
ENGL A414	Research Writing (3)	
MATH A200	Calculus I	4
MATH A201	Calculus II	4
MATH A231	Introduction to Discrete Mathematics	3
PHYS A123/L	Basic Physics I (4)	4
	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 Applied Statistics. Nine (9) of these credits must be in Computer Science. A maximum of three (3) credit of CS A395 may be applied to degree requirements.
 4. A grade of "C" or higher must be received in all MATH, CS, and AS courses required to satisfy the above program requirements
 5. Students are encouraged to develop their program with a Computer Science advisor.
 6. A total of 120 credits are 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	3
CS A203	Data Structures and Algorithms	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. 9
3. A total of 24 credits is required for the minor.

FACULTY

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CREATIVE WRITING AND LITERARY ARTS

aycwla@uaa.alaska.edu

<http://cwla.uaa.alaska.edu>

Social Sciences Building (SSB), Room 352, (907) 786-4330

MINOR, CREATIVE WRITING AND LITERARY ARTS

Students majoring in another subject who wish to minor in Creative Writing and Literary Arts must complete the following requirements:

- Complete 12 credits from the following list of undergraduate writing workshops and magazine production course offerings. Note that at least 6 credits must be upper division: 12

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)
CWLA A382	Undergraduate Writer's Workshop: Drama for Stage and Screen (3)
- Complete 6 credits from the following: 6

CWLA A461	Writing and Gender (3)
CWLA A490	The Writer's Craft (3)
- A total of 18 credits is required for the minor.

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 3.5 in the minor.

- 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: 9

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)
CWLA A382	Undergraduate Writer's Workshop: Drama for Stage and Screen (3)
- Complete 6 credits from the following: 6

CWLA A461	Writing and Gender (3)
CWLA A490	The Writer's Craft (3)
- Complete the following required project: 3

CWLA A499	Thesis (3)
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- A total of 18 credits is required for the minor.

FACULTY

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ENGLISH

<http://english.uaa.alaska.edu/>

Professional Studies Building (PSB), Room 212, (907) 786-4355

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 two options: literature or rhetoric and language. 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. Both options prepare majors to conduct research in the discipline and to write for a variety of purposes and audiences. In addition, both options offer the opportunity to earn honors in English.

The minor in English 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.

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 and noting the award on their permanent university transcript. 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 or rhetoric option), and meet the following requirements:

- Meet the requirements for "Graduation with Honors" as listed in Chapter 7 of this catalog.
- Maintain a grade-point average of 3.5 in all courses in the English major.
- 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 Twentieth-Century 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)
- Complete ENGL A499, English Honors Thesis, with a grade of A in the judgement 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 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

Students working toward a degree in English may choose from two options: Literature or Rhetoric and Language .

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 A424	Shakespeare	3
ENGL A435	History of Criticism	3

2. Complete one of the following options:

Literature 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	Topics in National Literatures (3)
ENGL A306	Literature of the United States I (3)
ENGL A307	Literature of the United States II (3)

Complete 3 credits from each Period: 9

Early

ENGL A310	Ancient Literature (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	Contemporary Literature (3)
ENGL A440	Topics in 20th Century Comparative Literature (3)

Complete 3 credits from Genre: 3

ENGL A361	The Novel (3)
ENGL A363	The Short Story (3)
ENGL A371	Prose Nonfiction (3)
ENGL A381	Drama (3)
ENGL A383	Film Interpretation (3)
ENGL A391	Genres of Subject and Theme (3)

Complete 3 credits from Specialized Studies: 3

ENGL A403	Topics in Autobiography (3)
ENGL A404	Topics in Women's Literature (3)
ENGL A429	Major Authors (3)
ENGL A444	Topics in Native Literatures (3)
ENGL A445	Alaska Native Literatures (3)

Complete upper-division English electives 6

Rhetoric and Language Option (24-25 credits):

Complete 6 credits from Nature of Language: 6

LING A101	The Nature of Language (3)
LING A201	Intermediate Grammar (3)

Complete 6 credits from Advanced Composition: 6

ENGL A311	Advanced Composition (3)
ENGL A312	Advanced Technical Writing (3)
ENGL A313	Professional Writing and Editing (1-3)
ENGL A414	Research Writing (3)

Complete the following: 3

ENGL A434	History of Rhetoric (3)
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Complete 3-4 credits from Applied Linguistics: 3-4

ENGL A450	Linguistics and Language Teaching (4)
ENGL A452	English Grammar and Language Teaching (4)

ENGL A487	Standard Written English (3)
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Complete 3 credits from Rhetoric and Language Theory: 3

ENGL A475	Modern Grammar (3)
ENGL A476	History of English Language (3)
ENGL A491	Topics in Composition and Rhetoric (3)

Complete 3 credits upper-division elective: 3

ENGL A495	Internship in Professional Writing (1-3) (Recommended)
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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 Professional Writing or an emphasis in Literature. A total of 18 credits is required for the minor.

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 English elective	3

PROFESSIONAL WRITING EMPHASIS

One of the following: 3

ENGL A212	Technical Writing (3)
ENGL A213	Writing in the Social and Natural Sciences (3)
ENGL A214	Persuasive Writing (3)

Two of the following: 6

ENGL A311	Advanced Composition (3)
ENGL A312	Advanced Technical Writing (3)
ENGL A313	Professional Writing and Editing (3)

One of the following: 3

ENGL A414	Research Writing (3)
ENGL A495	Internship in Professional Writing (1-3)

And both of the following:

ENGL A434	History of Rhetoric	3
	Upper-division elective approved by the English Department	3

FACULTY

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ENVIRONMENTAL STUDIES

<http://envi.uaa.alaska.edu/>
 ENVISTUDIES@uaa.alaska.edu

Institute of Social and Economic Research, Diplomacy Building (DPL), Room 504H,
 (907) 786-1753

Which is better: paper or plastic? How wet is a wetland? What are xenoestrogens 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 ENVI A201-A202 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 18 credits are required for the minor.

- Complete the following required core courses (12 credits):

ENVI A201	Living on Earth: Introduction to Environmental Studies	3
ENVI A202	Earth as an Ecosystem: Introduction to Environmental Science	3
BIOL A373	Environmental Biology	3
ENVI A492	Proseminar in Environmental Studies	3

- Complete at least 3 credits of approved electives related to environmental science and engineering. The following courses are automatically approved. Other courses may be approved on a one-time basis by the designated Director of Environmental Studies if a student demonstrates sufficient environmental studies content.

3

BIOL A309	Biogeography (3)
BIOL A331	Systematic Botany (4)
BIOL A475	Arctic Tundra Ecosystems (3)
BIOL A476	Boreal Ecosystems (3)
BIOL A485	Selected Topics in Biology (1-4)
CE A344	Water Resources Engineering (3)
CE A441	Sanitary Engineering (3)
CHEM A450	Environmental Chemistry (3)
GIS A370	GIS and Remote for Natural Resources (3)
GEOG A205	Elements of Physical Geography (3)
GEOL A115	Environmental Geology (3)
GEOL A304	Geomorphology (4)

NOTE: BIOL A485 is conditional on appropriate environmental content as determined by designated Director of Environmental Studies: determination to be made when course content is announced.

- Complete at least 3 credits of approved electives related to environmental policy, values, and history. The following courses are automatically approved. Other courses may be approved on a one-time basis by the designated Director of Environmental Studies if a student demonstrates sufficient environmental studies content.

AKNS A201	Native Perspectives (3)
ANTH A354	Culture and Ecology (3)
ANTH A432	Hunting and Gathering Societies (3)
ECON/ENVI A210	Environmental Economics and Policy (3)
ECON A435	Economics of Resources (3)
ENVI/PHIL A303	Environmental Ethics (3)
GEOG A101	Introduction to Geography (3)
GEOG A343	Historical Geography (3)
HIST A440	The American West Since 1850 (3)
JUST A491	Natural Resources Law (3)
SOC A404	Environmental Sociology (3)

FACULTY

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GEOLOGY

<http://geology.uaa.alaska.edu>

Beatrice McDonald Hall (BMH), Room 212, (907) 786-6840

Geology is the science that pursues an understanding of planet Earth. The geological sciences program incorporates 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, and glacial geology, 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 that will 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 focus on combining classroom education with field work and laboratory experiments, and strive to involve students in all aspects of the science. The Geological Sciences faculty is highly motivated to transmit both their knowledge and passion for the geological sciences. Students who enjoy working outdoors, have a strong scientific background, and are interested in earth processes will find the geological sciences an intriguing and rewarding area of study.

A program of study in the geological sciences requires completion of a basic science curriculum in the chemical, physical, and mathematical sciences in addition to core courses and elective courses in the geological sciences. The undergraduate degree in geology offers students with a choice of focus in either general geology or environmental geology. The general geology track includes core geology courses with a range of upper division courses as electives. The environmental geology track requires the core geology courses as well as specific upper division electives that focus on environmental topics such as environmental geochemistry, hydrogeology, and soils. Students are strongly encouraged to consult with faculty in the geologic sciences to choose an appropriate direction of study that suits their goals.

The Bachelor of Science degree program in Geological Sciences requires a minimum of 120 credits for graduation and 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;

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 one of the areas of emphasis;
4. experience in field geology in Alaska;
5. an ability to communicate effectively;
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 and noting the award on their permanent university transcript. 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.
2. Maintain a cumulative GPA of 3.50.
3. Complete 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 Enrollment Services Office.

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 B.S. 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 geology 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 adviser 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):

CHEM A105	General Chemistry I	4
CHEM A106	General Chemistry II	4
PHYS A123	Basic Physics I	4
PHYS A124	Basic Physics II	4
MATH A200	Calculus I	4
AS A253	Applied Statistics for the Sciences (4)	3-4
	or	
AS A307	Probability and Statistics(3)	

Note: Math A201 Calculus II is highly recommended for majors in the geological sciences.

3. Complete Geological Sciences core curriculum courses (40 credits):

GEOL A111	Physical Geology	4
GEOL A221	Historical Geology	4
GEOL A321	Mineralogy	4
GEOL A322	Igneous and Metamorphic Petrology	4
GEOL A330	Structural Geology	4
GEOL A350	Geomorphology	4
GEOL A360	Geochemistry	3
GEOL A410	Research and Writing Techniques	3
GEOL A452	Sedimentology and Stratigraphy	4
GEOL A480	Geologic Field Methods(3)	
	and	
GEOL A481	Alaska Field Investigations(3)	
	or	
	Geology Field Camp* (6)	

**Geology Field Camps are offered through other accredited academic institutions and must be approved by your academic adviser in geological sciences. Credits must be transferable to UAA from the academic institution that is offering the course.*

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.

General Geological Sciences Track

Complete 13-14 credits from the following: 13-14

GEOL A320	Volcanology (3)
GEOL A325	Geology of Ore Deposits (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 and Periglacial Geomorphology (4)
GEOL A456	Geochronology (3)
GEOL A470	Paleoecology of Beringia (4)
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 A481 may be applied towards recommended electives if they are not being applied to satisfy the core curriculum credits.*

Environmental Geological Sciences Track

- a. Complete the following required courses (10 credits):

GEOL A340	Hydrogeology	3
GEOL A457	Soil Genesis and Classification	4
GEOL A460	Environmental Geochemistry	3
- b. Complete 3-4 elective credits from the following: 3-4

GEOL A380	Anchorage Field Studies (3)	
GEOL A381	Kenai Peninsula Field Studies (3)	
GEOL A382	Geologic Field Studies (3)	
GEOL A454	Glacial and Quaternary Geology (3)	
GEOL A455	Permafrost and Periglacial Geomorphology (4)	
GEOL A 475*	Environmental Geophysics (3)	
GEOL A480**	Geologic Field Methods (3)	
GEOL A481**	Alaska 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 A475 and A495 are highly recommended electives for students pursuing an emphasis in environmental geological sciences.*

*** GEOL A480 and A481 may be applied towards recommended electives if they are not being applied to satisfy the core curriculum credits.*

5. A minimum of 120 credits is required for the degree, of which 42 must be upper-division credits.

MINOR, GEOLOGY

Students majoring in another subject who wish to minor in Geology must complete the following requirements. Completion of 18-20 credits is required for the minor, 8 of which must be upper-division.

GEOL A111	Physical Geology	4
GEOL A112	Historical Geology	4
	Upper-division Geology electives	8
	Other Geology electives	2-4

FACULTY

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GERONTOLOGY

Social Sciences Building (SSB), Room 372, (907) 786-1714

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 background necessary for working towards a minor.

Courses for the minor can be taken concurrently with courses in student's major or may be taken after major courses are completed. Upon completion of the minor, the student will receive a minor in gerontology from UAA in addition to the bachelor's degree. Administratively, the Gerontology Minor is housed in the Sociology Department at UAA.

MINOR, GERONTOLOGY PROGRAM REQUIREMENTS

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 are required for the minor.

1. Complete required Minor Core Courses (9 credits):

SOC A110	Introduction to Gerontology: A Multidisciplinary Approach	3
SOC A310	Sociology of Aging	3
PSY A450	Adult Development and Aging	3
2. Complete nine additional credits from the list below. Six of the credits must be upper-division courses. Up to six credits may be from approved practicum courses related to gerontology.

AKNS A492	Cultural Knowledge of Native Elders (3)	
DN A245	Nutrition for the Second 50 years (3)	
HUMS A416	Substance Abuse and the Older Adult (3)	
NS A434	Health Care of the Elderly (3)	
PE A442	Exercise and Aging (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 Practicums related to Gerontology (3-6)**

* Selected Or Special Topics Courses related to aging will be periodically offered by various departments. These courses are typically listed under A490. Topics must be reviewed and approved by the gerontology committee.

Examples of existing A490 courses include:

ANTH	Cross Cultural Perspectives on Aging
PSY	Women and Aging
SWK	Promoting Successful Aging

** Practicums related to gerontological issues may also be used to meet minor program requirements. Practicums are individualized and represent an applied or practical side of the minor and are offered by various departments. Practicums must be approved by the gerontology committee. A maximum of 6 credits may be from practicum courses.

HISTORY

<http://history.uaa.alaska.edu>

Social Sciences Building (SSB), Room 330, (907) 786-1535

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.

BACHELOR OF ARTS, HISTORY 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
 1. Complete the following courses (36 credits):

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 A477	Senior Seminar	3
	Upper-division History electives*	15
	History electives, any level	6
 2. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

*Note: only three credits of HIST A444 may be applied to a major in History.

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) and	6
HIST A102	Western Civilization II (3) or	
HIST A131	History of United States I (3) and	
HIST A132	History of United States II (3)	
	Upper-division History electives*	9
	History elective, any level	3

*Note: only three credits of HIST A444 may be applied to a minor in History.

FACULTY

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 Bill Myers, Visiting Assistant Professor, AFWLM@uaa.alaska.edu
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INTERNATIONAL NORTH PACIFIC STUDIES

Social Sciences Building (SSB), Room 359, 786-4856

In light of rapid globalization, international understanding and competency have become essential to Alaska's destiny and the well-being of its people. Such competency embraces a broad knowledge of the international context within which residents of the North Pacific region live and work.

The interdisciplinary minor in International North Pacific Studies is designed to deliver knowledge that will serve as a foundation for an international approach to social cultural, political, economic and environmental issues in the North Pacific region. Three interdisciplinary courses, each designed to be team-taught by faculty from a variety of disciplines, serve as the core of the program. Focusing on international studies of the North Pacific region from Hong Kong to Vancouver, these courses on the North East Asian Pacific (China, the Koreans, Japan), the Russian Far East, and the Canadian Far West, address the geography, peoples, history, culture, politics and economics of the North Pacific. Combined with the study of one of the targeted North Pacific languages, and a seminar designed to integrate program elements, the minor will serve the needs of UAA students who intend to make their careers in the North Pacific arena, be it in trade, communications, education, the arts or public service.

MINOR, INTERNATIONAL NORTH PACIFIC STUDIES

Students majoring in another subject who wish to minor in International North Pacific Studies must complete the following requirements:

- Complete the following required core courses (9 credits):

INTL A305	Canadian Far West	3
INTL A335	The North East Asia-Pacific Region	3
INTL A355	Russian Far East	3
- Complete 8 credits of approved courses in Chinese, Japanese, Korean or Russian 8
- Complete the North Pacific Studies seminar

INTL A492	North Pacific Studies Seminar	3
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- A total of 20 credits is required for the minor.

Courses for the International North Pacific Studies minor are offered over a two-year repeating cycle. It will take two years of study to complete the minor.

JOURNALISM AND PUBLIC COMMUNICATIONS

<http://jpc.uaa.alaska.edu>

Professional Studies Building (PSB), Room 203, (907) 786-4180

The Department of Journalism and Public Communications offers an undergraduate program leading to the Bachelor of Arts. All majors are required to take a set of core courses and to select one of six options. These options include journalism, public relations and advertising, telecommunication and film, photography, and general communication. Students with special needs may be allowed to take courses from more than one option. The Bachelor of Arts is accredited by the Accrediting Council on Education in Journalism and Mass Communication.

The program is designed to provide students with basic knowledge about gathering and presenting information through the various mass media. These courses also examine the place of media in society, and provide opportunities to examine social, ethical, and legal issues related to communications.

Broad scholarship is emphasized. Study is required in as many other fields as possible, such as anthropology, economics, history, language, philosophy, political science, psychology, sociology, and the sciences. This broad background is essential in preparation for careers in fields which demand a broad range of knowledge of their practitioners. Students selecting the public relations/advertising option are encouraged to take courses in marketing and business administration as part of their elective credits outside the major and the liberal arts requirements.

BACHELOR OF ARTS, JOURNALISM AND PUBLIC COMMUNICATIONS

ADMISSION REQUIREMENTS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, "Academic Standards and Regulations."

ACADEMIC PROGRESS

A grade of "C" or better is needed in ENGL A211 or ENGL A212, ENGL A213 and in any JPC course that is a prerequisite before proceeding to the advanced course.

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

- Students must complete 126 credits, of which 90 must be outside the major. (Courses with prefixes other than JPC are considered outside the major). These 90 credits must include 65 credits in liberal arts and sciences courses. Only 36 JPC credits will be accepted toward degree requirements. As long as 90 credits have been completed outside the major, any additional JPC credits, beyond the 36 JPC credit maximum, may be accepted toward other degree requirements. Students should know how to type before enrolling in writing classes. Computers are used in these classes, and students will be asked to write against deadline.

- Complete all six of the following JPC core courses (18 credits):

JPC A101	Introduction to Mass Communication	3
JPC A111	Understanding Aural and Visual Communications	3
JPC A201	Writing for the Media	3
JPC A326	Principles of Advertising	3
JPC/JUST A413	Communications Law	3
JPC A435	Communication Research	3

- Complete one of the following six options:

Journalism - Option I

Complete 18 credits: 18

JPC A212	Editing (REQUIRED) (3)
JPC A215	History of Mass Communication (3)
JPC/ART A224	Beginning Photography (3)
JPC A300	Photojournalism (3)
JPC A301	Advanced Newswriting (3)
JPC A305	Journalistic Interviewing (3)
JPC A309	Radio News (3)
JPC A311	Magazine Writing (3)
JPC A329	Graphics and Publication Design (3)
JPC A340	Web Design (3)
JPC A341	Broadcast Journalism Production (3)
JPC A400	Practicum (1-3)
	or
JPC A450	Internship in Journalism (3)
JPC A401	Magazine Production (3)
JPC A416	Information Age Communication (3)
JPC A440	The Press: Issues and Answers (3)
JPC A490	Selected Topics in Communication (1-3)

Public Relations and Advertising - Option II

Complete 18 credits: 18

JPC A212	Editing (REQUIRED) (3)
JPC A215	History of Mass Communication (3)
JPC/ART A224	Beginning Photography (3)
JPC A305	Journalistic Interviewing (3)
JPC A320	Principles of Public Relations (3)

JPC A328	Advertising Campaign (3)
JPC A329	Graphics and Publication Design (3)
JPC A330	Advanced Public Relations (3)
JPC A340	Web Design (3)
JPC A355	Writing for Public Relations (3)
JPC A364	Advertising Strategy (3)
JPC A365	Advertising Creativity (3)
JPC A400	Practicum (1-3)
	or
JPC A451	Internship in Public Relations
	or Advertising (3)
JPC A401	Magazine Production (3)
JPC A416	Information Age Communication (3)
JPC A440	The Press: Issues and Answers (3)
JPC A490	Selected Topics in Communication (1-3)

Telecommunication and Film Option III

Complete 18 credits: 18

JPC A215	History of Mass Communication (3)
JPC/ART A224	Beginning Photography (3)
JPC A305	Journalistic Interviewing (3)
JPC A309	Radio News (3)
JPC A310	Audio Production (3)
JPC A316	Producing for Film and Television (3)
JPC A340	Web Design (3)
JPC A341	Broadcast Journalism Production (3)
JPC A350	Directing for Film and Television (3)
JPC A400	Practicum (1-3)
	or
JPC A452	Internship in Telecommunications (3)
JPC A416	Information Age Communication (3)
JPC A440	The Press: Issues and Answers (3)
JPC A490	Selected Topics in Communication (1-3)

Graphic Design Option IV

Complete the following 18 credits: 18

ART A105	Beginning Drawing (3)
ART A111	Two-Dimensional Design (3)
ART A112	Color Design (3)
ART A205	Intermediate Drawing (3)
ART A261	History of World Art I (3)
ART A262	History of World Art II (3)

Complete the following 2D/3D courses (6 credits): 6

ART/JPC A224	Beginning Photography (3)
ART A252	Beginning Graphic Design and Illustration (3)

Complete the following Studio Emphasis courses (15 credits):15

ART A352	Intermediate Graphic Design (6)
ART A357	Computer Art and Design (3)
ART A452	Advanced Graphic Design (6)

Complete JPC Recommended Electives (15 credits): 15

JPC A316	Producing for Film and Television (3)
JPC A328	Advertising Campaign (3)
JPC A340	Web Design (3)
JPC A350	Directing for Film and Television (3)
JPC A400	Practicum (1-3)
	or
JPC A450	Internship in Journalism(3)
JPC A401	Magazine Production (3)
JPC A490	Selected Topics in Communications (1-3)
	Any upper division photography course (3)

Photography - Option V

Complete 18 credits:

JPC A215	History of Mass Communication (3)	
JPC/ART A224	Beginning Photography (REQUIRED) (3)	
JPC A300	Photojournalism (3)	
JPC/ART A323	Color Photography (3)	
JPC/ART A324	Intermediate Photography (3)	
JPC/ART A331	Experimental Photography (3)	
JPC A340	Web Design (3)	
JPC/ART A367	History of Photography (3)	
JPC A400	Practicum (1-3)	
	or	
JPC A453	Internship in Photography (3)	
JPC A416	Information Age Communication (3)	
JPC/ART A424	Advanced Photography (3)	
JPC A440	The Press: Issues and Answers (3)	
JPC A490	Selected Topics in Communication (1-3)	

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General Communication - Option VI

Complete 18 credits:

As a sixth option, students may take a cross section of the above courses upon justification to and approval of advisor.

- A total of 126 credits is required for the degree, of which 42 credits must be upper-division.

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MINOR, JOURNALISM AND PUBLIC COMMUNICATIONS

Students majoring in another subject who wish to minor in JPC must complete the following requirements. A total of 18 credits is required for the minor, 6 of which must be upper-division.

JPC A101	Introduction to Mass Communication	3
JPC A111	Understanding Aural and Visual Communications	3
JPC A201	Writing for the Media	3
	Upper-division JPC electives	6
	Lower- or upper-division JPC electives	3

FACULTY

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LANGUAGES

<http://language.uaa.alaska.edu>

Administration/Humanities Building (ADM), Room 287, (907) 786-4030

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 general coursework for beginning and continuing study of a variety of languages.

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 individual interests and educational and career goals.

The Department of Languages offers French, German, Japanese, Russian, and Spanish as emphasis languages, with additional lower-division courses available in Alaska Native Languages, ASL, Chinese, Italian, Korean, and Latin. 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). The NCSA Program offers study in France and Austria; the Department administers its own exchange program with Magadan International University (Russia); and information is available from the International Student Advisor in Enrollment Services for programs in Japan and Spanish-speaking countries.

The Department of Languages encourages students to study abroad in several ways. Students earning at least 9 credits (with a "B" or better) in a single, approved Study Abroad experience may have all transferred credits approved by the Department from such programs used to satisfy major requirements. In addition, such students may request waiver of up to eight credits from the requirements necessary to complete the major under either Option. If completing Option II, such waiver may apply to requirements for either the Emphasis or the second language, as appropriate. See the Department for specific policies regarding transferring credits and satisfying major requirements with study abroad experience.

HONORS IN LANGUAGES

The Department of Languages recognizes exceptional undergraduate students by awarding them Departmental Honors in Languages and noting the award on their permanent university transcript. To graduate with Departmental Honors, students must be declared Languages Majors and meet the following requirements:

- Satisfy all requirements for a BA degree in Languages;
- Maintain an overall UAA GPA of 3.50;
- Receive an honors score (based upon criteria established by the Department) on a comprehensive examination in the language(s) of focus;
- Complete a senior project, in addition to the major requirements, which will be presented in the emphasis language and will be the outcome of a three-credit Independent Study during the student's final semester of study;
- Notify their Departmental Advisor in writing during the semester prior to graduation of intent to graduate with Departmental Honors

BACHELOR OF ARTS, LANGUAGES ADMISSION REQUIREMENTS

- Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, "Academic Standards and Regulations."
- Complete an 8-credit language sequence, A101-102, with a grade of "B" or better, in French, German, Japanese, Russian, or Spanish.

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; taking both is recommended: 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
* Students with an emphasis language in Japanese must complete:
JPN A290 Selected Topics in Japanese Culture 1
- d. Complete 12 credits of 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 electives in or related to the emphasis language or culture, but which must be at the upper division if taught in the emphasis language (see 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 in Alaska Native Languages, American Sign Language, Chinese, Italian, Korean, or Latin. Other secondary languages may be chosen upon written approval of the Department.
- b. Complete one of the following two courses; taking both is recommended:
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
* Students with an emphasis language in Japanese must complete:
JPN A290 Selected Topics in Japanese Culture 1

- d. Complete 9 credits of 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 in the second language.
2. Students must petition to substitute Study Abroad/Immersion experience language courses for certain major requirements and possible waiver of up to 8 credits of major requirements.
3. Students may not earn a major and minor in the same language.
4. The degree program must be approved and signed by the Department of Languages.
5. Students must take at least 6 upper-division credits, in the respective language, in courses numbered higher than 302 in residence. Only one of these credits can be earned through tutoring.
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 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 eight 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), or Department of Languages literature or culture courses. In order to receive credit the student must complete the appropriate form in Enrollment Services and pay an administrative fee.

MINOR, LANGUAGES

Students who wish to minor in languages must complete the following requirements: a total of 19 credits 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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Natasa Masanovic, Term Assist. Prof., German, AFMN@uaa.alaska.edu
Francisco Miranda, Assoc. Professor, Spanish, AFFM1@uaa.alaska.edu
Sudarsan Rangarajan, Assist. Professor, French, AFSR1@uaa.alaska.edu

LIBERAL STUDIES

<http://liberalstudies.uaa.alaska.edu>

Social Sciences Building (SSB), Room 379, (907) 786-1732

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 **bolded** are also included in the Bachelor of Arts in Elementary Education, offered by the College of Education. Students must complete the following program requirements:

1. Communications and Writing Skills

COMM A111*	Fundamentals of Oral Communication	3
ENGL A111*	Methods of Written Communication	3
ENGL A214*	Persuasive Writing	3
2. Liberal Studies Integrated Sciences (LSIS) Core

LSIS A101*	Discoveries in Science	1
LSIS A102*	Origins: Earth-Solar System-Life	5
LSIS A201*	Life on Earth	5
LSIS A202*	Concepts and Processes: Natural Sciences	5

3. Mathematical Skills

MATH A107 or MATH A108 or MATH A109 or		3-6
MATH A200 or MATH A201 or MATH A270 or MATH A272*		
AS A252	Elementary Statistics (3)	3-4
	or	
AS A253*	Applied Statistics for the Sciences (4)	
4. Liberal Studies Social Sciences (LSSS) Core

AKNS/PS A411	Tribes, Nations and Peoples	3
LSSS A111	Cultural Foundations of Human Behavior	3
PSY A111*	General Psychology (3)	3
	or	
PSY A150*	Life Span Development (3)	
ANTH A250*	The Rise of Civilization	3
HIST A355	Major Themes in US History	3
LSSS A311	People, Places, and Ecosystems	3
LSSS A312	Individuals, Groups, and Institutions	3
5. Liberal Studies Humanities Core

Complete one course from GER Fine Arts list*		3
Complete an approved Elective in Studio Art,		3
Performing Art or Creative Writing (Must be different from course used for the Fine Arts General Education Requirement)		
HUM A211*	Introduction to Humanities I	3
HUM A212*	Introduction to Humanities II	3
ENGL A202*	Masterpieces of World Literature II	3
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

LSIC/PHIL A231	Truth, Beauty, and Goodness	3
LSIC A331	Power, Authority, and Governance	3
LSIC A332	Science, Technology, and Culture	3
LSIC A488A	Capstone Project I: Design and Research	3
LSIC A488B	Capstone Project II: Analysis and Presentation	3
LSIC A192	Seminar I	1
LSIC A292	Seminar II	1
LSIC A392	Seminar III	1
LSIC A492	Seminar IV	1
7. Two Discipline Area Concentration 18
 - a. 12 credits in one discipline, of which 9 credits must be at the upper-division level, in either the Natural Sciences, Mathematical Sciences, Social Sciences, or Humanities/Fine Arts Disciplinary Areas and;
 - b. 6 additional credits in a second discipline from either Natural Sciences Mathematical Sciences, Social Sciences, or Humanities/Fine Arts, of which 3 credits must be at the upper-division level.
For example 12 credits in Political Science and 6 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.

FACULTY

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 Patricia Heiser, Assistant Professor, AFPAH1@uaa.alaska.edu
 Travis Rector, Assistant Professor, AFTAR@uaa.alaska.edu

MATHEMATICS

www.math.uaa.alaska.edu

Social Sciences Building (SSB), Room 154, (907) 786-1742/4824

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. 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:

- Obtain an Associate of Applied Science degree
- Obtain an Associate of Arts degree
- Obtain a variety of Certificates
- Study mathematics for use in another discipline
- Improve job-related mathematics skills
- 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:

- Meet the requirements for "Graduation with Honors" as listed in Chapter 7 of this UAA catalog.
- Meet the requirements for a BA/BS degree in Mathematics.
- Earn grade point average of 3.5 or above in the major requirements.
- Complete a minimum of twelve upper-division credits required for the major in residence.
- Students intending to graduate with Departmental Honors must notify the Chair of the Mathematical Sciences Department, in writing, on or before the date they file their Application for Graduation with the Enrollment Services Office.

BACHELOR OF ARTS, MATHEMATICS

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 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

Students pursuing a Bachelor of Arts degree in Mathematics may choose from two options.

1. Complete the following core courses (26 Credits)

AS A307	Probability and Statistics	3
CS A105	FORTTRAN Programming	3
	or	
CS A107	Pascal Programming	
	or	
CS A109	Computer Programming (Languages vary)	
	or	
CS A201	Programming Concepts	
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
	or	
MATH A422	Partial Differential Equations	3

- Complete 3 additional courses from the following list:
AS A308, AS A402, AS A403, AS A404, AS A405, AS A407, AS A408, MATH A305, MATH A306, MATH A310, MATH A371, MATH A407, MATH A408, MATH A410, MATH A420, MATH A422.
- 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.

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

- Complete 2 additional courses from the following list:
AS A308, AS A402, AS A403, AS A404, AS A405, AS A407, AS A408, MATH A302, MATH A310, MATH A321, MATH A324, MATH A371, MATH A407, MATH A408, MATH A410, MATH A422.
- 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.
- A total of 120 credits is required for the degree, of which 42 must be upper division

BACHELOR OF SCIENCE, MATHEMATICS**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 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

Students pursuing a Bachelor of Science degree in Mathematics may choose from two options.

1. Complete the following core courses (26 Credits)

AS A307	Probability and Statistics	3
CS A105	FORTRAN Programming	3
	or	
CS A107	Pascal Programming	
	or	
CS A109	Computer Programming (Languages vary)	
	or	
CS A201	Programming Concepts	
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
	or	
MATH A422	Partial Differential Equations	3

a. Complete 3 additional courses from the following list:

AS A308, AS A402, AS A403, AS A404, AS A405, AS A407, AS A408, MATH A305, MATH A306, MATH A310, MATH A371, MATH A407, MATH A408, MATH A410, MATH A420, MATH A422.

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.**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 Teaching 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 2 additional courses from the following list:

AS A308, AS A402, AS A403, AS A404, AS A405, AS A407, AS A408, MATH A302, MATH A310, MATH A321, MATH A324, MATH A371, MATH A407, MATH A408, MATH A410, MATH A422.

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.**3. 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, 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

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MUSIC

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The Department of Music is dedicated to providing leadership in the musical arts for the state of Alaska. This is accomplished through teaching, performance, recordings, composition, publication, community outreach, and other creative and service-oriented endeavors related to the field of music. At the institutional level, the Department of Music, as a unit of the College of Arts and Sciences, provides a vital liberal arts link for the University of Alaska Anchorage.

The Department of Music exerts intellectual, pedagogic, and creative leadership at the college, pre-college and community level. Its music degree programs foster excellence in the preparation of music students for graduate school, teacher training, or other careers in music. Music faculty and programs also serve as an important community resource in the training of pre-college talent. In addition, the Department seeks to serve the lifelong learning component of the university mission in that it supports courses needed for professional development and offers the community access to opportunities for continuing education.

The Department of Music offers three degree programs: Bachelor of Arts, Music; Bachelor of Music, Performance; and Bachelor of Music, Emphasis Music Education. A minor in Music is also available.

The Bachelor of Arts, Music is a curriculum planned for those desiring a broad liberal arts education with a concentration in music. Students pursuing this degree sample courses of their choosing in each of the major academic areas while still having time to strengthen understanding and performance in their chosen musical area.

The Bachelor of Music, Performance degree is a professional music degree. Students focus on the development of skills, concepts, and sensitivities essential for success as a performing musician. Students work to achieve a high level of technical competence in their performing area while gaining a broad knowledge of music theory, history and literature.

The Bachelor of Music, Emphasis Music Education degree is a four-year program that provides initial training for a career in teaching music. This professional music degree is followed by a one-year post-baccalaureate program which completes the certification requirements for Music K-12. Contact the College of Education for more information.

BACHELOR OF ARTS, MUSIC BACHELOR OF MUSIC, PERFORMANCE BACHELOR OF MUSIC, EMPHASIS MUSIC EDUCATION

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 exam 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 exam 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.

Note: total credits for graduation may increase unless students select at least 3 credits of upper-division courses in fulfillment of GER/CAS requirements

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, Emphasis in Music Education degree).

D. MAJOR REQUIREMENTS: ALL MAJORS

1. Complete the following required courses (32 credits):

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, A420-A424, or A431-A432, for example) or in upper-division private lessons (MUS A361) until they have passed the Piano Proficiency exam by jury.

E. ADDITIONAL MAJOR REQUIREMENTS: BACHELOR OF ARTS, MUSIC

1. Private lessons 4
(on your major instrument, MUS A161-A262)
2. Ensemble 10
Voice Majors: MUS A301B
Piano Majors: MUS A302B
Wind Majors: MUS A303B
Percussion Majors: MUS A303B
String Majors: MUS A307B
Guitar Major: MUS A409B
3. Master Class 4/8
Four semesters of Master Class are required.
Choose the class appropriate to your major instrument.
Wind and String Majors
MUS A466 (4)
or
Voice, Piano and Guitar Majors
MUS A467, A468, or A469 (8)
or
Percussion Majors
MUS A408B (8)
4. 67 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.

ADDITIONAL MAJOR REQUIREMENTS: BACHELOR OF MUSIC, PERFORMANCE

1. Private lessons 16
(on your major instrument, MUS A161-A462)
2. Ensemble 16
Voice Majors: MUS A301B
Wind Majors: MUS A303B
Percussion Majors: MUS A303B
String Majors: MUS A307B
Piano Majors: MUS A302B 12
and MUS A301B or A303B or A307B 4
Guitar Majors: MUS A409B 12
and A301B or A303B or A307B 4
3. Chamber Ensemble 2
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, A302, A313, A407, A408 or A409.

Note: Credits completed will vary from two to four, depending upon which courses are selected.

4. Master Class 8/16
Eight semesters of Master Class are required.
Choose the class appropriate to your major instrument:
Wind and String Majors
MUS A466 (8)
Voice, Piano and Guitar Majors
MUS A467, A468, or A469 (16)
Percussion Majors
MUS A408B (16)
5. Conducting 2
MUS A381 Choral Conducting (2)
or
MUS A382 Instrumental Conducting (2)
6. Upper-division elective credits 12
Select from these 3-credit courses:
MUS A420-A424 history seminars
MUS A431 Counterpoint
MUS A432 Orchestration
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 a two-semester language sequence to satisfy the CAS, BM, and PERF requirement.
9. A total of 122-130 credits is required for the degree, of which 42 credits must be upper-division.

ADDITIONAL MAJOR REQUIREMENTS: BACHELOR OF MUSIC, EMPHASIS MUSIC EDUCATION

1. Private lessons 16
(on your major instrument) MUS A161-A462
2. Ensemble 16
Voice Majors: MUS A301B
Wind Majors: MUS A303B
Percussion Majors: MUS A303B
String Majors: MUS A307B
Piano Majors: MUS A302B (12)
and MUS A301B or A303B or A307B (4)
Guitar Majors: MUS A409B (12)
and A301B or A303B or A307B (4)
3. Chamber Ensemble 2
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, A302, A313, A407, A408 or A409.

Note: Credits completed will vary from two to four, depending upon which courses are selected.

4. Master Class 8
Eight credits of Master Class are required.
Choose the class appropriate to your major instrument:
Wind and String Majors
MUS A466 (8)
Voice, Piano and Guitar Majors
MUS A467, A468, or A469 (8)
Percussion Majors
MUS A408B (8)
5. Conducting 2
MUS A381 Choral Conducting (2)
or
MUS A382 Instrumental Conducting (2)
6. Methods and Techniques 12
MUS A371-A376

7. Music History elective (select from): 3
MUS A420-A424 history seminars
8. MUS A432 Orchestration 3
9. Students seeking a Bachelor of Music, Emphasis Music Education degree must complete a half recital their senior year. Students must demonstrate in this recital the ability to perform a program of artistic merit satisfactorily in public.
10. It is recommended that students select HIST A341 as a GER Social Science course.
11. A total of 128-130 credits is required for the degree of which 42 credits must be upper-division.
12. Students wanting certification in Music K-12 must complete a one-year post-baccalaureate program. Admission to the program is limited.
13. UAA's graduate application for admission into the post-baccalaureate program must be completed either by MARCH 1 for admission to the program the following Summer or by OCTOBER 1 for admission to the program the following Spring.
14. Students seeking music certification must have completed all requirements for the Bachelor of Music, Emphasis Music Education degree with a 3.0 GPA or better for admission to the post-baccalaureate program.
15. Students must take the GRE, PRAXIS I and the PRAXIS II in music for admission to the post-baccalaureate program. This should be done in the Fall semester, the year before starting the program.
16. Students seeking certification should contact the College of Education for an application packet and a detailed description of the post-baccalaureate program.

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, eight of which must be upper-division.

1. MUS A111, A131, or A132 6
2. MUS A121 or A221 or A222 3
3. Private Lessons
MUS A161-A162 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.
Two semesters of master class are required; credits vary.
MUS A466, A467, A468, A469 or A408B 2/4
5. Ensemble
Choose the ensemble appropriate to your major instrument.
MUS A301B, A302B, A303B, A307B, or A409B 4/6

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NATURAL SCIENCES

<http://biology.uaa.alaska.edu>

Engineering Building (ENGR) Room 333, (907) 786-4770

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 that they complete 12 credits in each of the following sciences: Biology, Chemistry, Physics, 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 advisor will be assigned according to 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.

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, AS A253 or AS 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 (24 credits):
 - a. BIOL A115 Fundamentals of Biology I (4)
BIOL A116 Fundamentals of Biology II (4)
 - b. CHEM A105/L General Chemistry I (4)
CHEM A106/L General Chemistry II (4)

- c. GEOL A111 Physical Geology (4)
 GEOL A112 Historical Geology (4)

- d. PHYS A123/L Basic Physics I (4)
 PHYS A124/L Basic Physics II (4)

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 A252 also 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 from at least two science disciplines, of which at least 35-38 credits must be upper-division. UAA science courses approved for the Natural Sciences degree are listed below.

Applied Statistics	Geology
Anthropology	Geographic Information Systems
Astronomy	Geomatics
Biology	Health Sciences
Chemistry	Honors Program
Computer Science	Mathematics
Environmental Studies	Psychology
Geography	AF Palmer Research Center

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:

Applied Statistics	Natural Resource Management
Environmental Sciences	Wildlife Management
Engineering	Oceanography

Note: Credit for laboratory, internship, or clinical practicum courses will be awarded on an individual basis with the general rule of one credit for three lab hours applying in most cases.

3. Courses taken to meet the 50 credit Natural Sciences major degree requirement must be chosen with the approval of your advisor.
4. Submit a Program of Study signed by your advisor to Enrollment Services Office during the semester prior to the semester in which you plan to graduate. All courses listed in the Program of Study must be approved by the formal advisor before submission to the Enrollment Services Office.
5. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

FACULTY

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PHILOSOPHY

<http://philosophy.uaa.alaska.edu/>

Administration/Humanities Building (ADM), Room 254, (907) 786-4455

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 non profit 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 an appropriate minor for Justice majors.

PHILOSOPHY DEPARTMENT HONORS

The Department of Philosophy recognizes exceptional undergraduate students by awarding them Departmental Honors in Philosophy and noting the award on their permanent university transcript. 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 Enrollment Services Office is filed, of the intention to graduate with Departmental Honors.

BACHELOR OF ARTS, PHILOSOPHY

ADMISSIONS 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 (15 credits):

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 (18-21 credits):

Note: courses selected may not be used in more than one track

Philosophy Track

Complete the following courses (21 credits):

Applied Ethics: Complete one course from the following: 3

PHIL A302	Biomedical Ethics (3)
PHIL/ENV1 A303	Environmental Ethics (3)
PHIL A304	Business Ethics (3)
PHIL A405	Professional Ethics (3)

Philosophical Problems: Complete two courses from the following: 6

PHIL A309	Philosophy of Mind (3)
PHIL A311	Metaphysics and Epistemology (3)
PHIL A421	Philosophy of the Sciences (3)

Topics in Philosophy: Complete one course from the following: 3

PHIL A313B	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 A490	Topics in Contemporary Philosophy	3
PHIL A492	Seminar on an Enduring Philosopher	3
PHIL A498	Senior Research Project	3

Law Track

Complete the following courses (21 credits):

Professional Ethics		
PHIL A405	Professional Ethics	3

Philosophical Foundations of the Law

PHIL A406	Philosophy of Law	3
PS A332	History of Political Philosophy I: Classical	3
PS A333	History of Political Philosophy II: Modern	3
JUST A250	Development of Law	3
PS/JUST A343	Constitutional Law	3
PHIL A498	Senior Research Project	3

Applied Ethics Track

Complete the following courses (18 credits):

Professional Ethics

PHIL A405	Professional Ethics	3
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Applied Ethics Core. Complete two from the following: 6

PHIL A302	Biomedical Ethics (3)
PHIL/ENVI A303	Environmental Ethics (3)
PHIL A304	Business Ethics (3)
PHIL A406	Philosophy of Law (3)
PHIL A415	Feminist Philosophy (3)

Complete the following three courses (9 credits):

PHIL A490	Topics in Contemporary Philosophy	3
PHIL A495	Service Learning in Applied Ethics	3
PHIL A498	Senior Research Project	3

- A total of 120 credits is required for the degree of which 42 credits must be upper-division.

CERTIFICATE, APPLIED ETHICS

ADMISSION REQUIREMENTS

A student must satisfy the Admission to Certificate Requirements in Chapter 7, "Academic Standards and Regulations."

GRADUATION REQUIREMENTS

- 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	3
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Ethical Theory. Complete the following course:

PHIL A301	Ethics	3
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Applied Ethics. Complete two courses from the following: 6

PHIL A302	Biomedical Ethics (3)
PHIL/ENVI A303	Environmental Ethics (3)
PHIL A304	Business Ethics (3)

Professional Ethics. Complete one course from the following: 3

PHIL A405	Professional Ethics (3)
BA A488	The Environment of Business (3)
EQE A610	Environmental Ethics for Engineers (3)
HUMS A412	Ethical Issues in Human Services Practice (3)
JPC A440	The Press: Issues and Answers (3)
PADM A618	Public Accountability, Ethics and Law (3)
PSY A611	Ethics and Professional Practice (3)

Note: Graduate courses taken to satisfy this requirement cannot also be counted towards a graduate degree in that program.

Service Learning. Complete the following course:

PHIL A495	Service Learning in Applied Ethics	3
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- 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	3
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Foundations of Philosophy

PHIL A201	Introduction to Philosophy	3
PHIL A211	History of Philosophy I	3
PHIL A212	History of Philosophy II	3

Complete two courses from the following: 6

PHIL A301	Ethics (3)
PHIL A302	Biomedical Ethics (3)
PHIL/ENVI A303	Environmental Ethics (3)
PHIL A304	Business Ethics (3)
PHIL A309	Philosophy of Mind (3)
PHIL A311	Metaphysics and Epistemology (3)
PHIL A313B	Eastern Philosophy and Religion (3)
PHIL A314	Western Religion (3)
PHIL A401	Aesthetics (3)
PHIL A405	Professional Ethics (3)
PHIL A406	Philosophy of Law (3)
PHIL A415	Feminist Philosophy (3)
PHIL A421	Philosophy of the Sciences (3)

Law Track

Complete the following courses:

Logical Reasoning and Argumentation

PHIL A101	Introduction to Logic	3
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Foundations of Philosophy

PHIL A201	Introduction to Philosophy	3
PHIL A211	History of Philosophy I	3
PHIL A212	History of Philosophy II	3

Ethics and Values

PHIL A301	Ethics	3
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Philosophical Foundations of the Law

PHIL A406	Philosophy of Law	3
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PHYSICS

Engineering Building (ENGR), Room 333D, (907) 786-1238

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

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POLITICAL SCIENCE

<http://polsci.uaa.alaska.edu>

Social Sciences Building (SSB), Room 367, (907) 786-4897

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 intellectual discipline; and to supply a guide for choice.

Political Science is divided into five areas: Comparative Politics, International Relations, Political Philosophy, American Politics, and Political Behavior. Majors in Political Science are required to take at least one course in each of these areas, to specialize in one of them, and to complete introductory courses in political science.

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 which may be used to meet GER and/or CAS BA requirements are designated by a section mark (§) after their titles.

1. Complete the following core courses (18 credits):

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 credits):

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)
PS A424	International Law and Organization (3)
PS A490	Studies in Politics (1-3)

Political Philosophy

*PS A331	Political Philosophy § (3)
*PS A332	History of Political Philosophy I: Classical § (3)
*PS A333	History of Political Philosophy II: Modern § (3)
PS A432	Contemporary Political Theory (3)
PS A490	Studies in Politics (1-3)

American Politics

*PS A341	Congress (3)
*PS A342	The American Presidency (3)
PS/JUST A343	Constitutional Law (3)
PS A344	State and Local Politics (3)
PS A345	Alaska Government and Politics (3)
PS/AKNS A346	Alaska Native Politics (3)
PS A347	Public Administration (3)
PS A348	Public Policy (3)
PS A490	Studies in Politics (1-3)

Political Behavior

*PS/SOC A351	Political Sociology § (3)
*PS A353	Political Behavior, Participation, and Democracy (3)
PS A453	Organization Theory (3)
PS A490	Studies in Politics (1-3)
PS A495	Internship in Political Science (1-3)

3. Complete 6 credits in additional upper-division Political Science courses from one of the five areas listed above. PS A490 may be repeated with different subtitle.
4. A total of 120 credits is required for the degree, of which 42 credits must be upper-division, and a minimum of 39 Political Science credits.

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 octothorpe (#) after their titles.

POLITICAL SCIENCE MINOR

Introductory courses (6 credits):

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 (6 credits):

PS A101	Introduction to American Government #	3
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PS A102	Introduction to Political Science #	3
Additional courses, as follows (12 credits):		
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

<http://psych.uaa.alaska.edu>

Social Sciences Building (SSB), Room 214, (907) 786-1711

The baccalaureate program in psychology offers students psychological information (theory and application), and skills for living more effectively, for gaining or advancing in employment, and admission to higher levels of education. Both the Bachelor of Arts and the Bachelor of Science degrees are available.

The psychology major requirements are flexible and are designed to serve a variety of career goals. 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.

HONORS IN PSYCHOLOGY

The Department of Psychology recognizes exceptional undergraduate students by awarding them Departmental Honors in Psychology and noting the award on their permanent university transcript. 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.
2. Maintain an cumulative GPA of 3.50.
3. Take Foundations of Modern Psychology (PSY A412).
4. Take Conducting Research in Psychology (PSY A420).
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 Enrollment Services Office.

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 for either a BA or BS degree listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS (41 CREDITS)

1. Complete these required core courses (29 credits):

PSY A111	General Psychology	3
PSY A150	Life Span Development	3
PSY A260	Statistics for Psychology	3
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. 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 course 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 412, 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)
PSY A420	Conducting Research in Psychology (3)
PSY A427	Field Experience in Psychology (3)
PSY A499	Senior Thesis (3)
3. Take an additional 9 credits of psychology, 6 of which must be upper-division.
4. All psychology majors must take 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 the 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

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SOCIOLOGY

<http://sociology.uaa.alaska.edu>
 Social Sciences Building (SSB), Room 372, (907) 786-1714

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 B.A. or B.S. degree in Sociology.
2. Maintain a grade point average of 3.50 or above in all Sociology courses.
3. Complete SOC A488 (Capstone Seminar) with a grade of "A."
4. Attain a score at or above the 90th percentile on the ETS Major Field Test.
5. Students wishing to graduate with Departmental Honors must notify the Department Honors Committee, in writing, on or before the date they file their Application for Graduation with the Enrollment Services Office.

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 (19 credits):

SOC A101	Introduction to Sociology	3
SOC A307	Demography	3
SOC/PS A361	Social Science Research Methods	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:

Note: Courses may not be applied to more than one option.

Option I

Family and Life Cycles (18 credits):

For majors specializing in small groups and family systems:

a. Complete two general background courses (6 credits): 6

SOC A363	Social Stratification (3)
SOC A375	Social Psychology (3)
SOC A405	Social Change (3)

b. Complete two core area courses (6 credits): 6

SOC A242	An Introduction to Marriage, Family and Intimate Relationships (3) or
SOC A342	Sexual, Marital and Family Lifestyles (3)
SOC A246	Adolescence (3)
SOC A310	Sociology of Aging (3)
SOC A377	Men, Women and Change (3)
SOC A452	Violence in Intimate Relationships (3)

c. Select either the Academic Emphasis or the Applied Emphasis (6 credits): 6

- For the Academic Emphasis, complete two additional courses from item "b" core area courses (above).
- For the Applied Emphasis, complete two courses from the following application courses:

SOC A352	Women and Social Action (3)
SOC/JUST A454	Evaluation Research and Change (3)
SOC A487	Sociology Practicum (3) (May be repeated)

Option II

Community and Change (18 credits):

For majors specializing in rural community and urban systems.

a. Complete two general background courses (6 credits): 6

SOC A202	The Social Organization of Society (3)
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SOC A343	Sociology of Deviant Behavior (3)
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SOC A363	Social Stratification (3)
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SOC/HS A370	Medical Sociology (3)
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SOC A404	Environmental Sociology (3)
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SOC A405	Social Change (3)
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b. Complete two core area courses (6 credits): 6

SOC A222	Small and Rural Communities (3)
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SOC A309	Urban Sociology (3)
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SOC A373	Strategies of Community Change (3)
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SOC/SWK A407	Formal Organizations (3)
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SOC A408	Sociology of Race and Ethnicity (3)
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c. Select either the Academic Emphasis or the Applied Emphasis (6 credits): 6

- For the Academic Emphasis, complete two additional courses in item "b" core area courses (above).

- For the Applied Emphasis, complete two courses from the following application courses:

SOC A352	Women and Social Action (3)
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SOC/JUST A454	Evaluation Research and Change (3)
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SOC A487	Sociology Practicum (3) (May be repeated)
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Option III

General Sociology (18 credits):

For majors desiring a general sociology degree.

a. Complete three courses from the following (9 credits): 9

SOC A201	Social Problems and Solutions (3)
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SOC A343	Sociology of Deviant Behavior (3)
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SOC A347	Sociology of Religion (3)
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SOC/PS A351	Political Sociology (3)
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SOC A404	Environmental Sociology (3)
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SOC/SWK A407	Formal Organizations (3)
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b. Complete an additional three courses from the following: 9

SOC A363	Social Stratification (3)
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SOC/HS A370	Medical Sociology (3)
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SOC A375	Social Psychology (3)
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SOC A387	Gay and Lesbian Lifestyles (3)
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SOC A405	Social Change (3)
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SOC A408	Sociology of Race and Ethnicity (3)
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- A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

MINOR, SOCIOLOGY

Students majoring in another subject who wish to minor in Sociology must complete the following requirements. A total of 21 credits is required for the minor.

SOC A101	Introduction to Sociology	3
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SOC/PS A361	Social Science Research Methods	3
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SOC A402	Theories of Sociology	3
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Upper-division Sociology electives	6
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Sociology electives, any level	6
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THEATRE

<http://theatre.uaa.alaska.edu/>

Fine Arts Building (ARTS), Room 332, (907) 786-1792

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, voice, dialects, 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 produces four plays on its "modified thrust" Mainstage, and as many as twenty one-act or full-length plays in the student-directed Second Stage program. In some years, one of our productions is chosen to tour rural Alaska. The plays are cast at open auditions and more than 100 majors, non-majors and members of the community are involved in our season each year. All Theatre 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 either on Mainstage and/or in the Second Stage black box theatre inclusive of the Dance Ensemble's annual "Voices" concert and our "Expanding the Stage" offering. "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 "Voices" 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 Services.

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

1. Complete the following required core courses (25 credits):

THR A121	Acting I	3
THR A131	Theatrical Production Techniques	3
THR A221	Acting II: Movement for Actors	3
THR A295	Theatre Practicum: Technical	2
THR A257	Costume Design and Construction I	3
THR A331	Directing I	3
THR A411	History of the Theatre I	3
THR A412	History of the Theatre II	3
THR A495	Theatre Practicum: Technical	2

2. Complete one of the following Design Area courses (3 credits):

THR A347	Lighting Design (3)
THR A357	Costume Design and Construction II (3)

3. Complete one of the following Options

Theatre Option: (18 credits)

Complete the following required courses (12 credits):

THR A111	Introduction to Theatre	3
THR A141	Stagecraft I	3
THR A243	Scene Design	3
THR A311	Representative Plays I (3)	3
	OR	

THR A312	Representative Plays II (3)	
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Complete two of the following Performance Area courses:

THR A315	Playwriting Workshop (3)	6
THR A321	Acting III: Scene Study (3)	
THR A324	Voice of the Actor	
THR A325	Theatre Speech (3)	
THR A328	Acting Shakespeare (3)	
THR A329	Combat for the Stage (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)	7
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	Beginning Tap Dance I (1)	
DNCE A205	Fundamentals of Ballet II (2)	
DNCE A223	Fund of Modern II (2)	

DNCE A234	Fund of Jazz II (2)	
DNCE A224	Dance for Musical Theatre II (2)	
DNCE A245	Dances of the West African Diaspora II (2)	
DNCE A252	Beginning Tap II (1)	
DNCE A321	Intermediate Modern I (2)	
DNCE A322	Intermediate Modern II (2)	
DNCE A360	Contemporary Techniques, Composition and Repertory (1)	
DNCE A365	Dance Repertory and Performance (2)	
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	Acting I	3
THR A141	Stagecraft I	3
THR A311	Representative Plays I (3)	3
	or	
THR A312	Representative Plays II (3)	
THR A411	History of the Theatre I (3)	3
	or	
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	Dance Studies	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	Beginning Tap Dance I (1)	
DNCE A205	Fundamentals of Ballet II (2)	
DNCE A223	Fund of Modern II (2)	
DNCE A224	Dance for Musical Theatre II (2)	
DNCE A234	Fund of Jazz II (2)	
DNCE A245	Dances of the West African Diaspora II (2)	
DNCE A321	Intermediate Modern I (2)	
DNCE A322	Intermediate Modern II (2)	
DNCE A360	Contemporary Techniques, Composition and Repertory (1)	
DNCE A365	Dance Repertory and Performance (2)	
DNCE A465	Advanced Performance and Choreographic Workshop (3)	

FACULTY

Tom Skore, Professor/Chair, TSKORE@ptialaska.net
 Frank Bebey, Associate Professor
 Jill Crosby, Associate Professor, AFJAF@uaa.alaska.edu
 David Edgecombe, Professor, AFDPE@uaa.alaska.edu
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WOMEN'S STUDIES

<http://womens.uaa.alaska.edu>

Social Sciences Building (SSB), Room 372 (907) 786-1714

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 are required for the minor, of which 9 must be upper-division.

- Complete these required courses (9 credits):

WS A200	Introduction to Women's Studies	3
WS A400	Feminist Theory	3
WS A401	Seminar in Women's Studies (1-3)*	3
- Complete 9 credits of pre-approved electives. You 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 Co-Chairs. 9

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)
HIST/RUSS A384	Russian Women (3)
HUMS A350	Men and Masculinity (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, Women 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 Co-Chairs.

FACULTY

Sharon Araj, Professor/Chair, AFSKA1@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 work force and also promoting excellence in public, private and non-profit management and related business disciplines, providing professional assistance to public, private and non-profit 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, 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 forty 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 Advance Collegiate Schools of Business (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 (BEB 309).

The College of Business and Public Policy embraces the University's mission to serve Alaska and global communities (with specific focus on the North Pacific Rim) by providing community college business education; baccalaureate and graduate business education; and research/outreach services. 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, 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

www.cbpp.uaa.alaska.edu/degrees/degrees.asp
Business Education Building (BEB), Room 309, (907) 786-4100

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. To provide maximum transferability to the BBA in Accounting, it is recommended that students consider the Bachelor of Business Administration general education and business core requirements when selecting courses to fulfill the Associate of Applied Science general requirements and business electives.

MAJOR REQUIREMENTS

1. Complete the following required courses (33 credits):

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 Computers and Accounting	3
ACCT A225	Accounting for Payroll, Receivables and Payables	3
ACCT A230	Financial Statement Preparation and Presentation	3
BA A151	Introduction to Business	3
BA/JUST A241	Business Law I	3
CIS A110	Computer Concepts in Business	3
ECON A201	Principles of Macroeconomics	3
2. Complete 12 credits of electives. Students may choose any course at the 100-level or above in ACCT, BA, CIS, 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 (30-31 credits):

ACCT A201 and A202	6
BA A273	3
CIS A110	3
COMM A111, A235, A237, or A241	3
ECON A201 and A202	6
ENGL A111 and A212	6
MATH A270 or A107	3-4
3. Completion of at least 9 credits that satisfy UAA General Education Requirements in the following areas : 9

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, and LOG. Other students who meet courses' prerequisites may take up to fifteen (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 fifteen 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

A minimum of 60 credits for this degree must be from outside the business area. All ACCT, BA, CIS and LOG courses are considered within the business area. Six (6) credits from Applied Statistics (AS), BA A273 or BA A375 and 9 ECON credits may be counted as being outside the business area; any additional credits in these areas will be counted as being within the business area. At least 50% of the business credits required for the BBA degree must be earned at the University of Alaska Anchorage.

Complete the BBA core requirements (27-29 credits):

1. 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	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 A270	Applied Finite Mathematics for the Managerial Sciences (3)	3-4
	or	
MATH A107	College Algebra (4)	
MATH A272	Calculus for Managerial Sciences (3)	3-4
	or	
MATH A200	Calculus I (4)	

**The ACCT A101 and 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 A270 and MATH A272.

2. Complete these upper-division core courses with a "C" or better (21 credits):

ACCT A316	Accounting Information Systems	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 (27 credits):

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	3
BA/UST 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 I (3)
ACCT A410	Advanced Income Tax (3)
ACCT A411	Estate and Trust Tax Law (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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 Rudy Fernandez, Associate Professor, AFRFF@uaa.alaska.edu
 C. Patrick Fort, Professor, AFCPF@uaa.alaska.edu
 Donna Kilpatrick, Assistant Professor, AFDJK@uaa.alaska.edu
 Lynn Koshiyama, Professor, AFLKK@uaa.alaska.edu
 Robert Maloney, Professor/Chair, AFRM1@uaa.alaska.edu

BUSINESS ADMINISTRATION

www.cbpp.uaa.alaska.edu/degrees/degrees.asp
 Business Education Building (BEB), Room 309, (907) 786-4100

The Department of Business Administration offers a Certificate in Small Business Management at the Kenai campus, an AAS degree in General Business at the Kodiak campus, 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 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, & distribution of ideas, goods, & 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 & Marketing Management.

CERTIFICATE, SMALL BUSINESS MANAGEMENT

This Small Business Management certificate is offered only through Kenai Peninsula College (KPC).

The one-year Small Business Management certificate enables the student to explore business career options and gives entry-level job skills and/or upgrades skills for employment advancement. It also serves as the first year of training towards the two-year Associate of Applied Science in Small Business Administration.

- Complete the following communications requirements (6 credits):

ENGL A111	Methods of Written Communication	3
Select 3 credits from the following:		3
ENGL A211	Academic Writing About Literature (3)	
ENGL A212	Technical Writing (3)	
ENGL A213	Writing in the Social and Natural Sciences (3)	
CIOA A260A	Business Communications (3)	
 - Complete the following requirements:
 - Select 3 credits from the following: 3

ACCT A101*	Principles of Financial Accounting I (3)
ACCT A201	Principles of Financial Accounting (3)
ACCT A120	Bookkeeping for Business I (3)
 - Select 3 credits from the following: 3

ACCT A102*	Principles of Financial Accounting II (3)
ACCT A202	Principles of Managerial Accounting (3)
ACCT A222	Introduction to Computers and Accounting (3)
- *Students taking ACCT A101 and ACCT A102 cannot use ACCT A201 for credit for the Small Business Management certificate.*
- Complete the following:

BA A166	Small Business Management	3
BA A231	Fundamentals of Supervision	3
 - Select 6 credits from the following: 6

ACCT	Accounting
BA	Business Administration
CIS	Computer Information Systems
ECON	Economics
 - With advisor's approval, complete 3-5 elective credits. 3-5

MATH A102	Business Math, or higher is recommended.
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 - A total of 27-29 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, GENERAL BUSINESS

This degree is offered only through Kodiak College.

ADMISSION REQUIREMENTS

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, Academic Standards and Regulations."

GENERAL UNIVERSITY REQUIREMENTS

- Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
- Complete the Associate of Applied Science General Degree Requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

- Complete the following required courses (24 credits):

ACCT A101	Principles of Financial Accounting I	3
ACCT A102	Principles of Financial Accounting II	3
BA A151	Introduction to Business	3
BA/JUST A241	Business Law I	3
BA/JUST A242	Business Law II	3
CIS A105	Introduction to Personal Computers and Application Software	3
ECON A201	Principles of Macroeconomics	3
ECON A202	Principles of Microeconomics	3
- Complete an additional 12 credits from any 100- or 200-level ACCT, BA, CS, ECON, or CIS course. 12
- Complete an additional 9 elective credits. 9
- A total of 60 credits is required for the degree.

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

- Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
- 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 and business core requirements when selecting courses to fulfill the Associate of Applied Science general requirements.

MAJOR REQUIREMENTS

- Complete the required support courses (12-16 credits):

ACCT A101	Principles of Financial Accounting I (3)	3-6
	and	
ACCT A102	Principles of Financial Accounting II (3)	
	or	
ACCT A201	Principles of Financial 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 A270	Applied Finite Mathematics for the Managerial Sciences (3)	

Note: MATH A105 will not satisfy the Quantitative Skills General Education Requirement for the baccalaureate degree.

- Complete the required BA core courses (21 credits):

BA A151	Introduction to Business	3
BA A166	Small Business Management	3
BA A231	Fundamentals of Supervision	3
BA A233	Fundamentals of Financial Management	3
BA/JUST A241	Business Law I	3
BA A260	Marketing Practices	3
BA A264	Personal Selling	3
- Complete 9-12 credits of electives from the following: 9-12

BA A131	Personal Finance (3)
BA A232	Fundamentals of Organizational Management (3)

- | | |
|--------------|-------------------------------------|
| BA/JUST A242 | Business Law II (3) |
| BA A261 | Advertising and Sales Promotion (3) |
| BA A263 | Practices in Consumer Behavior (3) |

- A total of 60 credits is required for the degree.

BACHELOR OF BUSINESS ADMINISTRATION

Major areas: Economics
Finance
Global Logistics Management
Management
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 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 four 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

- Completion of at least 39-40 credits with a cumulative GPA of 2.25 or higher.
- Completion of each of the following courses with a grade of "C" or better (30-31 credits):

ACCT A201 and A202	6
BA A273	3
CIS A110	3
ECON A201 and A202	6
ENGL A111 and A212	6
MATH A270 or A107	3-4
COMM A111, A235, A237, or A241	3
- Completion of at least 9 credits that satisfy UAA General Education Requirements in the following areas: 9

Fine Arts
Humanities
Natural Sciences

Admission to Upper-division Status:

BBA students in Economics, Finance, Global Logistics 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 courses prerequisites may take up to fifteen (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 fifteen 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 MANAGEMENT AND MARKETING MAJORS

A minimum of 60 credits for these degrees must be from outside the business area. All ACCT, BA, CIS, and LOG courses are considered within the business area. 6 credits from Applied Statistics (AS), BA A273 or BA A375 and 9 ECON credits may be counted as being outside the business area; any additional credits in these areas will be counted as being within the business area. At least 50% of the business credits required for the BBA degree must be earned at the University of Alaska Anchorage.

1. Complete the Business core requirements (30-32 credits). 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 A270	Applied Finite Mathematics for the Managerial Sciences (3)	3-4
	or	
MATH A107	College Algebra (4)	
MATH A272	Calculus for Managerial Sciences (3)	3-4
	or	
MATH A200	Calculus I (4)	

*The ACCT A101 and 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 (Calculus) instead of MATH A270 and MATH A272.

2. Complete these upper-division core courses (21 credits). The following courses must be completed with a "C" or better prior to graduating:

BA A300	Organizational Theory and Behavior	3
BA A325	Corporate Finance	3
BA A343	Principles of Marketing	3
BA A377	Operations Management	3
BA A488	The Environment of Business	3
CIS A305	Managerial Presentations	3
CIS A376	Management Information Systems	3
CIS A305	Managerial Presentations	3

D. MAJOR REQUIREMENTS

Economics Major

1. Complete the following requirements (24 credits). 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 A350	Money and Banking	3
ECON A429	Business Forecasting	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

1. Complete the following requirements (15 credits). The following courses must be completed with a "C" or better prior to graduating:

BA A375	Statistics for Business and Economics (3)	3
	or	
ECON A429	Business Forecasting (3)	
BA A425	Advanced Corporate Financial Problems	3
BA A426	Financial Institutions	3
BA A427	International Finance	3
BA A450	Investment Management	3

2. The following courses must be completed with a "C" or better prior to graduating:

	Upper-division Business electives	12
	(At least 9 credits, any combination, must be in ECON, ACCT, or Real Estate).	

3. A total of 120 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

Global Logistics Management Major

1. Complete the following requirements with a grade of "C" or better (15 credits):

LOG A378	Management of Global Logistics Supply Chains	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 Management* 0/3

*The internship is intended to be in logistics. This requirement may be waived if the major advisor determines that the student already has significant logistics work experience. If waived, student may 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)	
BA A350	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 A429	Business Forecasting (3)
ECON A463	International Economics (3)
AT A332	Transport Aircraft Systems (3)
AT A420	Air Transportation System (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 (27 credits). 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 courses with a "C" or better prior to graduating (15 credits):

BA A264	Personal Selling	3
BA A310	Consumer Behavior	3
BA A350	Marketing Research	3
BA A460	Marketing Management	3
ECON A429	Business Forecasting (3)	3

or

BA A375 Statistics for Business and Economics (3)

2. The following courses must be completed with a "C" or better prior to graduating:

Upper-division Business electives Recommended: 6

BA A447	International Marketing (3)
BA A463	Promotion Management (3)

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.

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COMPUTER INFORMATION SYSTEMS

www.cbpp.uaa.alaska.edu/degrees/degrees.asp
 Business Education Building (BEB), Room 309, (907) 786-4100

The Computer Information Systems Department provides educational opportunities in computer information systems through degree programs, courses for all students, and career-enrichment opportunities.

Courses involving computer instruction as well as many other business school courses are supported by seven computerized classrooms and state-of-the-art open laboratory facilities. These computer classrooms and labs provide students with hands-on learning experiences using the latest Intel workstations supported by IBM, Microsoft and Linux network servers. Our computer environment features several state of the art computer languages, including 4GL, query, and object oriented languages.

College of Business and Public Policy students have the opportunity to use the computer facilities to help them with their course work. Laboratories include special business presentation facilities and an experimental multimedia and a decision-support room.

Computer courses are taught using both structured instructor-led and self-guided tutorial approaches in the traditional classroom as well as online discussions.

Computer Information Systems (Business Computer Information Systems, Management 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 Degree 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 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

ADMISSION REQUIREMENTS

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 Counseling 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 wpm) should enroll in CIOS A100A Keyboarding I:A. 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 requirement (21-22 credits):

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 Macroeconomics	3
ECON A202	Principles of Microeconomics	3
MATH A270	Applied Finite Mathematics	
	for the Managerial Sciences (3)	3-4
	or	
MATH A107	College Algebra (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 (3 credits):

BA A273	Introduction to Statistics for Business and Economics	3
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3. Complete CIS required courses (16 credits):

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 credits).

No more than 3 credits of internship can be used to fulfill program electives.

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.

BACHELOR OF BUSINESS ADMINISTRATION, MANAGEMENT INFORMATION SYSTEMS

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 (30-31 credits):

ACCT A201 and A202	6
BA A273	3
CIS A110	3
COMM A111, A235, A237, or A241	3
ECON A201 and A202	6
ENGL A111 and A212	6
MATH A270 or A107	3-4
3. Completion of at least 9 credits that satisfy UAA General Education Requirements in the following areas:

Fine Arts	9
Humanities	
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 courses prerequisites may take up to fifteen (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 fifteen 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

A minimum of 60 credits for this degree must be from outside the business area. All ACCT, BA, CIS (except CIS A185), and LOG courses are considered within the business area. 6 credits from Applied Statistics (AS), BA A273 or BA A375 and 9 ECON

credits may be counted as being outside the business area; any additional credits in these areas will be counted as being within the business area. At least 50% of the business credits required for the BBA degree must be earned at the University of Alaska Anchorage.

1. Complete the Business Core requirements with a grade of "C" or better (27-29):

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 A212	Technical Writing	3
MATH A270	Applied Finite Mathematics for the Managerial Sciences (3)	3-4
	or	
MATH A107	College Algebra (4)	
MATH A272	Calculus for Managerial Sciences (3)	3-4
	or	
MATH A200	Calculus I (4)	

*The ACCT A101 and 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 A270 and MATH A272.

2. Complete these upper-division core courses with a grade of "C" or better (21 credits):

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
CIS A376	Management Information Systems	3

D. MAJOR REQUIREMENTS

1. Complete the following required courses with a grade of "C" or better (22 credits):

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 Communication and Computer Networks	3
CIS A410	Project Management	3
CIS A489	Systems Design, Development and Implementation	3

2. Complete 12 credits of upper-division program electives approved by the department with a grade of "C" or better. These may include, but are not limited to:

CIS A360	Object Oriented Programming in .Net (3)	
CIS A361	Advanced C Programming and UNIX Environments (3)	
CIS A365	Object Oriented Programming (3)	
CIS A390	Selected Topics in Management Information Systems (1-6)	
CIS A395	Programmer/Analyst Internship (1-3)	
CIS A420	Consulting and Training End Users (3)	
CIS A421	Multimedia Authoring (3)	
CIS A423	Decision Support and Expert Systems (3)	

CIS A430	Client-Server Programming (3)	
CIS A445	Advanced Network Management (3)	
CIS A460	Systems Design, Development and Implementation (3)	
CIS A495	Systems Analyst/User-Support Internship (1-3)	
CIS A498	MIS Seminar/Project (1-6)	
ECON A429	Business Forecasting (3)	

3. A minimum of CIS A489 and 9 credits from Major Requirements, items 1 and 2, must be earned at the University of Alaska Anchorage.
4. A total of 120 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

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	3
CIS A185	Introduction to Programming Business Applications	3
CIS A330	Database Management Systems	3
CIS A376**	Management Information Systems	3
	Upper-division CIS electives**	6

**BBA degree students must take CIS A310, and 3 credits of upper-division CIS electives instead of CIS A376 and A305 to meet the requirements for the minor (CIS A376 and 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 A270 or equivalent), and 12 credits in GER courses in Fine Arts, Humanities, Social Sciences, or Natural Sciences.

*Not available to BBA Management Information Systems majors.

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ECONOMICS

www.cbpp.uaa.alaska.edu/degrees/degrees.asp
Business Education Building (BEB), Room 309, (907) 786-4100

The Economics department 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.

The BA and the BBA in Economics prepares students with a systematic understanding of how individuals, organizations and governments make choices about the use of resources; for a broad range of careers, including the private and public sectors; and for advanced studies in economics.

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 3.5 in their major requirements
3. Complete ECON A488, 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 exam for economics majors. 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 (36-37 credits):

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 A350	Money and Banking	3

ECON A412	Econometrics (3)	3
	or	
ECON A430	Mathematics for Economists (3)	
MATH A272	Calculus for Managerial Sciences (3)	3-4
	or	
MATH A200	Calculus I (4)	
	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, A201, 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

www.cbpp.uaa.alaska.edu/degrees/degrees.asp
 Business Education Building (BEB) Room 309, (907) 786-4100

The Logistics Department offers two undergraduate programs: The Certificate in Logistics and a major in Global Logistics Management for the Bachelor of Business Administration.

Logistics refers to the movement of material, component parts and information within a business firm; and the distribution of final products to customers. Logistics is an essential function that adds value to the final product. The goal of logistics management is timely delivery, competitive pricing, mobility and flexibility, together with innovative transportation services. Today competitive advantages in global markets no longer reside solely in manufacturing. Companies that master technology and logistics are setting global standards for overall performance. Firms with a virtual warehouse and a world-wide logistics system that carries out dynamic and continuous distribution are gaining the competitive edge.

Every organization that has a purchasing function and/or a delivery process is engaged in logistics. 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 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. When it comes to logistics, Anchorage has its geographical location working powerfully to create a competitive advantage. Effective development of the logistics sector depends on the availability of a labor force that understands and can manage logistics systems.

CERTIFICATE IN LOGISTICS

The Certificate in Logistics program enables students to enhance their understanding and skills in the fields of logistics and supply chain management. It is designed to provide continuing education opportunities to professionals in the business community.

ADMISSION REQUIREMENTS

Satisfy the Admission to Certificate and Associates Degree Program 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

- Complete the following courses:

LOG A378	Management of Global Logistics Supply Chains*	3
LOG A379	Transportation Management	3
LOG A415	Purchasing Management	3
BA/JUST A241	Business Law I	3

- Select three (3) credits from the following:

CIS A105	Introduction to Personal Computers and Application Software (3)	3
CIS A110	Computer Concepts in Business (3)	
CIS A376	Management Information Systems (3)	
- Complete 15 credits of Selected Topics in Logistics (LOG A290). Each topic must be approved by the student's advisor. Course may be repeated with a change of subtitle.

LOG A290	Selected Topics in Logistics (1-3)	15
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- A total of 30 credits is required for this certificate.

* Instructor permission, required if course prerequisite has not been met.

BACHELOR OF BUSINESS ADMINISTRATION

The requirements for the Bachelor of Business Administration with a major in Global Logistics Management are listed with the BBA located earlier in this chapter.

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COLLEGE OF EDUCATION

<http://ed.uaa.alaska.edu/>

Professional Studies Building (PSB), Room 234, (907) 786-4401

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.

We believe that learning must be designed, delivered, and evaluated within the contexts of the following core values and program outcomes. Consequently, the College of Education promotes the 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.

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. Our professional preparation programs are approved by the Alaska Department of Education and Early Development and meet the accreditation standards established by the National Association of State Directors of Teacher Education and Certification.

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. 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.

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. 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 web site.

Candidates should be advised that total credits may exceed minimums because of prerequisite requirements, individually selected majors and minors, and areas of specialization and/or emphasis.

UNDERGRADUATE PROGRAM OPTIONS

The College of Education offers several program options for candidates interested in working with children.

Early Childhood Development Certificate
Associate of Applied Science in Early Childhood Development
Bachelor of Arts in Early Childhood*
Bachelor of Arts in Elementary Education* (with or without Special Education Emphasis)
Elementary Teacher Certification Only*

**Programs fulfill Alaska Department of Education and Early Development teacher certification or endorsement requirements.*

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

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.

Candidates who have completed all or part of an approved program at another university must take at least nine credits of approved education courses at the University of Alaska Anchorage prior to being admitted to an advanced practicum or internship.

The College of Education has three academic departments:

1. The Department of Teaching and Learning with programs in early childhood education, elementary education, and secondary education. (907) 786-4412
2. The Department of 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 adult education and educational leadership (principal and superintendent preparation). (907) 786-4450

PROFESSIONAL AND CONTINUING EDUCATION

<http://pace.uaa.alaska.edu/>

The Office of Professional and Continuing Education (PACE) facilitates professional development opportunities for educators and other service professionals. PACE works collaboratively with UAA academic units and partner organizations to provide responsive service and support for 500-level courses, workshops, conferences, institutes, and academies. Committed to addressing the community's immediate and changing professional development needs, PACE works closely with school districts, professional societies, and private and government agencies.

EARLY CHILDHOOD

<http://ed.uaa.alaska.edu/earlychildhood/index.html>

Professional Studies Building (PSB), Room 220, (907) 786-4401

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 there are four options:

- Early Childhood Development Certificate
- Associate of Applied Science in Early Childhood Development
- Bachelor of Arts in Early Childhood
- Master of Education, Master Teacher Specialty Option in Early Childhood

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 prepares professionals to work with young children from birth through eight years and offers two different emphasis areas: a) Infant/Toddler/Preschool and b) Preschool/Primary. The graduate program offers a Master of Education, Master Teacher Specialty Option in Early Childhood (refer to graduate programs in the graduate section of the catalog). All programs are developed to meet the National Association for the Education of Young Children guidelines for personnel preparation.

CERTIFICATE, 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 Early Childhood Development Certification Program.

Applications may be obtained from the Department of Teaching and Learning. To be admitted to the Early Childhood Development practicum courses (ECD A295A and ECD A295B), applicants must meet all requirements for and be admitted by an advisor into the practicum courses and have earned a grade of "C" or above in all ECD courses.

ACADEMIC PROGRESS

All candidates in the Early Childhood Development Certificate Program must maintain a cumulative GPA of 2.0 or above in all ECD courses.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:

ECD A105	Introduction to the Field of Early Childhood	3
ECD A111	Safe Learning Environments	1
ECD A112	Healthy Learning Environments	1
ECD A113	Learning Environments	1
ECD A121	Physical Activities for Young Children	1
ECD A122	Cognitive Activities for Young Children	1
ECD A123	Communication	1
ECD A124	Creative Activities for Young Children	1
ECD A131	Guidance and Discipline	1
ECD A132	Social Development	1
ECD A211	Development of a Sense of Self	1
ECD A221	Families	1
ECD A222	Program Management	1
ECD A223	Exploring and Developing Personal Capabilities in Teaching	1
ECD A224	Professionalism	1
ECD A231	Screening	1
ECD A232	Assessment/Recording	1
ECD A233	Mainstreaming Preschool Children with Special Needs	1
ECD A295A	Practicum I	3
ECD A295B	Practicum II	3
DN A145	Child Nutrition	2
PSY A245	Child Development	3

2. A total of 31 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 courses (ECD A295A and ECD A295B), applicants must meet all requirements for and be admitted by an advisor into the practicum courses and have earned a grade of "C" or above in all ECD 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 ECD courses.

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:

ECD A105	Introduction to the Field of Early Childhood	3
ECD A111	Safe Learning Environments	1
ECD A112	Healthy Learning Environments	1
ECD A113	Learning Environments	1
ECD A121	Physical Activities for Young Children	1
ECD A122	Cognitive Activities for Young Children	1
ECD A123	Communication	1
ECD A124	Creative Activities for Young Children	1
ECD A131	Guidance and Discipline	1
ECD A132	Social Development	1
ECD A211	Development of a Sense of Self	1
ECD A221	Families	1
ECD A222	Program Management	1
ECD A223	Exploring and Developing Personal Capabilities in Teaching	1
ECD A224	Professionalism	1
ECD A231	Screening	1
ECD A232	Assessment/Recording	1
ECD A233	Mainstreaming Preschool Children with Special Needs	1
ECD A295A	Practicum I	3
ECD A295B	Practicum II	3
DN A145	Child Nutrition	2
PSY A245	Child Development	3
2. Complete an additional 15 credits of electives; 12 credits are to be selected from any of the baccalaureate General Education Requirements and 3 credits may be selected from any area.
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 pre-kindergarten or pre-kindergarten to grade three.

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 a year-long internship 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. The deadline for internship placement consideration is February 20.

Field experiences and internships are made in cooperation with the participating early childhood programs or schools. The partnership programs that work in cooperation with the College of Education Early Childhood Development program reserve the right to request additional information and/or preparation from candidates, in accordance with the program's established policies and practices. Cooperating partnership programs can 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. Partnership programs 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 partnership programs.

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 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. Have a cumulative GPA of 3.00.
4. Successfully complete the Praxis I exam. Applicants may not enroll in early childhood courses without passing this exam at the level established by the College of Education.
5. Provide evidence of a current negative TB skin test. Free tests are available at the Student Health Center for current UAA students.

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

The Early Childhood Programs Admission Committee has the responsibility of determining a candidate's readiness to enroll in methods and the internship. The candidate must realize the

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 Early Childhood major.
2. Submit an application form for admission to internship by February 20.
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 3.0 GPA and a passing score on Praxis II: Elementary Content Knowledge.
5. Provide evidence of successful experiences working with children.
6. Interview, if necessary.
7. Initiate fingerprinting and criminal background check process.
8. Provide evidence of a current physical exam and negative TB skin test. These services are 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. All Early Childhood major courses must be completed with a grade of "C" or higher in order to obtain an institutional recommendation for teacher certification. In addition, 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. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. 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.

Oral and Written Communication Skills (9 credits)

Select one course from GER Oral Communication List	3
Select two courses from GER Written Communication List	6

Liberal Studies Integrated Sciences Core (10 credits)

LSIS A102	Origins: Earth-Solar Systems-Life	5
LSIS A 201	Life on Earth	5

Mathematical Skills (6 credits)

Select one course from GER Quantitative Skills List	3-4
(MATH A107 recommended)	
MATH A205 Communicating Mathematical Ideas	3

Liberal Studies Humanities Core (9 credits)

HUM A211	Introduction to Humanities I	3
HUM A212	Introduction to Humanities II	3
Select one course from GER Fine Arts List		3

Liberal Studies Social Sciences Core (9 credits)

LSSS A111	Cultural Foundations of Human Behavior	3
HIST A341	History of Alaska	3
HIST A355	Major Themes in US History	3

Child Development (8 credits)

PSY A150	Life Span Development	3
PSY A245	Child Development	3
DN A145	Child Nutrition	2

Families & Community Relationships (6 credits)

SWK 342	Human Behavior in the Social Environment	3
SWK 409	Introduction to Child Welfare	3

D. MAJOR REQUIREMENTS

1. Complete the following core courses (39 credits). Field experience in early childhood programs may be required as part of the course.

ECD A105	Introduction to the Field of Early Childhood	3
ECD A210	Guiding Young Children	3
ECD A241	Infant and Toddler Development	3
ECD A242	Family and Community Partnerships	3
ECD A301	Observation, Documentation: Understanding Young Children	4
ECD A303	Young Children in Inclusive Settings	3
ECD A304	Environments, Spaces, and Relationships	3
ED A300	Philosophical & Social Context of American Education	3
ED A301	Foundations of Literacy and Language Development	3
ED A302	Foundations of Ed. Technology	2
ED A303	Foundations of Teaching and Learning	3
ECD A305	Planning Meaningful Curriculum for Young Children	3
ECD A306	Assessment of Young Children	3

2. Complete one of two emphasis areas: Infant/Toddler/Preschool or Preschool/Primary.

Infant/Toddler/Preschool (26 credits)

ECD A401	Infant/Toddler Approaches and Programs	3
ECD A402	Preschool Approaches and Programs	3
ECD A403	Mathematics and Science in Early Childhood	3
ECD A 404	Literacy for Young Children I	3
ECD A405	Literacy for Young Children II	3
ECD A406	Creative Expression in Early Childhood	3
ECD A495A	Internship, Infant/Toddler	4
ECD A495B	Internship, Preschool	4

Preschool/Primary (26 credits)

ECD A403	Mathematics and Science in Early Childhood	3
ECD A 404	Literacy for Young Children I	3
ECD A405	Literacy for Young Children II	3
ECD A406	Creative Expression in Early Childhood	3
ED A427	Teaching Social Studies in Elementary Schools	2
ED A429	Teaching Health Education in Elementary Schools	2
ED A432	Physical Education for Elementary Classroom Teachers	1
ECD A495C	Internship I, Primary	3
ECD A495D	Internship II, Primary	6

3. A total of 122 -123 credits is required for the degree, of which 42 must be upper division.

INSTITUTIONAL RECOMMENDATION - PRE-K-3 TEACHER CERTIFICATION

Candidates who complete the Preschool/Primary emphasis 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 and community relationships completed with a grade of "C" or higher.
3. Cumulative GPA of 3.00.
4. Cumulative GPA of 3.00 in all major requirements.
5. Passing scores on the Praxis I and Praxis II exams.
6. College of Education's educational technology assessment satisfactorily completed.
7. Internships satisfactorily completed.
8. Bachelor of Arts in Early Childhood Education degree conferred.

ELEMENTARY EDUCATION

<http://ed.uaa.alaska.edu/baeled/index.html>

Professional Studies Building (PSB), Room 224, (907) 786-4412

BACHELOR OF ARTS, ELEMENTARY EDUCATION (with Teacher Certification)

Individuals interested in undergraduate elementary teacher preparation may obtain either a B.A. in Elementary Education with elementary teacher certification or Elementary Teacher Certification Only.

The B. A. 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. Applicants are encouraged to take ED A101 Introduction to Education (3 credits) to learn more about the profession. Admission to the program occurs in two stages (see below) and admission to the internship 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 20.

Practica, internships, and other field placements are made only in cooperation with participating school districts. The school districts that work in cooperation with the College of Education reserve the right to request additional information and/or preparation from candidates, in accordance with the district's established policies and practices. Cooperating districts 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 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 students, admittance to a degree/certificate/endorsement program does not guarantee acceptance by cooperating school districts.

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 course work with the exception of ED A101 Introduction to Education and ED A300 Philosophical and Social Context of American 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 exam. With the exceptions of ED A101 Introduction to Education and ED A300 Philosophical and Social Context of American Education, applicants may not enroll in education courses without passing this exam at the level established by the College of Education.
5. Provide evidence of a current negative TB skin test. Free tests are available at the UAA Student Health Center for current UAA students.

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 20.
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 course work and a passing score on Praxis II: Elementary Content Knowledge.
5. Provide evidence of successful experiences working with children.
6. Interview, if necessary.
7. Initiate fingerprinting and criminal background check process.
8. Provide evidence of a current physical exam and negative TB skin test. These services are 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. 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. In addition, those who seek the special education endorsement must complete the emphasis courses with a grade of "C" or higher to obtain an institutional recommendation for special education.

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. 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.

Oral and Written Communication Skills (9 credits):

- | | |
|--|---|
| Select one course from GER Oral Communication List | 3 |
| Select two courses from GER Written Communication List | 6 |

Lifetime Wellness (2 Credits):

- | | | |
|---------|--|---|
| PE A145 | Principles of Health and Physical Activity | 2 |
|---------|--|---|

Liberal Studies Integrative Core (9 credits):

- | | | |
|----------------|----------------------------------|---|
| PHIL/LSIC A231 | Truth, Beauty, and Goodness | 3 |
| LSIC A331 | Power, Authority, and Governance | 3 |
| LSIC A332 | Science, Technology, and Culture | 3 |

Liberal Studies Integrated Sciences Core (16 credits):

- | | | |
|-----------|------------------------|---|
| LSIS A101 | Discoveries in Science | 1 |
|-----------|------------------------|---|

- | | | |
|-----------|---|---|
| LSIS A102 | Origins: Earth-Solar System-Life | 5 |
| LSIS A201 | Life on Earth | 5 |
| LSIS A202 | Concepts and Processes:
Natural Sciences | 5 |

Mathematical Skills (9-13 credits):

- | | | |
|-----------|---|-----|
| MATH A205 | Communicating Mathematical Ideas | 3 |
| AS A252 | Elementary Statistics (3)
or | 3-4 |
| AS A253 | Applied Statistics for the Sciences (4) | |
| MATH A107 | College Algebra (4)
or | 3-6 |
| MATH A108 | Trigonometry (3)
or | |
| MATH A109 | Precalculus (6)
or | |
| MATH A200 | Calculus I (4)
or | |
| MATH A201 | Calculus II (4) | |

Liberal Studies Humanities Core (12 - 20 credits):

- | | | |
|-----------|--|-----|
| HUM A211 | Introduction to Humanities I | 3 |
| HUM A212 | Introduction to Humanities II | 3 |
| ENGL A201 | Masterpieces of World Literature I (3)
or | 3 |
| ENGL A202 | Masterpieces of World Literature II (3) | |
| | Select one course from GER Fine Arts List | 3 |
| | Two semester sequence of one language* | 0/8 |

*Any language other than English (may be waived if fluency in a language other than English can be demonstrated or if grades of "C" or higher were received in 4 years of one language completed in high school).

Liberal Studies Social Sciences Core (22 credits):

- | | | |
|-----------|--|---|
| ANTH A250 | Rise of Civilization* | 3 |
| HIST A355 | Major Themes in U.S. History | 3 |
| HIST A341 | History of Alaska (3)*
or | 3 |
| ANTH 200 | Natives of Alaska (3)* | |
| LSSS A111 | Cultural Foundations of Human Behavior | 3 |
| LSSS A311 | People, Places, and Ecosystems | 3 |
| LSSS A312 | Individuals, Groups, and Institutions | 3 |
| PSY A245 | Child Development | 3 |
| PSY A245L | Child Development Lab | 1 |

* GER Social Sciences must be selected from two different disciplines.

D. MAJOR REQUIREMENTS

It is recommended that students complete ED A101 Introduction to Education prior to enrolling in the following major courses. Field experience in public schools required as part of most courses.

1. Complete the following core courses (14 credits):

- | | | |
|-----------|--|---|
| ED A300 | Philosophical & Social Context of American Education | 3 |
| ED A301 | Foundations of Literacy and Language Development | 3 |
| ED A302 | Foundations of Educational Technology | 2 |
| ED A303 | Foundations of Teaching and Learning | 3 |
| EDSE A482 | Inclusive Classrooms for All Children | 3 |

2. Complete the following method courses. Concurrent enrollment in an internship required. See Admission to Elementary Internship. (20 credits):

ED A425	Teaching Reading in Elementary Schools	4
ED A426	Teaching Mathematics in Elementary Schools	3
ED A427	Teaching Social Studies in Elementary Schools	2
ED A428	Teaching Science in Elementary Schools	2
ED A429	Teaching Health Education in Elementary Schools	2
ED A430	Teaching Language Arts in Elementary Schools	3
ED A431	Creative Expression: Music, Art, and Drama for Elementary Teachers	3
ED A432	Physical Education for Elementary Classroom Teachers	1
3. Complete the following internships (9 credits):

ED A495A	Internship I	3
ED A495B	Internship II (6)	6

 or
 EDSE A495A Internship in Special Education (6)*

* Candidate must enroll in EDSE A495A if completing the Special Education Emphasis.

4. A total of 122 - 134 credits is required for the degree, of which 42 credits must be upper division.

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.
4. Passing scores on the Praxis I and Praxis II exams.
5. College of Education's educational technology assessment satisfactorily completed.
6. Internships satisfactorily completed.
7. Baccalaureate degree conferred.

SPECIAL EDUCATION EMPHASIS

<http://sped.uaa.alaska.edu/>

This program is currently under revision. Contact 786-6317 for further information.

The Special Education Emphasis is designed for individuals who desire initial professional preparation in special education. The program must be taken in conjunction with the Bachelor of Arts in Elementary Education or the Elementary Teacher Certification Only. Candidates who successfully complete the B.A. in Elementary Education or the Elementary Teacher Certification Only with the Special Education Emphasis will receive an institutional recommendation for a Type A teacher certification with endorsements in elementary (K-6) and special education (K-6).

1. Requirements for the Bachelor of Arts in Elementary Education degree must be completed in conjunction with the emphasis courses. While the special education endorsement is 24 credits, candidates will need to complete only 15 credits beyond the elementary education program requirements to receive the additional endorsement.

2. Complete the following emphasis courses (24 credits):
Field experience in public schools or other approved settings required as part of each course.

EDSE A412	Curriculum & Strategies I: Low Incidence	3
EDSE A482	Inclusive Classrooms for All Children	3
EDSE A483	Language & Literacy: Assessment & Interventions	3
EDSE A484	Collaboration & Partnerships between Parents & Professionals	3
EDSE A410	Assessing Students with Disabilities	3
EDSE A422	Curriculum & Strategies II: High Incidence	3
EDSE A495A	Internship in Special Education	6

INSTITUTIONAL RECOMMENDATION - SPECIAL EDUCATION

ENDORSEMENT

Following are the requirements for an institutional recommendation:

1. Emphasis courses completed with a grade of "C" or higher.
2. Cumulative GPA of 3.00 in the Special Education Emphasis courses.
3. Internships satisfactorily completed.
4. Baccalaureate degree with the emphasis conferred.
5. Concurrent application for the Type A teaching certificate.

ELEMENTARY TEACHER CERTIFICATION ONLY-UNDERGRADUATE

Those individuals who already have a baccalaureate degree may obtain Elementary Teacher Certification Only by completing the following requirements.

Admission to the University of Alaska Anchorage: Elementary Teacher Certification Only

Applicants must complete the Baccalaureate Degree Programs Admission Requirements (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 Teacher Certification Only

Admission to the Department of Teaching and Learning is a prerequisite for all education course work with the exceptions of ED A101 Introduction to Education and ED A300 Philosophical and Social Context of American Education. In order to be admitted to the Department of Teaching and Learning as an Elementary Teacher Certification Only candidate, applicants must meet the following requirements:

1. Complete a Department of Teaching and Learning application for admission to the Elementary Teacher Certification Only program by one of the following dates: March 1, August 1, or November 1.
2. Have a cumulative GPA of 3.00 for the baccalaureate degree.
3. Successfully complete the Praxis I exam and Praxis II: Elementary Content Knowledge exam. With the exceptions of ED A101 Introduction to Education and ED A300 Philosophical and Social Context of American Education, students may not enroll in education courses without passing these exams at the level established by the College of Education.
4. Provide evidence of a current negative TB skin test. Free tests are available at the UAA Student Health Center for current UAA students.

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 Methods and 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 Teacher Certification Only candidate.
2. Submit an application form for admission to internship by February 20.
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 a baccalaureate degree and a passing score on Praxis II: Elementary Content Knowledge.
5. Provide evidence of successful experiences working with children.
6. Interview, if necessary.
7. Initiate fingerprinting and criminal background check process.
8. Provide evidence of current physical exam and negative TB skin test. These services are available free at the UAA Student Health Center.
9. Maintain student 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.

Elementary Teacher Certification Only - Course Requirements

It is recommended that candidates complete ED A101 Introduction to Education prior to enrolling in a 300-level education course. Field experience in public schools required as part of most courses.

1. Complete the following prerequisite course work (7 credits)

PSY A245	Child Development	3
PSY A245L	Child Development Lab	1
MATH A205	Communicating Mathematical Ideas	3
2. Complete the following core courses (12-14 credits):

ED A300	Philosophical & Social Context of American Education	3
ED A301	Foundations of Literacy and Language Development	3
ED A302	Foundations of Educational Technology	2
ED A303	Foundations of Teaching and Learning	3
EDSE A482	Inclusive Classrooms for All Children	3
3. Complete the following method courses. Concurrent enrollment in an internship required. See Admission to Elementary Internship (20 credits):

ED A425	Teaching Reading in Elementary Schools	4
ED A426	Teaching Math in Elementary Schools	3
ED A427	Teaching Social Studies in Elementary Schools	2
ED A428	Teaching Science in Elementary Schools	2
ED A429	Teaching Health Education in Elementary Schools	2
ED A430	Teaching Language Arts in Elementary Schools	3
ED A431	Creative Expression: Music, Art and Drama for Elementary Classroom Teachers	3
ED A432	Physical Education for Elementary Classroom Teachers	1

4. Complete the following internships (9 credits):

ED A495A	Internship I	3
ED A495B	Internship II	6

INSTITUTIONAL RECOMMENDATION - ELEMENTARY TEACHER CERTIFICATION (K-6)

Following are the requirements for an institutional recommendation:

1. Certification courses completed with a grade of "C" or higher.
2. Cumulative GPA of 3.0 in the Elementary Teacher Certification Only courses.
3. Passing scores on the Praxis I and II exams.
4. College of Education's educational technology assessment satisfactorily completed.
5. Internships satisfactorily completed.

FACULTY

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COLLEGE OF HEALTH AND SOCIAL WELFARE

The College of Health and Social Welfare is comprised of the Department of Health Sciences, Human Services, the Justice Center, School of Nursing and the School of Social Work. 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 Center for Rural Health, and the Institute for Circumpolar Health Studies. 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.

DEPARTMENT OF HEALTH SCIENCES

<http://hs.uaa.alaska.edu/dept/>

Diplomacy Building (DPL), Room 404, (907)786-6565

BACHELOR OF SCIENCE, HEALTH SCIENCES

Physician Assistant Track

The Bachelor of Science in Health Sciences Degree (BSHS), with a Physician Assistant Track is available to 1) applicants with professional health care experience (a minimum of two (2) years recent, full-time, hands on experience in the direct delivery of medical care OR current professional credentials and two (2) or more years of recent, full-time experience in an allied health field) seeking a new career as a Physician Assistant (PA), 2) applicants without health care experience seeking a bachelor's degree while they gain the full-time health care work experience required for admission to the MEDEX Northwest Physician Assistant Program, 3) Alaskan MEDEX Northwest Physician Assistant Program students seeking a bachelor's degree in conjunction with their MEDEX PA certificate, 4) MEDEX Northwest Physician Assistant Program graduates seeking a bachelor's degree, and 5) graduates of other accredited PA programs seeking a bachelor's degree. The BSHS degree offers students more career opportunities such as administrative or teaching positions and is a gateway for advanced degrees such as a Master of Public Health. These advanced degrees allow a Physician Assistant to expand career options and increase professional satisfaction.

Physician Assistant Students Enrolled at MEDEX

The BSHS Degree, with a Physician Assistant Track may be awarded in conjunction with the MEDEX Program at the University of Washington. Students are admitted at both UAA and UW and must satisfactorily complete PA courses at UW in their junior year and Clerkship courses at UAA in their senior year.

MEDEX Northwest Physician Assistant Program

Up to six students from Alaska may be admitted to the University of Washington 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.

Students admitted into the MEDEX program spend their junior year of the PA program at one of the UW training sites (Seattle, Spokane or Yakima), where they receive intense clinical and didactic instruction. The senior year is spent in Alaska, consisting of practicum (Clerkship) placement. It is recommended that PA students complete the UAA BSHS General Education Requirements as early as possible. The practicum year corresponds to UW's year of field placement and supervision, beginning in September and ending 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. Students are placed in Alaska training sites currently utilized by the MEDEX program.

At the completion of the 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 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/medical/som/depts/medex

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.

Students without health care experience should note that admission to the MEDEX program requires a minimum of two (2) 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 contact:

www.washington.edu/medical/som/depts/medex/admissions

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 program, students must:

1. have received formal notification of admission to the MEDEX program or have graduated from an accredited PA program
2. complete a Change of Major form requesting a change of admission status from pre-major to full major.

PHYSICIAN ASSISTANTS ADMISSION

Students who have graduated from the MEDEX program or another accredited PA program must meet the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter and must submit official transcripts and official documentation of successful PA program completion.

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 the MEDEX program will be removed from the BSHS program.

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 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.

NOTE: Students seeking admission to the MEDEX program must take ENGL A111, ENGL A212, BIOL A111/L, BIOL A112/L and CHEM A103/L or BIOL A102 or BIOL A240. PSY A111 or PSY A150 is also highly recommended. (The MEDEX program requires a minimum grade of B- in each course applied toward the UW admission requirements.)

C. MAJOR REQUIREMENTS

1. Complete the following course (3 credits):

HS A490	Selected Topics: Health Care
	Issues in Alaska (1-6)

3

2. MEDEX students concurrently admitted to the BSHS degree program at UAA and the UW MEDEX program must complete the following (48 credits):

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 are required for the degree, of which 42 must be upper division.

FACULTY

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HUMAN SERVICES

<http://hums.uaa.alaska.edu>

Beatrice McDonald Hall (BMH), Room 106, (907) 786-6437

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, the preparation of students to work effectively in any paraprofessional counseling and human service practice. 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 course work 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 first hand experience in their desired specialty.

An important part of the program is Human Services advising. Prospective students should contact a Human Services advisor before entering the program. Students enrolled in the introductory courses are assigned an academic advisor. Entrance into the Human Services Practicum requires the recommendation of the advisor. Contact the Human Services Department at 786-6437 for an appointment with an advisor.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE, CONFLICT RESOLUTION

The nontranscripted Conflict Resolution department certificate provides students the opportunity to acquire skills used in various conflict resolution methods used in human service agencies. The 15 credit program provides a balanced education in Family Mediation,

Alternative Dispute Resolution, Paraprofessional Counseling and Group Facilitation. Instruction is delivered through classroom lectures and demonstrations.

CERTIFICATE REQUIREMENTS

- Complete the following required courses

HUMS A140	Family Mediation	3
HUMS A223	Introduction to Paraprofessional Counseling I	3
HUMS A324	Introduction to Paraprofessional Counseling II	3
HUMS A333	Alternative Dispute Resolution	3
HUMS A434	Group Facilitation for Human Service Professionals	3
- A total of 15 credits are required for the nontranscripted departmental certificate of completion.

ASSOCIATE OF APPLIED SCIENCE, HUMAN SERVICES

ADMISSION REQUIREMENTS

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, "Academic Standards and Regulations."

GENERAL UNIVERSITY REQUIREMENTS

- Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
- Complete the Associate of Applied Science General Degree Requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

- Complete the following required courses (29 credits):

ANTH A200	Natives of Alaska (3)	3
	or	
ANTH A202	Cultural Anthropology (3)	
HUMS A101	Introduction to Human Services	3
HUMS/SWK A106	Introduction to Social Welfare	3
HUMS A223	Introduction to Paraprofessional Counseling I	3
HUMS A295A	Human Services Practicum I	4
HUMS A295B	Human Services Practicum II	4
HUMS A324	Introduction to Paraprofessional Counseling II	3
PSY A111	General Psychology	3
PSY A150	Life Span Development	3
- Complete 6 credits from one of the emphasis areas: 6

Note: Each Human Services degree (Associate of Applied Science and Bachelor of Human Services) requires a 6 credit emphasis area.

Selected courses may only be used in one emphasis area.

General Human Services Emphasis

- Complete 6 credits from the following: 6
- | | | |
|---------------|--|--|
| HUMS A140 | Family Mediation (3) | |
| HUMS/PSY A153 | Human Relations (3) | |
| HUMS A256 | Groups and Organizations (3) | |
| HUMS A350 | Men and Masculinity (3) | |
| PSY A245 | Child Development (3) | |
| PSY A261 | Research Methods in Psychology (4) | |
| PSY A345 | Abnormal Psychology (3) | |
| SOC A202 | The Social Organization of Society (3) | |
| SOC A242 | An Introduction to Marriage, Family and Intimate Relationships (3) | |
| SOC A246 | Adolescence (3) | |
| SOC/PSY A453 | Application of Statistics to the Social Sciences (3) | |

Substance Abuse Emphasis

- Complete 6 credits from the following: 6
- | | | |
|-----------|--|--|
| HUMS A122 | Substance Abuse as a Contemporary Problem (3) | |
| HUMS A123 | Public Education and Prevention in Substance Abuse (3) | |
| HUMS A124 | Introduction to Physiology and Pharmacology of Substance Abuse (3) | |
| HUMS A226 | Intervention Continuum in Substance Abuse Counseling (3) | |
| HUMS A416 | Substance Abuse and the Older Adult (3) | |
| HS A350 | Drugs and Drug-Taking Behavior (3) | |
| HS A381 | Substance Abuse Treatment (3) | |
| SWK A471 | Addictions and Social Work (3) | |

Family and Youth Emphasis

- Complete 6 credits from the following: 6
- | | | |
|-----------|--|--|
| HUMS A140 | Family Mediation (3) | |
| HUMS A231 | Applied Behavioral Analysis I (2) | |
| HUMS A232 | Applied Behavioral Analysis II (2) | |
| 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: 6
- | | | |
|-----------|------------------------------------|--|
| ASL A101 | Elementary Sign Language I (3) | |
| ASL A102 | Elementary Sign Language II (3) | |
| ASL A201 | Intermediate Sign Language I (3) | |
| HUMS A231 | Applied Behavioral Analysis I (2) | |
| HUMS A232 | Applied Behavioral Analysis II (2) | |
| PSY A445 | Strategies of Behavior Change (3) | |
| PSY A455 | Best Practices-Mental Health (3) | |

Diversity Issues Emphasis

- Complete 6 credit from the following: 6
- | | | |
|-----------|--|--|
| AKNS A101 | Alaska Native Languages I (4) | |
| AKNS A102 | Alaska Native languages II (4) | |
| AKNS A109 | Alaska Native Language Orthography (4) | |
| AKNS A201 | 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 (3) | |
- Choose 16 credits of electives. Consultation with faculty advisor recommended. 16
 - A total of 60 credits is required for the degree.

BACHELOR OF HUMAN SERVICES

ADMISSION REQUIREMENTS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, "Academic Standards and Regulations." Students must complete an Associate of Applied Science, Human Services degree from an accredited institution recognized by UAA.

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 Bachelor of Human Services core requirements (35 credits):*

HUMS A321	Diversity Issues in Human Services Practice	3
HUMS A322	Service Coordination in Human Services Practice	3
HUMS A333	Alternative Dispute Resolution	3
HUMS A412	Ethical Issues in Human Services Practice	3
HUMS A414	Rural Treatment Strategies for Human Service Professionals	3
HUMS A417	Substance Abuse Counseling for Human Service Professionals	3
HUMS A424	Advanced Counseling for Human Service Professionals	3
HUMS A434	Group Facilitation for Human Service Professionals	3
HUMS A461	Crisis Intervention	3
HUMS A462	Human Services Practicum III	4
HUMS A463	Human Services Practicum IV	4

*Note: Can not be used in emphasis areas.

2. Complete an additional 6 credits (to total 12 credits) from the AAS Major Requirements Emphasis Areas.

****NOTE:** Each Human Service degree (Associate of Applied Science and Bachelor of Human Services) requires a 6 credit emphasis area. Students may complete 6 credits from a different emphasis area or an additional 6 credits from the emphasis area used for the AAS.

3. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

MINOR, ADDICTION STUDIES

The Addiction Studies Minor, coordinated by the Human Services Department, provides students with the opportunity to gain knowledge about the process and effects of addictive behaviors, and their treatment. By providing students with contemporary information, and an opportunity to select from an array of courses that meet their professional interests and goals, the minor prepares students for entry-level positions in treatment programs, substance abuse agencies, or for graduate study in this or related areas. The minor also enhances the capabilities of students in human service fields, such as human services, social work, nursing, justice, and psychology, to acquire knowledge about substance abuse, a major factor in many human dilemmas. Course work may also apply toward certification from the State of Alaska as a substance abuse counselor. Please note that additional course work and practicum hours may be required for this certification.

The Addiction Studies minor requires a total of 18 credits, of which a minimum of nine must be upper-division.

- Complete 6 credits from the following courses: 6

HS A350	Drugs and Drug-Taking Behavior (3)
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: 12

HS A381	Substance Abuse Treatment (3)
HS A480	Contemporary Issues in Addiction Studies (1-3)
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.

FACULTY

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 Laura Kelley, Professor, AFLWK@uaa.alaska.edu
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JUSTICE

<http://justice.uaa.alaska.edu>
 Social Sciences Building (SSB), Room 306, (907) 786-1810

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 provided 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.

For those who wish to further their education in the justice area, the Justice Center offers a Criminal Justice emphasis in the Master of Public Administration degree. Refer to Chapter 10 for more information.

JUSTICE RESEARCH HONORS

The Justice Center recognizes those undergraduate students who develop exceptional social science research skills by awarding them Justice Research Honors and noting the award on their permanent university transcript. Students majoring in Justice are eligible to graduate with Justice Research Honors upon satisfactory completion of all of the following requirements:

- Meet the requirements for a BA degree in Justice.
- Meet the requirements for membership in the national justice honor society, Alpha Phi Sigma (including, 3.2 gpa in UAA Justice Courses, 3.0 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 Enrollment Services Office.

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 (45 credits):

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 A251	Criminology	3
JUST A330	Justice and Society	3
JUST A360	Justice Processes	3
*Upper-division Justice electives		15
*Justice electives, any level		6
- *Paralegal Studies Certificate courses can be counted as Justice electives.
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 Exam. 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 A251	Criminology	3
	Upper-division Justice electives	9
	Justice electives, any level	3

FACULTY

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 Andre Rosay, Assistant Professor, AFABR@uaa.alaska.edu
 Lawrence Trostle, Associate Professor, AFLCT@uaa.alaska.edu
 Darryl Wood, Associate Professor, AFDSW@uaa.alaska.edu

PARALEGAL STUDIES

<http://justice.uaa.alaska.edu>

Social Sciences Building (SSB), Room 306, (907) 786-1810

CERTIFICATE, PARALEGAL STUDIES

The Paralegal 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 six 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.

Special admission requirements or 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 Applied Studies 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 following required core courses (31 credits):

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 A352	Substantive Criminal Law (3)	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 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 policy.
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 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.

FACULTY

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SCHOOL OF NURSING

<http://nursing.uaa.alaska.edu/>

Professional Studies Building (PSB), Room 103, (907) 786-4550

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. 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.

Advising sessions are available to interested students. Times and locations are recorded on (907) 786-4560.

CERTIFICATE, PRACTICAL NURSING

Graduates of the Practical Nursing Certificate Program are prepared to provide basic nursing care in structured care settings under the supervision of a registered nurse or other authorized licensed health provider. Students acquire theoretical concepts by completing a series of computer based lessons, coupled with weekly class discussions; simultaneously, clinical learning experiences under the direct supervision of faculty, reinforce theoretical learning and facilitate development of clinical skills relevant to the legal scope of practice of the practical nurse. Graduates are eligible to sit for the national practical nurse licensing examination (NCLEX-PN) and are prepared for initial employment in hospitals, clinics, and long-term care settings.

ADMISSION REQUIREMENTS

Satisfy the Admission to Certificate Requirements in Chapter 7, "Academic Standards and Regulations."

Students may complete the Practical Nursing Certificate in one calendar year of full time study. Admission is competitive and is based on consideration of high school grade point average,

assessment scores in reading and mathematics on an approved placement test, and prior experience in health care. Students are encouraged to submit application to the University and complete placement testing by June to ensure complete processing by October 1. In order to have a student file ranked for possible admission to the Practical Nursing Certificate Program, the following items must be submitted or completed by October 1:

1. UAA Application for Admission, including transcripts from high school or GED and from prior college work;
2. Appropriate Reading score on a UAA approved placement test;
3. Appropriate Math score on a UAA approved placement test ;
4. Documented advising meeting with a member of the practical nurse program faculty (can be completed by phone or in person);
5. Completed School of Nursing application;
6. Three letters of reference mailed directly by the writer to the Practical Nursing Certificate Program.

Once admitted to the Practical Nursing Certificate program, students are required to provide the following before actually beginning clinical course work:

1. Immunity to rubella and rubeola, confirmed by titer;
2. Immunity to Hepatitis B, confirmed by titer or documentation to having received first immunization in the three-shot series (and second immunization if sufficient time since first has passed); students are required to complete the immunization series on schedule during the program;
3. Documentation of having completed first Hepatitis A immunization in the two-shot series (series must be completed on schedule during the program);
4. Freedom from active tuberculosis, documented by negative PPD skin test or by health exam by a nurse practitioner, physician, or physician assistant (PPD must be repeated annually and must be repeated prior to the start of any term if it would expire during the course of that term);
5. Documentation of having had an HIV test; results should not be provided to the School of Nursing (required annually; must be repeated prior to start of any term in which the annual review would normally expire);
6. Results of a national level criminal background check completed within the six months prior to the start of clinical courses;
7. Current Health Provider Certification in Cardiopulmonary Resuscitation for infants, children, and adults; must be current through the semester and must be repeated prior to start of any term during which certification expires;
8. Professional liability insurance in the amount of \$1 million/\$3 million; insurance must be maintained throughout duration of the program. Specific information regarding acceptable professional liability insurance policies may be obtained directly from the Program.

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 experience; students who are injured while completing clinical assignments are responsible for all associated medical costs. Students are strongly encouraged to maintain personal medical insurance.

ACADEMIC PROGRESS

In order to progress in the Practical Nursing Certificate program, students must earn a satisfactory grade (C or higher or P) in all required courses. A student who is unable to earn a satisfactory grade

in a required course during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space-available basis. Students who are enrolled in one course must be concurrently enrolled in all courses with that common number (NUPN A101 and NUPN A101L; NUPN A110 and NUPN A110L; NUPN A112 and NUPN A112L; NUPN A113 and NUPN A113L). The three term clinical sequence must be completed within two years; students who have a progression delay or more than one year will be required to demonstrate current knowledge and clinical competence.

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Certificates located at the beginning of this Chapter.

MAJOR REQUIREMENTS:

1. Complete the following required courses:

NUPN A101	Fundamental Concepts and Skills for Practical Nursing	7
NUPN A101L	Fundamental Concepts and Skills for Practical Nursing Lab	5
NUPN A105	Human Anatomy and Function (3)	3/8
	or	
BIOL A111	Human Anatomy and Physiology I (4)	
BIOL A112	Human Anatomy and Physiology II (4)	
	with grade of C or higher	
NUPN A110	Adult Medical-Surgical Nursing for Practical Nurses	5
NUPN A110L	Adult Medical-Surgical Nursing for Practical Nurses Lab	3
NUPN A112	Mother-Baby Nursing for Practical Nurses	3
NUPN A112L	Mother-Baby Nursing for Practical Nurses Lab	2
NUPN A113	Nursing of Children for Practical Nurses	3
NUPN A113L	Nursing of Children for Practical Nurses Lab	2
NUPN A115	Concepts in Mental Health for Practical Nurses	1
NUPN A116	Role Transition to LPN	1
NUPN A118L	Integrated Clinical Practicum for Practical Nurses	2
2. A total of 37 credits is required for the certificate.

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 Enrollment Services, 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 2.00 "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 Counseling (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 actually beginning clinical course work:

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 ten years (with booster required at the time of expiration);
 - e. freedom from active tuberculosis, documented annually by negative PPD skin test or by health exam 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 3rd 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
DN A203	Normal Nutrition	3
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	2
NURS A220L	Perinatal Nursing Lab	2
NURS A221	Advanced Parenteral Therapy Lab	1
NURS A222	Pediatric Nursing	2
NURS A222L	Pediatric Nursing Lab	2
NURS A225	Adult Nursing II	3
NURS A225L	Adult Nursing II Lab	3
NURS A250	Psychiatric Nursing	2
NURS A250L	Psychiatric Nursing Lab	2
NURS A255	Staff Nurse: Legal, Ethical, and Organizational Issues	1
PSY A150	Life Span Development	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 1st:

1. UAA Certificate of Admission from Enrollment Services, 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" (2.00) or higher: Algebra, Biology with laboratory, and Chemistry with laboratory. Students may use courses equivalent to the following UAA courses in lieu of work at the high school level: MATH A055 (Algebra), BIOL A102 and A103 (Biology) and CHEM A055 (Chemistry).
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 Life Span 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 30th. Once admitted to the associate degree clinical courses, students are required to provide documentation of health, CPR, and liability insurance before actually beginning clinical course work.

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 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 ten years (with booster required at the time of expiration);
 - e. freedom from active tuberculosis, documented annually by negative PPD skin test or by health exam 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 (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.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees.
2. Complete the Associate of Applied Science General Degree Requirements (15 credits). At least 3 of the 6 credits of general requirements must be earned in a social science course.

MAJOR REQUIREMENTS

Within the LPN Option, licensed practical nurse students returning to school to complete the AAS degree in nursing will be in either the LPN Challenge track or the Direct Articulation track.

LPN Challenge Examination Track: Any LPN who graduated more than ten (10) years before date of application to complete the AAS degree in nursing will utilize this track. This track enables LPNs to receive university credit previously learned knowledge and skills through an examination process.

1. Complete the following support courses:

BIOL A111	Human Anatomy & Physiology I	4
BIOL A112	Human Anatomy & Physiology II	4
BIOL A240	Introductory Microbiology for Health Sciences	4
DN A203	Normal Nutrition	3
PSY A150	Life Span Development	3
2. Earn credit in the following courses by exam:

NURS A120	Nursing Fundamentals	3
NURS A120L	Nursing Fundamentals Lab	4
3. Complete the following courses by exam or enrollment (* indicates those courses in which exam for credit is available)

*NURS A125	Adult Nursing I	3
*NURS A125L	Adult Nursing I Lab	4
*NURS A180	Basic Nursing Pharmacology	3
NURS A220	Perinatal Nursing	2
NURS A220L	Perinatal Nursing Laboratory	2
NURS A221	Advanced Parenteral Therapy Lab	1
NURS A222	Pediatric Nursing	2
NURS A222L	Pediatric Nursing Lab	2
NURS A225	Adult Nursing II	3
NURS A225L	Adult Nursing II Lab	3
NURS A250	Psychiatric Nursing	2
NURS A250L	Psychiatric Nursing Lab	2
NURS A255	Staff Nurse: Legal, Ethical, and Organizational Issues	1
4. A total of 70 credits is required for the degree.

LPN Direct Articulation Track: Licensed practical nurse students who graduated within the past ten (10) years are eligible for the LPN Direct Articulation track. If the LPN student graduated within the last three (3) years, the student must also document 1,000 hours of work experience. This track enables the LPN to enter NURS A125/A125L of the AAS nursing program without using the challenge process. Upon successful completion of NURS A125 with a "C" or higher grade, and NURS A125L with a "pass," the student would be granted UAA course credits for NURS A120 and NURS A120L, for a total of 7 credits. To receive credit, the student must complete the appropriate form and pay an administrative fee per UAA policy. (NOTE: Any direct articulation LPN student not passing NURS A125/125L would not receive credit for NURS A120/120L, and would need to take these courses to continue toward the AAS degree in nursing).

1. Complete the following required courses:

BIOL A111	Human Anatomy & Physiology I	4
BIOL A112	Human Anatomy & Physiology II	4
BIOL A240	Introductory Microbiology for Health Sciences	4
DN A203	Normal Nutrition	3
PSY A150	Life Span Development	3
NURS A180	Basic Nursing Pharmacology	3
NURS A220	Perinatal Nursing	2
NURS A220L	Perinatal Nursing Lab	2
NURS A221	Advanced Parenteral Therapy Lab	1
NURS A222	Pediatric Nursing	2
NURS A222L	Pediatric Nursing Lab	2
NURS A225	Adult Nursing II	3
NURS A225L	Adult Nursing II Lab	3
NURS A250	Psychiatric Nursing	2
NURS A250L	Psychiatric Nursing Lab	2
NURS A255	Staff Nurse: Legal, Ethical, and Organizational Issues	1
2. Complete electives to total 70 credits. 6
3. A total of 70 credits is required for the degree.

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 plan, 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.
3. Earning a grade point average of 3.5 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.
 - c. Obtaining approval to enroll in the Honors Electives from the Baccalaureate Chair and Baccalaureate Curriculum Committee prior to enrolling for first semester senior year classes.
5. Satisfactorily completing the 2 Honors Electives* courses during the senior year of the Baccalaureate Nursing Program.

NS A440	Nursing Honors I - Project Exploration
NS A441	Nursing Honors II - Project Implementation

*These courses satisfy the required 3 hours of nursing electives in the Baccalaureate Nursing Program.

BASIC STUDENT OPTION

ADMISSION REQUIREMENTS

Students who apply to the baccalaureate nursing major and who qualify for admission to baccalaureate nursing majors are admitted as pre-nursing majors. Admission 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 #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 Enrollment Services.
 2. Advising sessions with Coordinator of Student Affairs. The student attends a group advising session (call (907) 786-4560 for pre-recorded information on group advising session).
 3. An extracted minimum grade point average of 2.70 for courses required for the Bachelor of Science, Nursing Science. The GPA is calculated using grades from all 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 (34 credits):

BIOL A111 and A112	8
CHEM A103 and A104	8
ENGL A111 and A213	6
ENGL A120, PHIL A101, PHIL A201, or PSY A150	3
Oral Communication Requirement	3
General Education Requirement	3
PSY or SOC General Education Course	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	4
PSY A150 or one of the following:	3
ENGL A120, PHIL A101, or PHIL A201	
ANTH or ECON General Education Requirement	3
General Education Requirement	6

7. Application to the Baccalaureate Nursing Major. After completion of the first semester or 34 credits, as outlined in #5, and during enrollment in courses outlined in #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.
8. School of Nursing Application and Confidential Required Information form on file in the School.
9. Three letters of reference.
10. A current Plan of Study signed by the Coordinator of Student Affairs on file with the School of Nursing.
11. 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.
12. 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).

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 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 student, documentation of immunity by titer is required prior to entry into second year courses);
 - c. diphtheria/tetanus vaccination within the last ten years (booster required at time of expiration);
 - d. freedom from active tuberculosis, documented annually by negative PPD skin test or by health exam by a nurse practitioner, physician, or physician's assistant.*
 - e. immunity to chicken pox confirmed by health history, titer, or immunization;
 - f. documentation of having had a test for HIV 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 A401L; 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 Bachelor of Science, 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:

AS A252	Elementary Statistics (3)	3
	or	
AS A307	Probability and Statistics (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	4
*CHEM A104/L	Introduction to Organic Chemistry and Biochemistry	4
*DN A203	Normal Nutrition	3
*Reasoning Skills:**		3
ENGL A120, or PHIL A101, or PHIL A201		
*ENGL A213	Writing in the Social and Natural Sciences	3
PHIL A302	Biomedical Ethics	3
*PSY A150**	Life Span Development	3
PSY or SOC General Education Course		3
**ANTH or ECON General Education Requirement		3

***Must be in addition to the required General Education Requirements.*

2. Nursing Courses: Complete required nursing courses for the Nursing Science major (63 credits).

NS A204	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	Nursing Research	3
NS A401	Health Disruptions II	2
NS A401L	Health Disruptions II Lab	3
NS A406	Complex Care	2
NS A406L	Complex Care Lab	2
NS A411	Health II: Nursing Therapeutics	3
NS A411L	Health II: Nursing Therapeutics Lab	3
NS A415	Nursing Management	4
NS A416	Concentration in Clinical Nursing	.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 the first RN course, NS A308. The deadline for RN admission is once a year in the fall semester by October 1. 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 Enrollment Services.
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. 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 is calculated using grades from all courses that are required for the nursing major and 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		4
CHEM A103/L	4	
ENGL A111		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 Written Communication (GER) course must be completed to total 6 credits. For transfer students, grades from equivalent courses will be substituted.
7. Students must be enrolled in, or have credit for each of the following courses at the time of application to the major. Students must be achieving a "C" in the specified courses for the major when admission is sought and maintain a minimum 2.00 grade point average until beginning nursing courses.

BIOL A112		4
CHEM A104/L		4
ENGL A120, PHIL A101, or PHIL A201		3
ENGL A213		3
8. A School of Nursing 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:

NS A305/305L Health Assessment of Individuals/Lab		3
Nursing electives for which prerequisites have been met		6

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 (44 credits). All support courses must be completed with a grade of "C" or better prior to admission to 300-level clinical nursing courses:

AS A252	Elementary Statistics (3)	3
	or	
AS A307	Probability and Statistics (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/Lab	4

CHEM A104/L	Introduction to Organic Chemistry and Biochemistry/Lab	4
DN A203	Normal Nutrition	3
Reasoning Skills:*	3	
ENGL A120, or PHIL A101, or PHIL A201		
ENGL A213	Writing in the Social and Natural Sciences	3
PHIL A302	Biomedical Ethics	3
PSY A150*	Life Span Development	3
ANTH or ECON*	General Education Requirement	3
PSY or SOC	General Education Requirement	3

*Must be in addition to the required General Education Requirements.

RN Licensure Credit

An accepted, degree seeking UAA nursing student who has successfully passed the National Council Licensing Exam (NCLEX) and has current RN licensure in the State of Alaska may be granted the following UAA course credits upon completion of NS A406 with a grade of "C" or better, and NS A406L with a "Pass."

NS A216	Pathophysiology	4
NS A309	Pharmacology	3
NS A303	Foundations of Nursing I	3
NS A303L	Foundations of Nursing I Lab	5
NS A313	Health Disruptions I	3
NS A313L	Health Disruptions I Lab	3
NS A401	Health Disruptions II	3
NS A401L	Health Disruptions II Lab	3

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.

- Nursing courses for academic credit: Complete the following required nursing courses within the Nursing Science major (35 credits with a grade of "C" or better). Courses marked with an asterisk (*) must be completed prior to admission to 400-level clinical nursing courses.

*NS A204	Technology and Nursing Informatics	3
*NS A305	Health Assessment of Individuals	2
*NS A305L	Health Assessment of Individuals Lab	1
*NS A308	Dimensions of Professional Nursing Practice	3
*NS A314	Health I for Registered Nurses	2
*NS A314L	Health I for Registered Nurses Lab	2
NS A400	Nursing Research	3
NS A406	Nursing Therapeutics in Complex Health Disruptions	2
NS A406L	Nursing Therapeutics in Complex Health Disruptions Lab	2
NS A411	Health II: Nursing Therapeutics	3
NS A411L	Health II: Nursing Therapeutics Lab	3
NS A417	Management in Nursing	3
	Nursing electives (upper-division)	6

- Complete elective credits to total 126 credits.
- 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

<http://socialwork.uaa.alaska.edu>

Gordon Hartlieb Hall (GHH), Room 106, (907) 786-6900

The educational purpose of the Bachelor of Social Work 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 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

ADMISSION REQUIREMENTS

Students declare a major and 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 from programs which are not accredited by CSWE.

The School of Social Work reserves the right to deviate from stated policies and rules.

REQUIREMENTS FOR FULL ADMISSION TO THE SOCIAL WORK PROGRAM

To apply for full admission to the Social Work Program, students must complete:

1. General Education Requirements for Baccalaureate Degrees.
2. Additional Liberal Arts Foundation courses. A grade of "C" or better must be earned in all Liberal Arts Foundation courses.
3. The following core Social Work courses with a grade of "C" or better (18 credits): SWK A106, SWK A206, SWK A424, SWK A342, SWK A243 or A343, and SWK A330.

Once the above requirements are met, students must submit the following 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. An autobiographical statement.
3. A Student Practicum Interest sheet.

Students participate in an interview with faculty and community members to jointly assess readiness for SWK A461A/B and readiness to successfully complete remaining program requirements. The School of Social Work will notify applicants of their status by December 1st.

Admission to the Social Work program is based on 1) successful completion of the requirements listed above, 2) demonstration of beginning competence in client-centered communication skills developed in SWK A330, documented in videotaped simulated interviews, and 3) professional judgement of social work faculty.

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.

DEPARTMENTAL HONORS

The Bachelor of Social Work Program recognizes exceptional performance by conferring Departmental Honors in Social Work. The award is noted on the student's permanent transcript. 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 3.5 or higher in upper division (300 and 400 level) social work courses, with an "A" in the following courses:
 - a. SWK A363, Great Books in Social Work (taken in spring of Junior year)
 - b. SWK A463, Social Work Senior Honors Research Project (taken in fall of Senior year)
 - c. SWK A430, Social Work Practice III
 - d. SWK A461B, Social Work Practicum I
 - e. SWK A4631, Social Work Practice IV
 - f. SWK A462B, Social Work Practicum II.
3. Completion of HNRS A310 (Community Service: Theory and Practice); or SWK A243 (Cultural Diversity and Community Services) with a grade of B or higher.
4. Completion of one course in human biology, one course on human development over the lifespan, and one course on applied statistics, with a grade of "C" or higher.
5. Notify the BSW Program Coordinator in writing, on or before the date of submitting the Application for Graduation with the Enrollment Services Office, of the intent to graduate with Departmental Honors.

Successful completion of Departmental Honors in Social Work earns automatic admission into the Master of Social Work Program with Advanced Standing status. Students are responsible for completing a UAA Graduate Application for Admission and notifying the MSW Admissions Committee in writing by January 15th of the year they intend to enroll in the MSW Program.

ACADEMIC PROGRESS

Students in the Social Work program must earn a grade of "C" or better in the required liberal arts and the core 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:

ANTH A200 or A202	3
BA A151 or ECON A201	3

- | | |
|--|-----|
| One of the following: BIOL A102 or A111 or A112,
or A115, or A116 | 3-4 |
| ENGL A311, A312, A313, or A414 | 3 |
| ENGL A120 or PHIL A101 or A201 or A301 or A421 | 3 |
| SOC A101 | 3 |
| PSY A150 | 3 |
2. Complete the following required core courses (48 credits):
- | | |
|---|---|
| SWK/HUMS A106 Introduction to Social Welfare | 3 |
| SWK A206 Introduction to Social Work | 3 |
| SWK A243 Cultural Diversity and Community
Community Services (3) | 3 |
| or | |
| SWK A343 Human Behavior: Diversity and
Discrimination (3) | |
| SWK A330 Social Work Practice I | 3 |
| SWK A331 Social Work Practice II | 3 |
| SWK A342 Human Behavior in the
Social Environment | 3 |
| SWK A406 Social Welfare: Policies and Issues | 3 |
| SWK/SOC A407 Formal Organizations | 3 |
| SWK A424 Social Work Research
with Statistical Application | 3 |
| SWK A430 Social Work Practice III | 3 |
| SWK A431 Social Work Practice IV | 3 |
| SWK A461B Social Work Practicum I | 6 |
| SWK A462B Social Work Practicum II | 6 |
| Upper-division Social Work electives | 6 |
3. Complete electives to total 120 credits.
4. A total of 120 credits is required for the degree, of which 45 must be upper-division.

Note: It is recommended that you take one or two 3-credit electives each semester to bring your 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.

SWK/HUMS A106 Introduction to Social Welfare	3
SWK A206 Introduction to Social Work	3
SWK A243 Cultural Diversity and Community Service (3)	3
or	
SWK A343 Human Behavior: Diversity and Discrimination (3)	
SWK A342 Human Behavior in the Social Environment	3
SWK A406 Social Welfare: Policies and Issues	3
Upper-division Social Work electives	3

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COMMUNITY AND TECHNICAL COLLEGE

The UAA Community and Technical College is a major center for development and delivery of career and technical, community, and continuing education programs. To accomplish this, the College also provides courses to degree seeking students within identified populations at off-campus locations or within time frames designed to make education more accessible, delivers quality continuing education courses to professionals and the community, provides instruction and services for under-prepared and at-risk students, and provides cultural and community service programs.

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. 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 insure that programs are closely linked to the needs of the work force. Graduates of the College generally find immediate employment in their chosen field of study.

Career and technical education training leading to certificates and Associate of Applied Science degrees through the Master's degree are offered in over 20 program areas. In addition, the College delivers statewide programs in Apprenticeship Technologies, Career and Technical Education, the Mining and Petroleum Training Service, and North Pacific Fisheries Observer Training Center.

REGISTRATION

The Community and Technical College offers registration for CTC courses. Additional registration site at the Chugiak-Eagle River Campus at the Eagle Center (907) 694-3313.

ARTICULATION WITH HIGH SCHOOL PROGRAMS

The Community and Technical College has a close and positive working relationship with the Alaska School District that eases the transition from high school to college. Also, 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 Career and Academic Advising Center at 786-6464 or refer to Tech-Prep Program in Chapter 9.

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 course work 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 and non-traditional college students increase academic and critical thinking skills and develop confidence to pursue their life-long learning goals.

The College Preparatory & Developmental Studies Program at UAA combines developmental reading, writing, mathematics, study skills, English-as-a-Second Language (ESL), and college success courses into a single department. We provide instructional support that helps under-prepared students prepare for college level courses. CPDS courses, labs, and tutor services help all students advance to the next academic level.

Developmental English classes are located under the PRPE prefix (Preparatory English) and include individualized labs for reading and writing; and full length semester courses for reading and composition. The College Preparatory & Developmental Studies Department offers English-as-a-Second Language courses that serve as a bridge between classes found in the community and courses offered by the College of Arts and Sciences. Study Skills courses help students master skills and techniques used to succeed in college classrooms and to learn how to benefit from services offered on the University campus.

Developmental Math classes 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 at the student's convenience, and the ability to retake chapter tests. Computer software, videotapes, audiotapes, workshops, web courses, and calculator training are also available.

Interdisciplinary learning communities, such as Smart Start and Step Up, provide collaborative instruction in math, writing, reading, and academic success skills. These classes are team taught by a cadre of developmental educators and tutors. They provide a high degree of support for at-risk students.

Learning labs are computerized and staffed by certified tutors for composition and math and are operated by the department in conjunction with the Learning Resource Center.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATES OF COMPLETION

The Community and Technical College offers certificates of completion to students enrolling in specific programs. Students may enroll in courses for which they have satisfied the prerequisites.

Expedition courses require the student to withdraw 45 days before the course start date in order to receive a full refund.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE, HEALTH CARE ASSISTANT

Allied Health Sciences Building (AHS), Room 158, (907) 786-6934

The nontranscribed Health Care Assistant departmental certificate of completion is an approved State of Alaska program designed to prepare individuals for entry-level employment in long-term care facilities, hospitals, and community settings. Instruction is delivered through classroom lectures, demonstrations, skills lab, and practicum. Successful completion of the program allows individuals to apply for the state of Alaska Nurse Aide Certification examination. No part of the HCA Program may be used to satisfy requirements for an associate or baccalaureate degree in Nursing.

- Students must complete the following required courses:

HCA A055	Health Care Assistant	4
HCA A176	First Aid and CPR for Professionals	1
HCA A095	Health Care Assistant Practicum	3
- Special application procedures are necessary to enroll. Contact Health Education and Training for further information.

AIR FORCE ROTC

*Aviation Complex (AVNC) 2811 Merrill Field Drive, Room 116,
(907) 264-7466*

Air Force ROTC educates and trains UAA students to serve as officers in the United States Air Force. Air Force ROTC has Four-, Three-, and Two-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 4 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) is required each week. Times and location of PT sessions to be announced.

Two-Year Program

- Available to UAA students with 2 years remaining until graduation. Cadets must take the courses listed below and attend a summer field training encampment either before 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
- Cadets take AIRS A150 (US Air Force Leadership Laboratory) each semester for a total of four semesters and 4.0 credits. Academic courses are taken in the order listed, beginning with AIRS A301 in the fall semester.

Three-Year Program

- Available to UAA students with 3 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
- Cadets take AIRS A150 (US Air Force Leadership Laboratory) each semester for a total of six semesters and 6.0 credits. Academic courses are taken in the order listed, beginning with AIRS A201 in the fall semester.

Four-Year Program

- Available to UAA students with 4 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	1
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
- Cadets must take AIRS A150 (US Air Force Leadership Laboratory) each semester for a total of eight semesters and 8.0 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).

- 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 1st of a student's senior year.
- 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.
- Cadets enrolled in the 300- and 400-level courses are eligible for incentive payments of up to \$1,750 per semester for tuition and fees plus the monthly stipend. To be eligible, a cadet must have at least a 2.0 cumulative GPA (UAA plus other colleges/universities).
- 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.

- Cadets selected for pilot training will usually begin the training within 1 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 medical and age requirements for Air Force pilots.
- 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 4 years in the US Air Force after commissioning.
- 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.

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APPRENTICESHIP TECHNOLOGIES

<http://appr.uaa.alaska.edu>

University Center (UC), Suite 130, (907) 786-6423

Individuals, as well as Alaskan industries, must meet increasing training and certification requirements reflecting more complex business and industrial standards. The Associate of Applied Science Degree in Apprenticeship Technologies serves a statewide population seeking vocational training and supporting course work. The curriculum prepares graduates for the rapidly changing global workplace of the 21st century.

The Apprenticeship Technologies program is a 60-credit Associate of Applied Science degree coordinated by the University of Alaska Anchorage, and is delivered collaboratively through 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 course work and training for vocational-technical trades. Individuals receiving this degree must complete a formal apprenticeship program and hold journeyman level status in trades recognized by the the U.S. Department of Labor, Bureau of Apprenticeship and Training.

Students declaring a major in Apprenticeship Technologies must present documentation of completion of an apprenticeship program approved by the U.S. Department of Labor, Bureau of Apprenticeship and Training. The department will review the documentation and may recommend up to 38 credits be transcribed following completion of all courses listed in the Degree Requirements section.

ASSOCIATE OF APPLIED SCIENCE, APPRENTICESHIP TECHNOLOGIES

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 associate degree requirements located at the beginning of this chapter.
2. Complete the associate of applied science degree requirements (15 credits) located at the beginning of this chapter. Some of the major requirements also will fulfill associate of applied science degree general requirements.

MAJOR REQUIREMENTS

1. Complete the following required courses:

ENGL A111	Methods of Written Communication	3
ENGL A212	Technical Writing	3
EMT A110	Emergency Trauma Technician	3
HUMS/PSY A153	Human Relations (3)	3
MATH A107	College Algebra (4)	3-4
	or	
AS A252	Elementary Statistics (3)	
2. Complete one of the following:

COMM A111	Fundamentals of Oral Communication (3)	3
COMM A235	Small Group Communication (3)	
COMM A237	Interpersonal Communication (3)	
COMM A241	Public Speaking (3)	

3. Select three (3) credits from the following:

CIS A105	Introduction to Personal Computers and Application Software (3)	3
CS A100	Introduction to Computers (3)	
4. Technical credits from approved apprenticeship program

See Non-Traditional Credit section of the catalog.	38
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5. Elective to complete 60 credits as needed.
6. A total of 60 credits is required for the degree.

ARCHITECTURAL AND ENGINEERING TECHNOLOGY

University Center (UC), Room 130, (907) 786-6426

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 Department offers four 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 by using drawings, rough sketches, specifications, codes, and calculations previously made by engineers, surveyors, or architects. They 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 is also important as they are part of a team of architects, engineers, and other technicians.

The AET Associate of Applied Science (AAS) degree requires 4 to 5 semesters to complete. AET Certificates require 2 to 3 semesters to complete.

The AET faculty assists 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 exams. Courses are also available through the AET Department to help intern architects prepare for the Architects Registration Examination.

Although courses taken may apply to the first 2 years of the 4 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 4 year degree in engineering should contact the Engineering Department at UAA. Those students pursuing a degree in architecture should contact the AET department for academic counseling prior to registration.

Subject to scheduling, students may select either 5 week or 15 week blocks of instruction for each AET course. The content is the same; only the amount of time a course meets per week is different. Students should expect to spend at least 1 hour on outside work for each hour in class. Lab facilities are available for students' use 5 days a week. Course offerings vary between fall and spring semesters with occasional short courses offered during the summer. In addition to tuition and fees, students should expect to purchase books and equipment required for each course. However, supplies should not be purchased before the first class.

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 consult the faculty in the AET Department for assistance in designing their course of study to ensure prerequisites have been met and that university and major degree requirements are understood and followed.

CERTIFICATES

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) 786-6426 for further information.

GRADUATION REQUIREMENTS

In order to receive a certificate offered by the AET Department, students must achieve a grade of "C" or better in all courses required for the certificate.

ARCHITECTURAL 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 A121	Architectural Drafting	3
AET A123	Codes and Standards	3
AET A181	Intermediate CADD for Building Construction	4
AET A282	Advanced CADD Techniques	4
	Oral Communication Course	3
(Choose from one of the following: COMM A111, COMM A235, COMM A237, or COMM A241)		
ENGL A111	Methods of Written Communication	3
	General Requirement Course	3
(MATH A105 is recommended)		

2. A total of 30 credits is required for the certificate.

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 A282	Advanced CADD Techniques	4
	Oral Communication Course	3
(Choose from one of the following: COMM A111, COMM A235, COMM A237, or COMM A241)		
ENGL A111	Methods of Written Communication	3
	General Requirement Course	3
(MATH A105 is recommended)		

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 A282	Advanced CADD Techniques	4
	Oral Communication Course	3
(Choose from one of the following: COMM A111, COMM A235, COMM A237, or COMM A241)		
ENGL A111	Methods of Written Communication	3
	General Requirement Course	3
(MATH A105 is recommended)		

2. A total of 31 credits is required for the certificate.

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 A282	Advanced CADD Techniques	4
	Oral Communication Course	3
(Choose from one of the following: COMM A111, COMM A235, COMM A237, or COMM A241)		
ENGL A111	Methods of Written Communication	3
	General Requirement Course	3
(MATH A105 is recommended)		

2. A total of 31 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, ARCHITECTURAL AND ENGINEERING TECHNOLOGY

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) 786-6426 for further information.

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.
2. Complete the Associate of Applied Science General Degree Requirements (15 credits) located at the beginning of this chapter. GEOL A111 and MATH A105 are recommended.

MAJOR REQUIREMENTS

1. Complete the following required courses (42 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 A282	Advanced CADD Techniques	4

2. Electives 6
AET A295 is strongly recommended.
3. A total of 63 credits is required for the degree.

RECOMMENDED COURSE SEQUENCE

Not all AET courses are offered every semester. The course sequencing is dependent on the semester in which the student starts the program. Students should consult the faculty in the AET Department for assistance in designing their course of study to ensure that university and major degree requirements are understood and followed.

FACULTY

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Jeffrey Callahan, Assistant Professor, callahan@uaa.alaska.edu
J. Ellen McKay, Professor, afjem@uaa.alaska.edu

AUTOMOTIVE AND DIESEL TECHNOLOGY

Auto & Diesel Technology Building (ADT), Room 207, (907) 786-1485

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 technology to new heights. The Automotive and Diesel Department offers AAS degrees in Automotive Technology and 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.

There are three options for the AAS Automotive Technology Degree. The General Automotive Technology option for the AAS Degree and 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 ASEP 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 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.

AUTOMOTIVE TECHNOLOGY (GENERAL AUTOMOTIVE OPTION)

This program is modeled after a variety of very successful corporate training programs. The program is five semesters long. It incorporates a prearranged, supervised, evaluated practicum after the first two semesters, with the possibility of an additional practicum during the last semester. 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 work place 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, 6 days per week. Equal opportunities are available for men and women.

AUTOMOTIVE TECHNOLOGY (FORD ASSET OPTION)

The ASSET (Automotive Student Services Educational Training) Automotive 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 ten weeks of the semester and complete 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.

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 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 ten weeks of the semester and 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.

HEAVY DUTY TRANSPORTATION AND EQUIPMENT

The Heavy Duty Transportation and Equipment (HDTE) AAS Degree and Certificate are 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 and 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.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATES OF COMPLETION, AUTOMOTIVE

Computer Competency Requirement

Nontranscribed Automotive Technology 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.

Four nontranscribed departmental certificate of completion programs are available: Automotive Electrical; Automotive Brakes, Suspension and Alignment; Automotive Power Trains; and Automotive Engine Performance. Discuss academic plan and scheduling with faculty advisor.

A. Automotive Electrical

1. Complete the following courses:

ADT A102	Introduction to Automotive Technology	3
ADT A121	Basic Electrical Systems	3
ADT A131	Auto Electrical II	3
ADT A195	Automotive Practicum I (1-6)	6
ADT A227	Auto Electrical III	3

2. A total of 18 credits is required for the nontranscribed departmental certificate of completion.

B. Automotive Brakes, Suspension and Alignment

1. Complete the following courses:

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 A162	Suspension and Alignment	4
ADT A195	Automotive Practicum I (1-6)	6

2. A total of 23 credits is required for the nontranscribed departmental certificate of completion.

C. Automotive Power Trains

1. Complete the following courses:

ADT A102	Introduction to Automotive Technology	3
ADT A160	Manual Drive Trains and Axles	4
ADT A260	Electronic and Automatic Transmissions	3
ADT A121	Basic Electrical Systems	3
ADT A131	Auto Electrical II	3
ADT A195	Automotive Practicum I(1-6)	6

2. A total of 22 credits is required for the nontranscribed departmental certificate of completion.

D. Automotive Engine Performance

1. Complete the following courses:

ADT A102	Introduction to Automotive Technology	3
ADT A121	Basic Electrical Systems	3
ADT A122	Engine Theory and Diagnosis	3
ADT A131	Auto Electrical II	3
ADT A140	Automotive Engine Repair	3
ADT A202	Auto Fuel and Emissions Systems	4
ADT A222	Engine Performance	3
ADT A295	Automotive Practicum II	3

2. A total of 25 credits is required for the nontranscribed departmental certificate of completion.

CERTIFICATE, AUTOMOTIVE TECHNOLOGY

Computer Competency Requirement

Automotive Technology 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.

MAJOR REQUIREMENTS

- 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 I (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 I (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 I (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)	
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- A total of 49 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, AUTOMOTIVE TECHNOLOGY

Computer Competency Requirement

The AAS degree in Automotive Technology requires demonstrated computer competency. Computer competency may be demonstrated in any of the following ways:

- A 3 credit course in a computer language or an introductory course in data processing or microcomputers.
- Work-related experience verifying computer competency as approved by the faculty advisor.
- Self-initiated computer competency as approved by the faculty advisor.

GENERAL AUTOMOTIVE OPTION

ADMISSION REQUIREMENTS

Specific admission requirements apply to this option. See department for criteria.

GENERAL UNIVERSITY REQUIREMENTS

- Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
- Complete the Associate of Applied Science General Degree Requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

- 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 I (1-6)	2
One AAS degree requirement		3

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 I (1-6)	2
One AAS degree requirement		3

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 I (1-6)	2
One AAS degree requirement		3

Fourth Semester

ADT A202	Auto Fuel and Emission System	4
ADT A222	Engine Performance	3
ADT A260	Electronic & Automatic Transmissions (3)	3

or

ADT A295	Automotive Practicum II (3)	
Two AAS degree requirements		6

- A total of 64 credits is required for the degree.

FORD ASSET PROGRAM OPTION

ADMISSION REQUIREMENTS

Specific admission requirements apply to this option. Student selection occurs up to 3 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.

GENERAL UNIVERSITY REQUIREMENTS

- Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
- Complete the Associate of Applied Science General Degree Requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

- 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 I (1-6)	2
One AAS degree requirement		3

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 I (1-6)	2
One AAS degree requirement		3

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 I (1-6)	2
One AAS degree requirement		3

Fourth Semester

ADT A202	Auto Fuel and Emission System	4
ADT A222	Automotive Performance	3
ADT A260	Electronic and Automatic Transmissions	3
ADT A295	Automotive Practicum II (3)	3
Two AAS degree requirements		6

- A total of 67 credits is required for the degree.

GENERAL MOTORS AUTOMOTIVE SERVICE EDUCATION PROGRAM (ASEP) OPTION

ADMISSION REQUIREMENTS

Complete the following application procedures:

1. Instructor approval is required for admission to the ASEP option. Prospective students should provide the UAA ASEP instructor with a resume and a copy of their driving record.
2. Admission to UAA ASEP requires employment by a sponsoring Alaskan General Motors dealership.
3. Apply for admission to UAA and to the UAA ASEP department by contacting the Automotive and Diesel Technology Department, University of Alaska Anchorage, 3211 Providence Drive, Anchorage, Alaska 99508. Telephone (907)786-1461.
4. Have official high school transcripts, or official GED, and any vocational-technical training certificates sent to UAA Enrollment Services, 3211 Providence Drive, Anchorage, Alaska 99508.
5. Present evidence to UAA ASEP of math competency equivalent to completion of MATH A055. This may be accomplished by
 - a. presentation of college transcripts for department evaluation, or
 - b. by achieving an appropriate score on a UAA approved placement test administered by Testing and Assessment Services. Call (907) 786-4500 to make arrangements.
6. Demonstrate English language proficiency through appropriate score on a UAA approved placement test administered by Testing and Assessment Services or through presentation of transcripts for Department of English evaluation. Generally, applicants prepared for entry into ENGL A111 have sufficient proficiency for entry into the UAA ASEP.

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:

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	2
One AAS degree requirement		

Second Semester

ADT A122	Engine Theory and Diagnosis	3
ADT A140	Manual Drive Trains and Axles	4
ADT A162	Suspension and Alignment	4
ADT A195	Automotive Practicum	2
One AAS degree requirement		

Third Semester

ADT 140	Automotive Engine Repair	3
ADT A225	Auto Heating and A/C	3
ADT A227	Auto Electrical III	3
ADT A195	Automotive Practicum	2
One AAS degree requirement		

Fourth Semester

ADT A202	Fuel and Emissions	4
ADT A222	Engine Performance	3
ADT A260	Electronic and Automatic Transmissions	3
ADT A295	Practicum II	3
Two AAS degree requirement		

2. A total of 67 credits is required for the degree.

CERTIFICATE, HEAVY DUTY TRANSPORTATION AND EQUIPMENT

ADMISSION REQUIREMENTS

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, "Academic Standards and Regulations." Students must complete the following admission requirements:

1. Submit UAA Undergraduate Application for Admission for the Heavy-Duty Transportation and Equipment Certificate.
2. Placement at the MATH A055 entry-level or higher. For testing schedule contact Testing and Assessment Services at (907) 786-4500.
3. Placement at the ENGL A111 entry-level or higher. For testing schedule contact Testing and Assessment Services at (907) 786-4500.
4. Students must 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. Students must 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.

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Certificates listed at the beginning of this chapter for Certificates.

MAJOR REQUIREMENTS

1. Complete these required courses (51 credits):

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)	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 certificate.

ASSOCIATE OF APPLIED SCIENCE, HEAVY DUTY TRANSPORTATION AND EQUIPMENT

ADMISSION REQUIREMENTS

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, "Academic Standards and Regulations." 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. Placement at the MATH A055 entry-level or higher. For testing schedule contact Testing and Assessment Services at (907) 786-4500.
3. Placement at the ENGL A111 entry-level or higher. For testing schedule contact Testing and Assessment Services at (907) 786-4500.
4. Students must 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. Students must 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.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees listed 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 these required courses (51 credits):

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 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

<http://aviation.uaa.alaska.edu>

Aviation Complex (AVNC), 2811 Merrill Field Drive, (907) 264-7400

BACHELOR OF SCIENCE, AVIATION TECHNOLOGY

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.

The program includes university general education requirements and a common set of core courses, which are required for all emphasis areas. The specific interests and career goals of each student determine the remainder of the program. Emphasis areas include Aviation Management, Air Traffic Control and Professional Piloting.

There are no additional admission requirements. However, students must be able to meet any applicable certification requirements established by the Federal Aviation Administration. A strong background in science, math, and reading skills is highly recommended.

Degree check sheets are available in the Aviation Technology Division office.

ADMISSION REQUIREMENTS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, "Academic Standards and Regulations."

ACADEMIC PROGRESS

A grade of a C or higher in each Aviation Technology course is required to graduate with this degree.

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 core courses (46 credits):

AT A100	Private Pilot Ground School	3
AT A102	Introduction to Aviation Technology	3
AT A133	Aviation Law and Regulations	3
AT A233	Aviation Safety	3
AT A235	Elements of Weather	3
AT A331	Human Factors in Aviation	3
AT A415	Company Resource Management	3
AT A420	Air Transportation System	3
BA A300	Organizational Theory and Behavior	3
BA A361	Human Resource Management	3
BA A461	Negotiations and Conflict Management	3
CIS A110	Computer Concepts in Business	3
CIS A376	Management Information Systems	3
MATH A272	Calculus for Managerial Sciences	3
PHYS A123	Basic Physics I	3
PHYS A123L	Basic Physics I Laboratory	1

2. Complete one of the following three BSAT emphasis areas:

Aviation Management

Note: Total credits needed for graduation may increase unless students take at least 12 credits of upper-division work in fulfillment of general education requirements and/or emphasis area electives.

a. Complete the following required courses (24 credits):

ACCT A101	Principles of Financial Accounting I	3
AT A132	History of Aviation	3
AT A134	Principles of Aviation Administration	3
AT A335	Airport Operations	3
AT A336	Air Service Operations	3
AT A337	Airline Operations	3
BA A233	Fundamentals of Financial Management	3
ECON A202	Principles of Microeconomics	3

b. Complete an additional 18 credits of electives. Electives must be approved by a faculty advisor from the Aviation Technology Division.

Air Traffic Control

Note: Total credits needed for graduation may increase unless students take at least 12 credits of upper-division work in fulfillment of general education requirements and/or emphasis area electives.

a. Complete the following required courses (36 credits):

AT A147	Pilot/Controller Techniques	3
AT A143	ATC Regulations	3
AT A144	ATC Flight Procedures	3
AT A240	Operations in Flight Service Station	3
AT A241	Control Tower Operations	3
AT A241L	Control Tower Operations Lab	1
AT A242	ATC Terminal Radar Procedures	3
AT A242L	ATC Terminal Radar Procedures Lab	1
AT A243	ATC Enroute Procedures	3
AT A243L	ATC Enroute Procedures Lab	1
AT A295	Aviation Internship I (1-3)	3
AT A340	Terminal Instrument Procedures	3
AT A440	Facility Operation and Administration	3
PSY A380	Psychology of Stress and Coping	3

b. Complete an additional 6 credits of electives. Electives must be approved by a faculty advisor from the Aviation Technology Division.

Professional Piloting

Note: Total credits needed for graduation may increase unless students take at least 9 credits of upper-division work in fulfillment of general education requirements and/or emphasis area electives.

a. The following applies for those students desiring to pursue the Professional Piloting emphasis:

1. Costs for flight training are not included in University tuition and fees.
2. Once formally registered for Aviation classes at UAA, all subsequent flight training must be completed in residence at UAA.
3. Under certain circumstances, academic credit may be granted for pilot certificates/ratings earned prior to enrolling at UAA. Contact a faculty advisor for determination.
4. 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.

b. Complete the following required courses (32 credits):

AT A101	Pre-professional Flying	2
AT A116	Instrument Ground School	3
AT A126	Instrument Flying	2
AT A200	Commercial Ground School	3
AT A218	Commercial Flying I	1.5
AT A219	Commercial Flying II	1.5
AT A220	Commercial Flying III	2
AT A232	Aviation Navigation	3
AT A300	CFI Ground School	3
AT A301	CFI Flying	2
AT A332	Transport Aircraft Systems	3
AT A362	Aerodynamics and Flight Performance	3
ACCT A201	Principles of Financial Accounting	3

c. Complete an additional 10 credits of electives. Electives must be approved by a faculty advisor from the Aviation Technology Division.

3. All students are required to complete at least two advanced flight courses (300-400) in residence to meet graduation requirements.

4. A total of 122 credits is required for the degree, of which 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 are required for the minor, 6 of which must be upper-division. Students are encouraged to select courses from the following list. However, prior approval of other AT courses may be requested from the Aviation Technology Division.

1. Complete 18 credits from the following: 18

AT A100	Private Pilot Ground School (3)
AT A132	History of Aviation (3)
AT A133	Aviation Law and Regulations (3)
AT A147	Pilot/Controller Techniques (3)
AT A171	Basic Aerodynamics (3)
AT A172	Publications, Regulations and Records (3)
AT A177	Reciprocating Engine Theory (2)
AT A178	Turbine Engine Theory (2)
AT A185/L	Sheet Metal Structures and Lab (3/2)
AT A233	Aviation Safety (3)
AT A235	Elements of Weather (3)
AT A285/L	Bonded Structures and Lab (4/1)
AT A331	Human Factors in Aviation (3)
AT A335	Airport Operations (3)
AT A336	Air Service Operations (3)
AT A362	Aerodynamics and Flight Performance (3)
AT A420	Air Transportation System (3)
AT A431	Aircraft Accident Investigation (3)

AIR TRAFFIC CONTROL

<http://aviation.uaa.alaska.edu>

Aviation Complex (AVNC), 2811 Merrill Field Drive, (907) 264-7400

Note: For students to receive a university recommendation for employment with the FAA, students must have a 3.0 combined average in the following Air Traffic Control courses: AT A143, A144, A147, A240, A241, A242, and A243.

The Air Traffic Control program prepares students for work in the FAA Air Traffic Control system. It also fulfills lower-division requirements for certain baccalaureate degree programs and provides recurrency for personnel in air traffic control. Areas of study include aviation weather, radar environment, air traffic control regulations, and basic responsibilities of first-level field supervisors. Simulated flight training in the department's Link Trainer is featured, and air traffic control students practice controlling airplanes in a lab. Students visit several air traffic control facilities in Anchorage, some of which offer intern programs. The FAA has identified Air Traffic Control as a "Pre-Hire" program which will enhance FAA employment placement to qualified graduates.

The AAS degree may be completed in 4 semesters with a course load of 15 credits each semester. Students with no prior background in aviation should begin course work in the fall semester.

ASSOCIATE OF APPLIED SCIENCE, AIR TRAFFIC CONTROL

ADMISSION REQUIREMENTS

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, "Academic Standards and Regulations." UAA has no restrictions on age or physical condition of students. However, students desiring employment with the Federal Aviation Administration should be aware of FAA employment requirements:

1. Class II Medical Certificate is required as depicted in FAR 65.49, and 67 Subpart C.
2. 30-year-old maximum age restriction for students anticipating employment in terminal or en route options.
3. For employment consideration with the FAA, students must be able to receive a score of PASS on the Air Traffic-Selection and Training (AT-SAT) examination administered by the FAA. This 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."

Students with low reading comprehension and math skills should first take preparatory courses. The ATC program requires extensive reading and interpreting of technical information.

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.

MAJOR REQUIREMENTS

1. Complete the following required courses:

Fall Semester

AT A100	Private Pilot Ground School	3
AT A143	ATC Regulations	3
AT A144	ATC Flight Procedures	3
AT A235	Elements of Weather	3
ENGL A111	Methods of Written Communication	3

Spring Semester

AT A132	History of Aviation	3
AT A240	Operations in Flight Service Station	3
Elective	Social Science, Natural Science, Math, Humanities*	3

One of the following: 3

AT A133	Aviation Law and Regulations (3)	
AT A134	Principles of Aviation administration (3)	

One of the following: 3

CIOA A260A	Written Business Communications (3)	
ENGL A211	Academic Writing About Literature (3)	
ENGL A212	Technical Writing (3)	
ENGL A213	Writing for the Social and Natural Sciences (3)	
ENGL A214	Persuasive Writing (3)	

Fall Semester

AT A102	Introduction to Aviation Technology	3
AT A147	Pilot/Controller Techniques	3
AT A242	ATC Terminal Radar Procedures	3
AT A242L	ATC Terminal Radar Procedures Lab	1
Elective	Social Science, Natural Science, Math, Humanities*	3

One of the following: 3

AT A231	Search, Survival, and Rescue (3)	
AT A232	Aviation Navigation (3)	
AT A233	Aviation Safety (3)	

Spring Semester

AT A241	Control Tower Operations	3
AT A241L	Control Tower Operations Lab	1
AT A243	ATC Enroute Procedures	3
AT A243L	ATC Enroute Procedures Lab	1
AT A295	Aviation Internship I (1-3)	3
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)	

* Any English course used to satisfy the Humanities General Requirement must be different from the Written Communications requirement and have a course number higher than ENGL A111.

2. A total of 60 credits is required for the degree.

AVIATION ADMINISTRATION

<http://aviation.uaa.alaska.edu>

Aviation Complex (AVNC), 2811 Merrill Field Drive, (907) 264-7400

The Aviation Administration program is designed to provide a technical understanding of the aviation industry and its operations. Individuals currently employed in the industry traditionally take these courses for advancement. Others use the program to achieve entry-level skills.

Classes on specific administrative procedures in aviation have been developed. Major areas include Airport Management, Airline Management, and Air Service Operation Management.

There are no special admission requirements, and the AAS degree may be earned in four semesters if a student completes 12-18 credits per semester. Class time involves 12-20 hours per week. Most classes are scheduled during fall and spring semesters.

This program is one of several programs that can serve as an entry into the Bachelor of Science degree in Technology offered through the Community and Technical College. Interested students should contact the Aviation faculty for details on both programs.

ASSOCIATE OF APPLIED SCIENCE, AVIATION 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.

MAJOR REQUIREMENTS

1. Complete the following required courses (45 credits):

Fall Semester

AT A100	Private Pilot Ground School	3
AT A102	Introduction to Aviation Technology	3
AT A132	History of Aviation	3

Spring Semester

AT A133	Aviation Law and Regulations	3
CIS A105	Introduction to Personal Computers and Application Software (3)	3
	or	
CIS A110	Computer Concepts in Business (3)	
CIOA A116	Business Calculations	3
	Elective (see elective list below)	3

Fall Semester

AT A134	Principles of Aviation Administration	3
AT A233	Aviation Safety	3
AT A235	Elements of Weather	3
ACCT A101	Principles of Financial Accounting I	3

Spring Semester

BA A151	Introduction to Business (3)	3
	or	
BA A231	Fundamentals of Supervision (3)	
PHIL A301	Ethics	3
ACCT A102	Principles of Financial Accounting II	3
	Elective (see elective list below)	3

2. Above electives must be selected from the following:

BA A166	Small Business Management (3)
CIOA A101	Keyboarding (3)
CIOA A165	Office Procedures (3)
ECON A201	Principles of Macroeconomics (3)
PSY A111	General Psychology (3)

3. A total of 60 credits is required for the degree.

AVIATION MAINTENANCE TECHNOLOGY

<http://aviation.uaa.alaska.edu>

Aviation Complex (AVNC), 2811 Merrill Field Drive, (907) 264-7400

The Aviation Maintenance Technology program is an FAA-approved and nationally recognized course of study that is designed to prepare graduates for entry-level positions as technicians for general aviation, corporate aviation, airlines or manufacturers. The curriculum offers emphasis on modern aircraft systems such as electronics, composite structures, automatic controls and turbine engines. Graduates are employed worldwide in many phases of aviation. Students may choose to pursue an FAA mechanic's certificate with airframe and powerplant ratings or an Associate of Applied Science degree in Aviation Maintenance Technology.

Successful progress through the AMT program requires that all students have minimum algebra proficiency at the MATH A055 level (MATH A105 recommended, see application procedures below). Math courses should be taken prior to entry into the AMT program; however, under some circumstances, the course may be taken during the first semester along with certain other aviation maintenance courses. Taking courses out of sequence will probably extend the program beyond its normal length. Students in the certificate or degree program who take courses out of sequence are enrolled on a space-available basis. Many AMT courses have prerequisites.

The AAS degree is an FAA Airway Science recognized program and requires 22 credits beyond the certificate program. Students with no prior college level courses should plan to attend full-time for 6 semesters to complete the AAS degree in Aviation Maintenance Technology.

AMT students may continue their studies while pursuing a Bachelor of Science in Technology degree at UAA. Other universities offering baccalaureate degrees in Aviation Maintenance Technology or related fields (Aircraft Maintenance Engineering, Aircraft Maintenance Management, etc.) accept credits, certificates, and degrees earned at UAA to apply to their four-year degrees. The actual number of credits that transfer and how they apply to the degree are determined by the receiving institution. Those intending to pursue a four-year degree in Aviation Maintenance Technology are urged to discuss their plans with an AMT faculty advisor.

AAS degree candidates who have completed an FAA approved program in aviation maintenance at an accredited institution, and who have passed all courses in the major field with a grade of "C" or better, and who currently hold a valid FAA mechanic's certificate with airframe and powerplant ratings may, with the approval of the

department, substitute that certificate and training for all or a portion of the major degree requirements for the AAS degree in Aviation Maintenance Technology.

CERTIFICATE AND ASSOCIATE OF APPLIED SCIENCE DEGREE

ADMISSION REQUIREMENTS

Complete the following application procedures:

1. Apply for admission to UAA and to the AMT program by contacting the Aviation Maintenance Technology (AMT) program, University of Alaska Anchorage, 2811 Merrill Field Drive, Anchorage, Alaska 99501. Telephone: (907) 264-7400.
2. Have official high school transcripts, or official GED, and any vocational-technical training certificates sent to UAA Enrollment Services.
3. Present evidence to the AMT program of math competency equivalent to completion of MATH A055. This may be accomplished by:
 - a. presentation of college transcripts for department evaluation, or
 - b. by attaining an appropriate score on a UAA approved placement test at the MATH A055 level or above. Please call Testing and Assessment Services at (907) 786-4500 to make arrangements.
4. Demonstrate English language proficiency through appropriate score on a UAA approved placement test administered by Testing and Assessment Services or through presentation of transcripts for department evaluation. Generally, applicants prepared for entry into ENGL A108-A109 have sufficient proficiency for entry into the AMT program.

CERTIFICATE, AVIATION MAINTENANCE TECHNOLOGY

ADMISSION REQUIREMENTS

See Certificate and Associate of Applied Science Degree Admission Requirements above.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:

AT A170	Acft Ground Operations and Safety	1
AT A171	Basic Aerodynamics	3
AT A172	Publications, Regulations and Records	3
AT A173	Acft Electrical Hardware	3
AT A174	Acft DC Electrical Systems	3
AT A174L	Acft DC Electrical Systems Lab	1
AT A175	Drawing and Precision Measurement	2
AT A176	Acft Materials and Processes I	2
AT A177	Recip Engine Theory	2
AT A178	Turbine Engine Theory	2
AT A181	Fuel Systems	3
AT A181L	Fuel Systems Lab	1
AT A183	Acft Electrical Machinery	2
AT A183L	Acft Electrical Machinery Lab	1
AT A184	Acft AC Electrical Systems	3
AT A184L	Acft AC Electrical Systems Lab	1
AT A185	Sheetmetal Structures	3
AT A185L	Sheetmetal Structures Lab	2
AT A186	Non-destructive Inspection Methods	3
AT A187	Recip Engine Overhaul	3
AT A187L	Recip Engine Overhaul Lab	2
AT A273	Fluid Power Systems	3

- | | | |
|----------|--|---|
| AT A273L | Fluid Power Systems Lab | 2 |
| AT A274 | Acft Electronic Systems | 5 |
| AT A274L | Acft Electronic Systems Lab | 1 |
| AT A276 | Propeller Systems | 1 |
| AT A277 | Recip Engine Installation and Operations | 3 |
| AT A277L | Recip Engine Installation and Operations Lab | 2 |
| AT A279 | Turbine Engine Repair and Overhaul | 3 |
| AT A279L | Turbine Engine Repair and Overhaul Lab | 1 |
| AT A283 | Acft Auxiliary Systems | 3 |
| AT A283L | Acft Auxiliary Systems Lab | 1 |
| AT A285 | Bonded Structures | 4 |
| AT A285L | Bonded Structures Lab | 1 |
| AT A286 | Acft Materials and Processes II | 2 |
| AT A289 | Turbine Engine Installation and Operations | 2 |
| AT A289L | Turbine Engine Installation and Operations Lab | 2 |
| AT A364 | Avionics Systems | 3 |
| AT A367 | Acft Assembly and Inspections | 4 |
| AT A367L | Acft Assembly and Inspections Lab | 2 |

2. A total of 91 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, AVIATION MAINTENANCE TECHNOLOGY

ADMISSION REQUIREMENTS

1. Satisfy all requirements for admission to the certificate program.
2. This degree requires two special competencies:
 - a. Computer competency which may be demonstrated in one 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 literacy as approved by the faculty advisor.
 3. Self-initiated computer literacy as approved by the faculty advisor.
 - b. An overview of aviation demonstrated in one of the following ways:
 1. Satisfactorily complete AT A100 or AT A132.
 2. Possess an FAA Private Pilot certificate.
 3. Present evidence of passing the FAA Private Pilot written exam.

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 (91 credits):

AT A170	Acft Ground Operations and Safety	1
AT A171	Basic Aerodynamics	3
AT A172	Publications, Regulations and Records	3
AT A173	Acft Electrical Hardware	3
AT A174	Acft DC Electrical Systems	3
AT A174L	Acft DC Electrical Systems Lab	1
AT A175	Drawing and Precision Measurement	2
AT A176	Acft Materials and Processes I	2
AT A177	Recip Engine Theory	2
AT A178	Turbine Engine Theory	2

AT A181	Fuel Systems	3
AT A181L	Fuel Systems Lab	1
AT A183	Acft Electrical Machinery	2
AT A183L	Acft Electrical Machinery Lab	1
AT A184	Acft AC Electrical Systems	3
AT A184L	Acft AC Electrical Systems Lab	1
AT A185	Sheetmetal Structures	3
AT A185L	Sheetmetal Structures Lab	2
AT A186	Non-destructive Inspection Methods	3
AT A187	Recip Engine Overhaul	3
AT A187L	Recip Engine Overhaul Lab	2
AT A273	Fluid Power Systems	3
AT A273L	Fluid Power Systems Lab	2
AT A274	Acft Electronic Systems	5
AT A274L	Acft Electronic Systems Lab	1
AT A276	Propeller Systems	1
AT A277	Recip Engine Installation and Operations	3
AT A277L	Recip Engine Installation and Operations Lab	2
AT A279	Turbine Engine Repair and Overhaul	3
AT A279L	Turbine Engine Repair and Overhaul Lab	1
AT A283	Acft Auxiliary Systems	3
AT A283L	Acft Auxiliary Systems Lab	1
AT A285	Bonded Structures	4
AT A285L	Bonded Structures Lab	1
AT A286	Acft Materials and Processes II	2
AT A289	Turbine Engine Installation and Operations	2
AT A289L	Turbine Engine Installation and Operations Lab	2
AT A364	Avionics Systems	3
AT A367	Acft Assembly and Inspections	4
AT A367L	Acft Assembly and Inspections Lab	2

2. Complete the following (13 credits):

Six (6) of these credits may also be used to fulfill the AAS General Degree Requirements located at the beginning of this chapter.

Humanities elective*	3
Social Sciences elective (PSY A111 recommended).	3
MATH A105 Intermediate Algebra	3
Natural Science Elective (PHYS A123/L recommended)	4

3. A total of 113 credits is required for the degree.

*Any English courses used to satisfy the Humanities general requirement must be different from the written communications requirement and have a course number higher than ENGL A111.

PROFESSIONAL PILOTING

<http://aviation.uaa.alaska.edu>

Aviation Complex (AVNC), 2811 Merrill Field Drive, (907) 264-7400

The Professional Piloting program is a course of study designed to prepare graduates for entry-level pilot positions in the aviation industry. In addition to the required major specialty courses, graduates are required to fulfill the General University Requirements and the General Education Requirements and Associate of Applied Science Requirements. Ground school and flight courses required for the degree are approved under Federal Aviation Regulations, Part 141.

There are no special admission requirements. However, students must be able to meet all certification requirements established by the Federal Aviation Administration. Strong math and reading abilities are highly recommended.

Students must be formally admitted to the university, and have declared Professional Piloting as their Associate of Applied Science degree or the Bachelor of Science degree in Technology as their intended program major or emphasis. The Associate of Applied Science degree may be completed in four semesters. Regular attendance is required in all university academic courses, and mandatory in those ground schools operated under Part 141 of the Federal Aviation Regulations. Flight training courses are "open entry-open exit" and may be registered for any time during the semester: fall, spring, or summer. Costs for flight training are not included in tuition and fees. These costs are in addition to normally charged university tuition and fees.

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.

Under certain circumstances, academic credit may be granted for pilot certificates/ratings earned prior to enrolling at UAA. Contact a faculty advisor for determination.

Military pilots currently, or within the preceding 12 months, on active flight status may petition to have appropriate curriculum requirements awarded without a proficiency check. It is the student's responsibility to make arrangements for the required flight check(s). However, all students are required to complete at least one advanced flight course while enrolled at the University of Alaska Anchorage.

ACADEMIC PROGRESS

A grade of "C" or higher in all Aviation Technology courses is required to graduate with this degree. Once enrolled in any flight training course, students are expected to complete the course requirements in the equivalent of two semesters. Failure to do so will be considered unsatisfactory progress and will result in a failing grade.

ASSOCIATE OF APPLIED SCIENCE, PROFESSIONAL PILOTING

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.
2. Complete the Associate of Applied Science General Degree Requirements listed 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 Professional Piloting department.

MAJOR REQUIREMENTS

Note: Courses preceded by an asterisk also will fulfill associate of applied science degree general requirements.

1. Complete the following foundation courses (24-25 credits):

*COMM A235	Small Group Communication (3)	3
	or	
*COMM A241	Public Speaking (3)	
*ENGL A111	Methods of Written Communication	3
*ENGL A212	Technical Writing	3
*MATH A105	Intermediate Algebra (3)	3-4
	or	
*MATH A107	College Algebra (4)	
VE A301	Principles of Technology	3
*PHIL A101	Introduction to Logic	3
*CS A100	Introduction to Computers (3)	3
	or	
CIS A110	Computer Concepts in Business (3)	
*Complete one Social Science elective (PSY A111 General Psychology recommended)		3
2. Complete the following required Aviation Technology courses (39 credits):

AT A100	Private Pilot Ground School	3
AT A101	Pre-Professional Flying	2
AT A102	Introduction to Aviation Technology	3
AT A116	Instrument Ground School	3
AT A126	Instrument Flying	2
AT A132	History of Aviation	3
AT A133	Aviation Law and Regulations	3
AT A200	Commercial Ground School	3
AT A218	Commercial Flying I	1.5
AT A219	Commercial Flying II	1.5
AT A220	Commercial Flying III	2
AT A231	Search, Survival, and Rescue	3
AT A233	Aviation Safety	3
AT A235	Elements of Weather	3
AT A337	Airline Operations	3
3. A total of 63-64 credits is required for the degree.

FACULTY

Michael Buckland, Assistant Professor, AFMPB@uaa.alaska.edu
William Butler, Assistant Professor, AFWTB@uaa.alaska.edu
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COMPUTER ELECTRONICS

Kenai Peninsula College (KPC)

34820 College Drive, Soldotna, Alaska 99669, (907) 262-0300

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 offered only at Kenai Peninsula College.

ADMISSION REQUIREMENTS

1. Placement at the MATH A100 entry-level or above.
2. Placement for reading at the ENGL A110 level or above.
3. Students placing below these math and reading levels on an approved placement test must see a faculty advisor in computer electronics prior to registering for computer electronics courses.

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.

COMMUNICATION AND GENERAL REQUIREMENTS

1. Communication Requirements

ENGL A111	Methods of Written Communication	3
ENGL A212	Technical Writing	3
COMM A111	Fundamentals of Oral Communication	3
2. General Requirements

MATH A101	Technical Mathematics	3
MATH A105	Intermediate Algebra	3
PHYS A123/L	Basic Physics I (4)	8
	and	
PHYS A124/L	Basic Physics II (4)	
	or	
PHYS A115	Physical Science I for Technicians (4)	
	and	
PHYS A116	Physical Science II for Technicians (4)	

MAJOR REQUIREMENTS

1. Complete the following required courses (35 credits):

CIS A110	Computer Concepts in Business	3
CS A105	FORTAN Programming (3)	3
	or	
CS A107	Pascal Programming (3)	
	or	
CS A207	C Programming (3)	
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
ET A242A/B	Computer Peripheral Devices	4
ET A245	Basic Electronics	4
2. Electives
3. A total of 60 credits is required for the degree.

COMPUTER INFORMATION AND OFFICE SYSTEMS

<http://omt.uaa.alaska.edu>

University Center (UC), Suite 130, (907) 786-6423

The Computer Information and Office System (CIOS) program provides career education leading to a Certificate or an Associate of Applied Science degree. It also offers nontranscripted departmental certificates of completion and job enrichment courses. The CIOS program will provide the student the opportunity to develop the skills and qualities required to succeed in a world of technology and rapid change.

Office professionals are at the information center of every office. For years the office professional's title was confined to secretary, receptionist, and such specialized titles as legal and medical secretaries. Today, titles reflect the shifting role that is reflected in the increased responsibilities of the office professional. A few of these titles include administrative assistant, executive assistant, technical assistant, payroll assistant, information/database specialist, desktop publishing/graphics specialist, help-desk technician, web designer.

The CIOS program prepares students for career entry or advancement and also offers skills preparation for personal use. Courses meet the needs of beginning, experienced, or re-entry office workers. While graduating students are prepared for entry-level positions in a wide variety of businesses, the professional and technical skills students acquire will allow rapid progress to more advanced career opportunities. Microsoft Office Specialist (MOS) and Certified Administrative Professional (CAP) courses are also available to aid students in qualifying for these industry certification examinations.

The following programs are available:

Nontranscripted Departmental Certificates of Completion:

Office Technology
Bookkeeping
Medical Office Support
Web Foundations
Desktop Publishing and Graphics
Administrative Office Support
Legal Office Support

Certificate

Computer Information and Office Systems

Associate of Applied Science Degree

Computer Information and Office Systems

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATES OF COMPLETION

A nontranscripted Certificate of Completion is a certificate awarded by an academic department. Nontranscripted Certificates of Completion will be issued by the Computer Information and Office Systems Department in Office Technology, Bookkeeping, Medical Office Support, Web Foundations, Desktop Publishing and Graphics, Administrative Office Support, and Legal Office Support. These certificates are designed to give students intensive training in a specific occupational field and to indicate competence in technical and professional courses. The certificate areas are articulated with the Certificate in Computer Information and Office Systems and the

A.A.S. in Computer Information and Office Systems. Students must receive a satisfactory grade (C or higher, or P) in all CIOS courses required in order to be awarded a Nontranscripted Certificate of Completion. To apply for a Nontranscripted Certificate of Completion, contact the CIOS department directly.

Office Technology

The Office Technology nontranscripted certificate offers concentrated study in skills required for the administrative office professional. A nontranscripted certificate of completion is available after completing this program.

- Basic Computer Skills Core (0-5 credits):
All students are required to take the following Basic Computer Skills Core courses or possess equivalent knowledge. Students may take challenge exams 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 (25 wpm minimum required)	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 I	1
- Complete 3 credits from the following: 3

CIOS A101*	Keyboarding (3)	
CIOS A101B*	Keyboarding B (1)	
CIOS A101C*	Keyboarding C (1)	
CIOS A102	Keyboarding Skill Building (1-3)	
CIOS A201A	Document Processing (3)	

**Credit will not be counted for BOTH CIOS A101 (3) and CIOS A101A (1), A101B (1), and A101C (1).*
- Complete the following 15 credits

CIOS A125A	Electronic Communications I: MS Outlook	1
CIOS A160	Business English	3
CIOS A161A	Proofreading	1
CIOS A164	Filing	1
CIOS A165	Office Procedures	3
CIOS A230A	Word Processing II: MS Word	2
CIOS A235A	Spreadsheets II: MS Excel	2
CIOS A259	Preparing Electronic Documents: Adobe Acrobat	1
CNT A165	Customer Service Fundamentals (1)	
- Complete 2 credits from the following: 2

CIOS A282	Office Internship (1-2)	
CIOS Advisor-approved Electives (1-2)		
- A total of 20-25 credits is required for the nontranscripted certification of completion. 20-25

Bookkeeping

The Bookkeeping nontranscripted certificate provides essential skills to handle financial transactions and recordkeeping. A nontranscripted certificate of completion is available after completing this program.

- Basic Computer Skills Core (0-5 credits):
All students are required to take the following Basic Computer Skills Core courses or possess equivalent knowledge. Students may take challenge exams 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 (25 wpm minimum required)	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 I | 1 |
| 2. | Complete 3 credits from the following: | | 3 |
| | ACCT A101 | Principles of Financial Accounting I (3) | |
| | ACCT A120 | Bookkeeping for Business I (3) | |
| | ACCT A201 | Principles of Financial Accounting (3) | |
| 3. | Complete the following 17 credits | | |
| | CIOS A115 | Business Calculators | 1 |
| | CIOS A118 | Payroll Procedures | 2 |
| | CIOS A120A | Bookkeeping Software Apps I: QuickBooks | 1 |
| | CIOS A125A | Electronic Communications I: MS Outlook | 1 |
| | CIOS A140A | Databases I: MS Access | 1 |
| | CIOS A160 | Business English | 3 |
| | CIOS A165 | Office Procedures | 3 |
| | CIOS A220A | Bookkeeping Software Apps II: QuickBooks 2 | |
| | CIOS A235A | Spreadsheets II: MS Excel | 2 |
| | CNT A165 | Customer Service Fundamentals | 1 |
| 4. | A total of 20-25 credits is required for the nontranscripted certification of completion. | | |

Medical Office Support

The Medical Office Support nontranscripted certificate provides a solid groundwork for individuals seeking a support position in a medical office. A nontranscripted certificate of completion is available after completing this program.

- Basic Computer Skills Core (0-5 credits):
All students are required to take the following Basic Computer Skills Core courses or possess equivalent knowledge. Students may take challenge exams 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 (25 wpm minimum required)	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 I	1
- Complete 3 credits from the following:

CIOS A101*	Keyboarding (3)	3
CIOS A101B*	Keyboarding B (1)	
CIOS A101C*	Keyboarding C (1)	
CIOS A102	Keyboarding Skill Building (1-3)	
CIOS A 201	Document Processing (3)	

* Credit will not be counted for BOTH CIOS A101 (3) and CIOS A101A (1), A101B (1), and A101C (1).

- Complete the following 7 credits:

CIOS A164	Filing	1
CIOS A160	Business English	3
CIOS A264A	Records Management	2
CIOS A282	Office Internship	1
- Complete the following 10 credits:

MA A101	Medical Terminology	3
MA A120	Medical Office Procedures I	4
MA A140	Medical Transcription	3
	or	
CIOS A208	Medical Transcription	3
- A total of 20-25 credits is required for the nontranscripted certification of completion.

Web Foundations

The Web Foundations nontranscripted certificate concentrates on effective information delivery using the web. This program was created specifically for those responsible for planning, designing, producing, and maintaining an organization's Intranet or web site. A nontranscripted certificate of completion is available after completing this program.

- Basic Computer Skills Core (0-5 credits):
All students are required to take the following Basic Computer Skills Core courses or possess equivalent knowledge. Students may take challenge exams 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 (25 wpm minimum required)	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 I	1
- Complete the following 20 credits

CIOS A108	Graphic Design Fundamentals for Computer Applications	3
CIOS A117	Logic Concepts for Computer Technology	1
CIOS A140A	Databases I: MS Access	1
CIOS A152A	Digital Imaging Concepts and Applications: Photoshop	3
CIOS A153B	Web Site Design: Dreamweaver	3
CIOS A156A	Web Graphics: Fireworks	1
CIOS A246	Internet Concepts and Applications II	2
CIOS Advisor-approved Electives		6
Recommend:	Programming Fundamentals	
	Web Scripting	
	Information Security	
- A total of 20-25 credits is required for the nontranscripted department certificate of completion.

Desktop Publishing and Graphics

The Desktop Publishing and Graphics nontranscripted certificate is designed to give students the ability to be proficient in a variety of digital software programs in order to produce professional-quality print documents and visual presentations. A nontranscripted certificate of completion is available after completing this program.

- Basic Computer Skills Core (0-5 credits):
All students are required to take the following Basic Computer Skills Core courses or possess equivalent knowledge. Students may take challenge exams 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 (25 wpm minimum required)	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 I	1
- Complete the following 20 credits

CIOS A108	Graphic Design Fundamentals for Computer Applications	3
CIOS A152A	Digital Imaging Concepts and Applications: Photoshop	3
CIOS A154A	Desktop Publishing I: PageMaker	1

- | | | |
|------------|--|---|
| CIOS A160 | Business English | 3 |
| CIOS A230A | Word Processing II: MS Word | 2 |
| CIOS A251A | Desktop Publishing Concepts and Applications: InDesign | 3 |
| CIOS A254A | Desktop Publishing II: PageMaker | 2 |
| CIOS A259 | Preparing Electronic Documents: Adobe Acrobat | 1 |
| | CIOS Advisor-approved Electives | 2 |
| | Recommend: CIOS 260 Business Communications (3) | |
3. A total of 20-25 credits is required for the nontranscripted department certificate of completion.

Administrative Office Support

The Administrative Office Support nontranscripted certificate provides a solid foundation of administrative, business, and communication skills, as well as communication and interpersonal skills that provide a foundation for job opportunities in the business world. A nontranscripted certificate of completion is available after completing this program.

- Must complete the 20-25 credit Office Technology Certificate or equivalent before completing this program. 0-25
- Complete 3 credits from the following: 3

ACCT A101	Principles of Financial Accounting I (3)
ACCT A120	Bookkeeping for Business I (3)
ACCT A201	Principles of Financial Accounting (3)
- Complete the following 14 credits

CIOS A140A	Databases I: MS Access	1
CIOS A150A	Presentations I: MS PowerPoint	1
CIOS A240A	Databases II: MS Access	2
CIOS A241	Integrated Applications	3
CIOS A264A	Records Management	2
CIOS A265	Office Management	3
CIOS A270	Project Management Fundamentals	2
- Complete 3 credits from the following: 3

CIOS A282	Office Internship (1-3)
	CIOS Advisor-approved Electives (1-3)
	Recommend: CIOS 260 Business Communications (3)
- A total of 20-45 credits is required for the nontranscripted departmental certificate of completion.

Legal Office Support

The Legal Office Support nontranscripted certificate offers concentrated study in skills that a legal office support professional will need to succeed. A nontranscripted certificate of completion is available after completing this program.

- Must complete the 20-25 credit Office Technology Certificate or equivalent before completing this program. 0-25
- Complete 6 credits from the following: 6

CIOS A120A	Bookkeeping Software Applications I QuickBooks (1)
CIOS A140A	Databases I: MS Access (1)
CIOS A150A	Presentations I: MS PowerPoint (1)
CIOS A207	Machine Transcription (1)
CIOS A240A	Databases II: MS Access (2)
CIOS A241	Integrated Applications (3)
CIOS A151A	Presentations II: MS PowerPoint (2)
CIOS A260A	Business Communications (3)
CIOS A270	Project Management Fundamentals (2)
- Complete 3 credits from the following: 3

CIOS A267	Law Office Procedures: Client Documents (3)
CIOS A265	Office Management (3)

- Complete 3 credits from the following: 3

CIOS A266	Law Office Procedures: Litigation Documents (3)
BA A241	Business Law I (3)
PARL A101	Introduction to Law (3)
 - Complete 3 credits from the following: 3

CIOS A201A	Document Processing (3)
CIOS A209A	Legal Transcription (3)
 - Complete the following 5 credits: 5

CIOS A269	Alaska Rules of Civil Procedure (3)
CIOS A282	Office Internship (2)
	Recommend: Law Office Experience
 - A total of 20-45 credits is required for the nontranscripted departmental certificate of completion. 20-45
- * Representative courses. See catalog for complete list.

CERTIFICATE, COMPUTER INFORMATION AND OFFICE SYSTEMS

This Certificate prepares individuals to secure entry-level employment in positions requiring information technology and administrative support skills. Students interested in this certificate should first apply through the Office of Admissions.

ADMISSION REQUIREMENTS

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, "Academic Standards and Regulations."

ACADEMIC PROGRESS

Students must earn a satisfactory grade (C or higher, or P) in all CIOS courses required for the Certificate.

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Certificates located at the beginning of this chapter.

MAJOR REQUIREMENTS

- Basic Computer Skills Core (0-5 credits):
All students are required to take the following Basic Computer Skills Core courses or possess equivalent knowledge. Students may take challenge exams 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 (25 wpm minimum required)	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 I	1
- Complete the following requirements for the Certificate in Computer Information and Office Systems (12 credits). These requirements include: 12
Complete the following 3 credits:
ENGL A111 Methods of Written Communication (3)
Complete 3 credits from the following:
CIOS A261A Interpersonal Skills in Organizations (recommended) (3)
PSY A153 Human Relations (3)
Complete 3 credits from the following:
CIOS A116 Business Calculations (3)
MATH A102 Business Math (3)
Complete the following 3 credits:
CIOS A262A Professional Development (3)

3. Complete one (1) of the following emphasis areas: 20-40

Office Technology (20)

- a. Complete 3 credits from the following: 3

CIOS A101*	Keyboarding (3)	
CIOS A101B*	Keyboarding B (1)	
CIOS A101C*	Keyboarding C (1)	
CIOS A102	Keyboarding Skill Building (1-3)	
CIOS A201A	Document Processing (3)	

* Credit will not be counted for BOTH CIOS A101 (3) and CIOS A101A (1), A101B (1), and A101C (1).

- b. Complete the following 15 credits:

CIOS A125A	Electronic Communications: MS Outlook (1)	
CIOS A160	Business English	3
CIOS A161A	Proofreading	1
CIOS A164	Filing	1
CIOS A165	Office Procedures	3
CIOS A230A	Word Processing II: MS Word	2
CIOS A235A	Spreadsheets II: MS Excel	2
CIOS A259	Preparing Electronic Documents: Adobe Acrobat	1
CNT A165	Customer Service Fundamentals	1

- c. Complete 2 credits from the following: 2

CIOS A282	Office Internship (1-2)	
CIOS Advisor-approved Electives	(1-2)	

4. A total of 32-37 credits required for the certificate.

Bookkeeping (20)

- a. Complete 3 credits from the following: 3

ACCT A101	Principles of Financial Accounting I (3)	
ACCT A120	Bookkeeping for Business I (3)	
ACCT A201	Principles of Financial Accounting (3)	

- b. Complete the following 17 credits:

CIOS A115	Business Calculators	1
CIOS A118	Payroll Procedures	2
CIOS A120A	Bookkeeping Software Apps I: QuickBooks	1
CIOS A125A	Electronic Communications I: MS Outlook	1
CIOS A140A	Databases I: MS Access	1
CIOS A160	Business English	3
CIOS A165	Office Procedures	3
CIOS A220A	Bookkeeping Software Apps II: QuickBooks	2
CIOS A235A	Spreadsheets II: MS Excel	2
CNT A165	Customer Service Fundamentals	1

4. A total of 32-37 credits required for the certificate.

Web Foundations (20)

- a. Complete the following 20 credits:

CIOS A108	Graphic Design Fundamentals for Computer Applications	3
CIOS A117	Logic Concepts for Computer Technology	1
CIOS A140A	Databases I: MS Access	1
CIOS A152A	Digital Imaging Concepts and Applications: Photoshop	3
CIOS A153B	Web Site Design: Dreamweaver	3
CIOS A156A	Web Graphics: Fireworks	1
CIOS A246	Internet Concepts and Applications II	2
CIOS Advisor-approved Electives		6

Recommend: Programming Fundamentals
Web Scripting Information Security

4. A total of 32-37 credits required for the certificate.

Desktop Publishing and Graphics (20)

- a. Complete the following 20 credits:

CIOS A108	Graphic Design Fundamentals for Computer Applications	3
CIOS A152A	Digital Imaging Concepts and Applications: Photoshop	3
CIOS A154A	Desktop Publishing I: PageMaker	1
CIOS A160	Business English	3
CIOS A230A	Word Processing II: MS Word	2
CIOS A251A	Desktop Publishing Concepts and Applications: InDesign	3
CIOS A254A	Desktop Publishing II: PageMaker	2
CIOS A259	Preparing Electronic Documents: Adobe Acrobat	1
CIOS Advisor-approved Electives		2

Recommend: CIOS 260 Business Communications(3)

4. A total of 32-37 credits required for the certificate.

Medical Office Support (20)

- a. Complete 3 credits from the following: 3

CIOS A101*	Keyboarding (3)	
CIOS A101B*	Keyboarding B (1)	
CIOS A101C*	Keyboarding C (1)	
CIOS A102	Keyboarding Skill Building (1-3)	
CIOS A 201	Document Processing (3)	

* Credit will not be counted for BOTH CIOS A101 (3) and CIOS A101A (1), A101B (1), and A101C (1).

- b. Complete the following 7 credits:

CIOS A164	Filing	1
CIOS A160	Business English	3
CIOS A264A	Records Management	2
CIOS A282	Office Internship	1

- c. Complete the following 10 credits:

MA A101	Medical Terminology	3
MA A120	Medical Office Procedures I	4
MA A140	Medical Transcription (3)	3
-or-		
CIOS A208	Medical Transcription (3)	

4. A total of 32-37 credits required for the certificate.

Administrative Office Support (20-40)

- a. Must complete the Office Technology emphasis or equivalent before completing the following. 0-20

- b. Complete 3 credits from the following: 3

ACCT A101	Principles of Financial Accounting I (3)	
ACCT A120	Bookkeeping for Business I (3)	
ACCT A201	Principles of Financial Accounting (3)	

- c. Complete the following 14 credits:

CIOS A140A	Databases I: MS Access	1
CIOS A150A	Presentations I: MS PowerPoint	1
CIOS A240A	Databases II: MS Access	2
CIOS A241	Integrated Applications	3
CIOS A264A	Records Management	2
CIOS A265	Office Management	3
CIOS A270	Project Management Fundamentals	2

- d. Complete 3 credits from the following: 3

CIOS A282	Office Internship (1-3)	
CIOS Advisor-approved Electives	(1-3)	
Recommend:	CIOS 260 Business Communications (3)	

4. A total of 32-37 credits is required for the certificate.

Legal Office Support (20-40)

- a. Must complete the Office Technology emphasis or equivalent before completing the following. 0-20
- b. Complete 6 credits from the following: 6

CIOS A120A	Bookkeeping Software Applications I: QuickBooks (1)	
CIOS A140A	Databases I: MS Access (1)	
CIOS A150A	Presentations I: MS PowerPoint (1)	
CIOS A207	Machine Transcription (1)	
CIOS A240A	Databases II: MS Access (2)	
CIOS A241	Integrated Applications (3)	
CIOS A151A	Presentations II: MS PowerPoint (2)	
CIOS A260A	Business Communications (3)	
CIOS A270	Project Management Fundamentals (2)	
- c. Complete 3 credits from the following: 3

CIOS A267	Law Office Procedures: Client Documents (3)	
CIOS A265	Office Management (3)	
- d. Complete 3 credits from the following: 3

CIOS A266	Law Office Procedures: Litigation Documents (3)	
BA A241	Business Law I (3)	
PARL A101	Introduction to Law (3)	
- e. Complete 3 credits from the following: 3

CIOS A201A	Document Processing (3)	
CIOS A209A	Legal Transcription (3)	
- f. Complete the following 5 credits:

CIOS A269	Alaska Rules of Civil Procedure	3
CIOS A282	Office Internship	2
Recommend:	Law Office Experience	
4. A total of 32-37 credits is required for the Certificate.

ASSOCIATE OF APPLIED SCIENCE, COMPUTER INFORMATION AND OFFICE SYSTEMS

This degree prepares individuals to secure entry-level employment in positions requiring information technology and administrative support skills.

ADMISSION REQUIREMENTS

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, "Academic Standards and Regulations."

ACADEMIC PROGRESS

Students must earn a satisfactory grade (C or higher, or P) in all CIOS courses required for the degree.

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.

Note: Students should consider courses from the Baccalaureate Degree General Education Requirements List to prepare for possible future Baccalaureate degree work.

MAJOR REQUIREMENTS

1. Basic Computer Skills Core (0-5 credits):
All students are required to take the following Basic Computer Skills Core courses or possess equivalent knowledge. Students may take challenge exams 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 (25 wpm minimum required)	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 I	1
2. Complete 3 credits from the following: 3

CIOS A116	Business Calculations (3)	
MATH A102	Business Math (3)	
3. Complete the following 3 credits:

CIOS A262A	Professional Development	3
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4. Complete two (2) of the following emphasis areas: 40-60

Office Technology (20)

- a. Complete 3 credits from the following: 3

CIOS A101*	Keyboarding (3)	
CIOS A101B*	Keyboarding B (1)	
CIOS A101C*	Keyboarding C (1)	
CIOS A102	Keyboarding Skill Building (1-3)	
CIOS A201A	Document Processing (3)	
- * Credit will not be counted for BOTH CIOS A101 (3) and CIOS A101A (1), A101B (1), and A101C (1).*
- b. Complete the following 15 credits:

CIOS A125A	Electronic Communications: MS Outlook	1
CIOS A160	Business English	3
CIOS A161A	Proofreading	1
CIOS A164	Filing	1
CIOS A165	Office Procedures	3
CIOS A230A	Word Processing II: MS Word	2
CIOS A235A	Spreadsheets II: MS Excel	2
CIOS A259	Preparing Electronic Documents: Adobe Acrobat	1
CNT A165	Customer Service Fundamentals	1
 - c. Complete 2 credits from the following: 2

CIOS A282	Office Internship (1-2)	
CIOS Advisor-approved Electives	(1-2)	

Bookkeeping (20)

- a. Complete 3 credits from the following: 3

ACCT A101	Principles of Financial Accounting I (3)	
ACCT A120	Bookkeeping for Business I (3)	
ACCT A201	Principles of Financial Accounting (3)	
- b. Complete the following 17 credits:

CIOS A115	Business Calculators	1
CIOS A118	Payroll Procedures	2
CIOS A120A	Bookkeeping Software Apps I: QuickBooks	1
CIOS A125A	Electronic Communications I: MS Outlook	1
CIOS A140A	Databases I: MS Access	1
CIOS A160	Business English	3
CIOS A165	Office Procedures	3
CIOS A220A	Bookkeeping Software Apps II: QuickBooks	2
CIOS A235A	Spreadsheets II: MS Excel	2
CNT A165	Customer Service Fundamentals	1

Web Foundations (20)

- a. Complete the following 20 credits:
- | | | |
|---------------------------------|---|---|
| CIOS A108 | Graphic Design Fundamentals for Computer Applications | 3 |
| CIOS A117 | Logic Concepts for Computer Technology | 1 |
| CIOS A140A | Databases I: MS Access | 1 |
| CIOS A152A | Digital Imaging Concepts and Applications: Photoshop | 3 |
| CIOS A153B | Web Site Design: Dreamweaver | 3 |
| CIOS A156A | Web Graphics: Fireworks | 1 |
| CIOS A246 | Internet Concepts and Applications II | 2 |
| CIOS Advisor-approved Electives | | 6 |
| Recommend: | Programming Fundamentals | |
| | Web Scripting Information Security | |

Desktop Publishing and Graphics (20)

- a. Complete the following 20 credits:
- | | | |
|---------------------------------|--|---|
| CIOS A108 | Graphic Design Fundamentals for Computer Applications | 3 |
| CIOS A152A | Digital Imaging Concepts and Applications: Photoshop | 3 |
| CIOS A154A | Desktop Publishing I: PageMaker | 1 |
| CIOS A160 | Business English | 3 |
| CIOS A230A | Word Processing II: MS Word | 2 |
| CIOS A251A | Desktop Publishing Concepts and Applications: InDesign | 3 |
| CIOS A254A | Desktop Publishing II: PageMaker | 2 |
| CIOS A259 | Preparing Electronic Documents: Adobe Acrobat | 1 |
| CIOS Advisor-approved Electives | | 2 |
| Recommend | CIOS 260 Business Communications (3) | |

Medical Office Support (20)

- a. Complete 3 credits from the following: 3
- | | |
|-------------|----------------------------------|
| CIOS A101* | Keyboarding (3) |
| CIOS A101B* | Keyboarding B (1) |
| CIOS A101C* | Keyboarding C (1) |
| CIOS A102 | Keyboarding Skill Building (1-3) |
| CIOS A 201 | Document Processing (3) |
- * Credit will not be counted for BOTH CIOS A101 (3) and CIOS A101A (1), A101B (1), and A101C (1).
- b. Complete the following 7 credits:
- | | | |
|------------|--------------------|---|
| CIOS A164 | Filing | 1 |
| CIOS A160 | Business English | 3 |
| CIOS A264A | Records Management | 2 |
| CIOS A282 | Office Internship | 1 |
- c. Complete the following 10 credits:
- | | | |
|-----------|-----------------------------|---|
| MA A101 | Medical Terminology | 3 |
| MA A120 | Medical Office Procedures I | 4 |
| MA A140 | Medical Transcription (3) | 3 |
| | or | |
| CIOS A208 | Medical Transcription (3) | |

Administrative Office Support (20-40)

- a. Must complete the Office Technology emphasis or equivalent before completing the following. 0-20
- b. Complete 3 credits from the following: 3
- | | |
|-----------|--|
| ACCT A101 | Principles of Financial Accounting I (3) |
| ACCT A120 | Bookkeeping for Business I (3) |
| ACCT A201 | Principles of Financial Accounting (3) |

- c. Complete the following 14 credits:
- | | | |
|------------|---------------------------------|---|
| CIOS A140A | Databases I: MS Access | 1 |
| CIOS A150A | Presentations I: MS PowerPoint | 1 |
| CIOS A240A | Databases II: MS Access | 2 |
| CIOS A241 | Integrated Applications | 3 |
| CIOS A264A | Records Management | 2 |
| CIOS A265 | Office Management | 3 |
| CIOS A270 | Project Management Fundamentals | 2 |
- d. Complete 3 credits from the following: 3
- | | |
|---------------------------------------|--------------------------------------|
| CIOS A282 | Office Internship (1-3) |
| CIOS Advisor-approved Electives (1-3) | |
| Recommend | CIOS 260 Business Communications (3) |

Legal Office Support (20-40)

- a. Must complete the Office Technology emphasis or equivalent before completing the following. 0-20
- b. Complete 6 credits from the following: 6
- | | |
|------------|---|
| CIOS A120A | Bookkeeping Software Applications I: QuickBooks (1) |
| CIOS A140A | Databases I: MS Access (1) |
| CIOS A150A | Presentations I: MS PowerPoint (1) |
| CIOS A207 | Machine Transcription (1) |
| CIOS A240A | Databases II: MS Access (2) |
| CIOS A241 | Integrated Applications (3) |
| CIOS A151A | Presentations II: MS PowerPoint (2) |
| CIOS A260A | Business Communications (3) |
| CIOS A270 | Project Management Fundamentals (2) |
- c. Complete 3 credits from the following: 3
- | | |
|-----------|---|
| CIOS A267 | Law Office Procedures: Client Documents (3) |
| CIOS A265 | Office Management (3) |
- d. Complete 3 credits from the following: 3
- | | |
|-----------|---|
| CIOS A266 | Law Office Procedures: Litigation Documents (3) |
| BA A241 | Business Law I (3) |
| PARL A101 | Introduction to Law (3) |
- e. Complete 3 credits from the following: 3
- | | |
|------------|-------------------------|
| CIOS A201A | Document Processing (3) |
| CIOS A209A | Legal Transcription (3) |
- f. Complete the following 5 credits:
- | | | |
|------------|---------------------------------|---|
| CIOS A269 | Alaska Rules of Civil Procedure | 3 |
| CIOS A282 | Office Internship | 2 |
| Recommend: | Law Office Experience | |

5. A total of 61-86 credits is required for the degree.

FACULTY

Kim Griffis, Assistant Professor, AFKAG@uaa.alaska.edu

COMPUTER SYSTEMS TECHNOLOGY

<http://ctc.uaa.alaska.edu>

University Center (UC), Suite 130, 907-786-6423

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 general education courses.

Graduates with an AAS in Computer Systems Technology can be employed as systems administrators and in a wide variety of other positions in the Information Technology field. Graduates of this program will have a firm understanding of a wide variety of technical concepts, from the latest version of the Windows Operating System to routing and switching technology using Cisco equipment. Graduates will also have a wide body of knowledge in vendor neutral and theoretical concepts and practices.

Both the Matanuska-Susitna campus and the Kodiak campus offer the degree program.

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.

GRADUATION REQUIREMENTS

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

1. Complete the General University Requirements for Associate Degrees listed at the beginning of this chapter.
2. Complete the Associate of Applied Science General Degree Requirements (including Oral Communications and ENGL A111) listed at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses:

MATH A105	Intermediate Algebra (3)	3-4
	or	
MATH A107	College Algebra (4)	
	or	
MATH A270	Applied Finite Mathematics for the Managerial Sciences (3)	
ENGL A212	Technical Writing	3
BA A231	Fundamentals of Supervision	3
BA A151	Introduction to Business	3
CNT A276	Individual Technical Project	3
	or	
CNT A282	Industry Workplace Experience	
CNT A210	PC Technician Fundamentals	3
CNT A212	Network Technician Fundamentals	3

CNT A165	Customer Service Fundamentals	1
CNT A160	PC Operating Systems	3
CNT A240	Windows 2000 System Essentials	2
CNT A241	Administering and Supporting Windows 2000 Professional and Server	3
CNT A242	Windows 2000 Network Infrastructure Administration	3
CNT A243	Windows 2000 Directory Services Administration	3
CNT A244	Designing Secure Windows 2000 Networks	3
CNT A245	Windows 2000 Directory Services Design	2
CNT A246	Windows 2000 Network Infrastructure Design	2
CNT A170	Cisco Academy Network Fundamentals	3
CNT A261	Cisco Router Fundamentals	3
CNT A270	Cisco Academy LAN Management	3
CNT A271	Cisco Academy WAN Management	3

2. Students are required to meet a two (2) credit Project Management requirement. See advisor for more information.
3. A total of 63-64 credits are required for the degree.

CONSTRUCTION MANAGEMENT

University Center (UC), Room 130, (907) 786-6423

The Construction Management (CM) program seeks to meet the growing needs of the construction industry by training entry-level construction managers and by providing continuing education for construction employees. 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 safety of employees and the general public. Construction managers determine construction means and methods and the most cost effective plans and schedules. They track construction costs and administer contract changes to the project budget to maximize profitability. Construction managers monitor work progress to ensure compliance with architectural and engineering drawings and specifications. Construction managers work in all phases of the construction business - public and private owners; small multifamily projects to the largest of skyscrapers and industrial projects; rural roads to major highways. Construction managers work closely with architects, engineers, owners, and the various contractors on a construction job. The construction manager's duties are varied, challenging, and rewarding.

The Construction Management program at UAA was developed with input from local contractors and professional industry organizations and provides students with a broad knowledge of building systems and construction techniques. CM graduates understand basic principles of business and have knowledge of the technical aspects of the construction industry. Graduates are able to function both in the construction office and on the job site.

The CM Associate of Applied Science (AAS) degree requires 4 to 5 semesters to complete.

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 consult the faculty in the Construction Management Department for assistance in designing their course of study to ensure all prerequisites have been met and that university and major degree requirements are understood and followed.

PREPARATION

Students seeking the Associate of Applied Science 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 A107.)
English	Composition (Skill level as demonstrated by ACT, SAT, or UAA approved placement test to qualify for enrollment in ENGL A111.)

The University offers courses to help students without this preparation to meet the skill level 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

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) 786-6426 for further information.

GRADUATION REQUIREMENTS

In order to receive the AAS in Construction Management, students must achieve a grade of "C" or better in all courses required for the certificate.

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 (57 credits):

ACCT A201	Principles of Financial Accounting	3
ACCT A202	Principles of Managerial Accounting	3
CM A101	Fundamentals of CADD	4
CM A102	Methods of Building Construction	3
CM A123	Codes and Standards	3
CM A142	Mechanical and Electrical Technology	4
CM A163	Building Construction Cost Estimating	3
CM A201	Construction Project Management	3
CM A202	Project Planning and Scheduling	3
CM A205	Construction Safety	3
CM A213	Civil Technology	4
CM A231	Structural Technology	4
CM A263	Civil Construction Cost Estimating	3

CM A295	CM Internship	3
MATH A107	College Algebra	4
MATH A108	Trigonometry	3
PHYS A123	Basic Physics 1 w/ Lab	4

2. A total of 66 credits is required for the degree.

FACULTY

Jeffrey Callahan, Assistant Professor, callahan@uaa.alaska.edu

CULINARY ARTS

Lucy Cuddy Hall (CUDY), Room 126, (907) 786-4728

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. Additionally, this division offers a non-transcripted departmental certificate of completion for Dietary Manager.

Persons employed in the foodservice industry who wish to update skills and knowledge may take culinary courses randomly. 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, and other related operations.

The Associate of Applied Science 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 Associate of Applied science 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.

The Bachelor's degree generally takes four to five years of study to complete. Through an agreement with the University of Nevada Las Vegas (UNLV) and Northern Arizona University (NAU), students seeking the Bachelor degree are required to complete two semesters of hospitality/hotel/restaurant management studies at either UNLV (minimum 27 upper division credits) or NAU (minimum 24 upper division credits). Please note that students may have to pay non-resident tuition for out of state study.

The capstone experience for the Bachelor's degree is an 800 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 hotel/restaurant 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; 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.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE OF COMPLETION, DIETARY MANAGER

A Dietary Manager is a skilled and experienced generalist capable of assuming responsibility for all aspects of foodservice operations in consultation with a Registered Dietitian. Dietary Managers are employed by hospitals, nursing homes, schools, hotels, correctional facilities, pipeline camps, child care centers, senior citizen meal programs, and residential or retirement centers. The Joint Commission on the Accreditation of Health Care Organizations requires all hospital and nursing home foodservice supervisors to be Certified Dietary Managers.

The Dietary Manager component of the Culinary Arts program at UAA is a twenty credit group of courses designed to provide quality education and training to individuals currently employed in the foodservice industry or for college students who have completed Culinary Arts courses. One hundred and ninety hours of on-the-job work experience in health care related institutional foodservice is required by the Dietary Managers Association. The lectures are enhanced by the practicum experiences that reinforce foodservice skills, managerial operations, and nutritional care applications.

This program is accredited by the Dietary Managers Association of Lombard, Illinois. Upon completion, the student is eligible to: (1) apply for membership in the Dietary Managers Association (DMA) and (2) take the DMA certification examination.

ADMISSION REQUIREMENTS

Students must complete the following admission procedure:

1. Submit proof of graduation from high school or equivalent (GED).
2. Submit completed application form (obtained from Culinary Arts, (907) 786-4728).
3. Request official transcripts from high school (and college, if applicable). Send to:

UAA Dietary Manager Program
Culinary Arts and Hospitality
Cuddy Hall 108
3211 Providence Drive
Anchorage AK 99508
(907) 786-4728

4. Schedule UAA approved placement test with Testing Coordinator, Testing and Assessment Services, please call (907) 786-4500. The center forwards test results to the Culinary Arts Office. If test score is low, remedial course work will be recommended.

Application to the program may be made at any time. Certain courses may be offered every two years. For more information, contact the Culinary Arts Program at (907) 786-4728.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses (22 credits):

CA A102	Nutrition	3
CA A104	Sanitation	2
CA A105	Principles of Food Science	3
CA A107	Culinary Cost Control	2
CA A220	Foodservice Operations	3
CA A230	Foodservice Management	3
CA A295A	Foodservice Operations Practicum	1
CA A295B	Foodservice Management Practicum	1
DN A250	Introduction to Diet Therapy	3
DN A295	Nutritional Care Practicum	1

2. A total of 22 credits is required for the nontranscripted departmental certificate of completion.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE, FLORAL DESIGN

The nontranscripted Floral Design Program prepares students for work in the floral industry. Courses cover basic and advanced designs and styles including weddings, funerals, and other special events and treatments, as well as operations, management and processes specific to the industry. Instruction is delivered through classroom lectures, demonstrations, laboratories, and beginning and advanced practica. Courses will be offered when sufficient enrollment permits.

1. Students must complete the following required courses (18 credits):

BA A166	Small Business Management	3
FD A161	Floral Design I	3
FD A162	Floral Design II	3
FD A163	Floral Design III	3
FD A164	Floral Design IV	3
FD A195A	Floral Design Practicum I	1
FD A195B	Floral Design Practicum II	2

2. Students must demonstrate computer competency in one of three ways: a three credit computer course; work-related experience verifying computer competency as approved by faculty advisor; or self-initiated computer competency as approved by faculty advisor.

ASSOCIATE OF APPLIED SCIENCE, CULINARY ARTS ADMISSION REQUIREMENTS

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, "Academic Standards and Regulations."

DEPARTMENT APPLICATION REQUIREMENTS

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. 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.
3. Contact Testing and Assessment Services (786-4500) to schedule and take a UAA approved placement test of basic math and language arts 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.

4. 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):

CA A102	Nutrition	3
CA A104	Sanitation	2
CA A105	Principles of Food Science	3
CA A107	Culinary Cost Control	2
CA A110	Quantity Food Purchasing	2

Computer Competency Requirement

The AAS in Culinary Arts requires demonstrated computer competency evidenced by any of the following:

1. A 3 credit or equivalent course using one or more of the following applications: wordprocessing, spreadsheets, databases, and communications, or an introductory course in data processing or microcomputers.
2. Participate in a work related experience whereby faculty or employer can verify computer competency.
3. Undertake a self-initiated, independent effort to develop computer competency as approved by faculty advisor.

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 (37 credits):

CA A102	Nutrition	3
CA A103	Culinary Skill Development	4
CA A104	Sanitation	2
CA A105	Principles of Food Science	3
CA A107	Culinary Cost Control	2
CA A110	Quantity Food Purchasing	2
CA A111	Bakery Skill Development	4
CA A201	A la Carte Kitchen	4
CA A202	Advanced Bakery	4
CA A224	Hospitality Service	3
CA A230	Foodservice Management	3
CA A295C	Foodservice Internship	3
2. Complete a minimum of 8 credits from the following:

CA A113	Culinary Meats and Charcuterie (3)	3
CA A114	Beverages (2)	2
CA A220	Foodservice Operations (3)	3
CA A223	Advanced Foods: Buffet and Garde Manger (3)	3
CA A225	Menu Making/Facility Layout and Design (3)	3
*CA A490	Current Topics in Foodservice and Nutrition (1-6)	1-6

**Only 3 credits of CA A490 may be applied to the AAS Culinary Arts degree.*

3. A total of 60 credits is required for the degree.

BACHELOR OF ARTS, HOSPITALITY AND RESTAURANT MANAGEMENT

ADMISSION REQUIREMENTS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, "Academic Standards and Regulations."

DEPARTMENT ADMISSION REQUIREMENTS

1. Contact the Culinary Arts and Hospitality Division by calling 786-4728, for an appointment with a faculty advisor to plan a personal program of study.
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.
3. Contact Testing and Assessment Services (786-4500) to schedule and take a UAA approved placement test of basic math and language arts 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.

Computer Literacy Requirement

The department requires that Hospitality and Restaurant Management students attain a basic level of computer competency either before they enter the program or early in their studies. Basic competency is demonstrated by the ability to use wordprocessing, spreadsheets, databases and communications programs. Consistent with industry performance standards, each of the core theory courses includes at least one activity that requires using a computer program. Students may develop or enhance computer competency by any of the following means:

1. Enroll in a 3 credit or equivalent course using one or more of the following applications: wordprocessing, spreadsheets, databases, and communications, or an introductory course in data processing or microcomputers.
2. Participate in a work-related experience whereby faculty or employer can verify computer competency.
3. Undertake a self-initiated, independent effort to develop computer competency as approved by faculty advisor.

GRADUATION REQUIREMENTS

Students must complete the following 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 (GER) for Baccalaureate Degree located at the beginning of this chapter. Students are encouraged to coordinate their course selection with their program 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, ENVI A202, FREN A101 and FREN A102 or SPAN A101 and SPAN A102, and MATH A107, SOC A101 and PSY A111.

C. MAJOR REQUIREMENTS

1. Culinary Core
Complete all of the following courses (30 credits):

CA A102	Nutrition
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3

CA A103	Culinary Skill Development	4
CA A104	Sanitation	2
CA A105	Principles of Food Science	3
CA A107	Culinary Cost Control	2
CA A110	Quantity Food Purchasing	2
CA A111	Bakery Skill Development	4
CA A201	A la Carte Kitchen	4
CA A224	Hospitality Service	3
CA A225	Menu Making/Facility Layout and Design	3

2. Business Core

Complete all of the following courses (30 credits):

Note: To meet prerequisites, the following courses must be taken in a certain sequence. You are encouraged to plan your course schedule with the program advisor.

ACCT A201	Principles of Financial Accounting	3
ACCT A202	Principles of Managerial Accounting	3
ACCT A316	Accounting Information Systems	3
AS A252	Applied Statistics	3
BA A300	Organizational Theory and Behavior	3
BA A310	Consumer Behavior	3
BA A343	Principles of Marketing	3
BA A361	Human Resource Management	3
BA A463	Promotion Management	3
CIS A110	Computer Concepts in Business	3

3. Hospitality and Restaurant Management Core

Complete a minimum of 24 upper division (300 or higher) credits at NAU or a minimum of 27 upper division credits at UNLV. Note: Students MUST complete the General University Requirements, the Baccalaureate General Education Requirements, the Culinary Core and the Business Core before they complete the Hospitality and Restaurant Management Core. Also, to ensure admission, students MUST apply to transfer to NAU or UNLV one semester before they plan to attend. UNLV requires transfer students to have an overall GPA of 2.5. Choose either NAU or UNLV:

Northern Arizona University (NAU)

a. Complete the following (15 credits):

HA 335	Hospitality Law	3
HA 345	Human Resource Management	3
HA 355	Food and Beverage Cost Control	3
HA 400	Hospitality Sales Management	3
HA 490	Senior Seminar (last semester at NAU)	3

b. Complete three courses from the following (9 credits):

HA 340	Beverage and Bar Operations (3) (Must be 21 or older)	9
HA 390	International Hospitality Operations (3)	
HA 401	Resort Management (spring semesters) (3)	
HA 411	Club Management (spring semesters) (3)	
HA 435	Hospitality Litigation (fall semesters) (3)	
HA 477	Casino Management (fall semesters) (3)	

University of Nevada Las Vegas (UNLV)

Complete the following (27 credits):

HMD 114	Lodging Operations	3
HMD 312	Exec. Planning/Housekeeping Operations	3
HMD 395	Facilities Management	3
HMD 401	Hotel Law	3
HMD 410	Hospitality Security/Preservation of Assets	3
TCA 311	Destination Management	
	Company Administration	3
TCA 379	Catering Sales and Operations	3

TCA 385	Convention Service Management	3
HMD or TCA	Elective (300 level or higher)	3

4. Internship Requirement

CA A495	Hospitality Internship	6
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5. A total of 124 credits (if NAU selected), or a total of 127 credits (if UNLV selected) is required for the degree of which 42 must be upper division.

FACULTY

Timothy Doebler, Director, AFTWD@uaa.alaska.edu
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DENTAL ASSISTING

<http://alliedhealth.uaa.alaska.edu/dental>
Allied Health Sciences Building (AHS), Room 160, (907) 786-6929

If you like helping people, enjoy working with your hands as well as your mind, and want a job with responsibility, a career in dental assisting may be for you.

The Dental Assisting program 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 provide oral health care during a variety of procedures; 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 following surgery or some other type of dental treatment; showing patients how to brush and floss; making impressions of patients' teeth for study casts; performing office management tasks, such as scheduling appointments, answering the telephone, billing, and inventory control; and performing basic procedures in the dental office laboratory, such as trimming models, polishing appliances, and fabricating temporaries.

Since most dentists employ two or three dental assistants, employment opportunities in this field are widespread. Many types of practice settings are available to dental assistants. For example, 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.

There are many advantages to a career in dental assisting. Dental assisting is a real challenge, demanding versatility and a willingness to assume responsibility for a variety of different tasks. If you want outstanding working conditions where you will be in demand, dental assisting may be a career for you.

The Dental Assisting program is an 8-month program of classroom instruction and clinical experience. A certificate of completion is awarded after fulfilling requirements of this program. In addition, an associate of applied science degree is available for graduates who wish to complete additional courses required for a degree. A faculty advisor in the Dental Assisting program should be consulted prior to entry in the program.

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 eligible to take the Dental Assisting National Board examination in General Chairside Assisting and upon successful completion will become Certified Dental Assistants.

ADMISSION TO THE PROGRAM

Special admission requirements and screening procedures are required. It is strongly recommended that interested individuals contact the advisor in the Department of Dental Assisting to review procedures and requirements for admission.

PREREQUISITES

Graduation from high school or equivalent (GED).

APPLICATION PROCEDURE

1. Complete a dental assisting application form and mail to the address below.
2. Request official transcripts from high school (and college, if applicable). Send to:
UAA Dental Assisting Program
Allied Health Sciences Building, Room 160
3211 Providence Drive
Anchorage AK 99508-8371
(907) 786-6929
3. Contact Testing and Assessment Services at (907) 786-4500 to schedule the required testing for admission to the Dental Assisting program. The center will forward test results to the Dental Assisting program. If test scores are low, additional course work will be recommended to help you achieve your goal of completing the Dental Assisting program.
4. Request two letters of recommendation to be sent to the Dental Assisting program. Preferably these letters should come from former or current employers or instructors. The letters must include comments on applicant's ability, motivation, interpersonal skills, communication skills, and work habits.
5. The information listed above must be in applicant's file before they will be considered for enrollment in the program in the fall semester of the year applying.

Applications to the program may be made at any time; however, for enrollment in the fall semester, application must be completed by August 1. Applicants are encouraged to apply as early as possible so they can complete classes identified by test results as being necessary for successful completion of the program.

Selection Criteria - Applicants 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. 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.

CERTIFICATE, DENTAL ASSISTING

ADMISSION REQUIREMENTS

See Admission to the Program and Application Procedure above.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses (36 credits):

DA A110	Dental Radiography	4
DA A121	Chairside Procedures I	6
DA A122	Chairside Procedures II	8
DA A123	Biomedical Sciences for Dental Assistants	4
DA A124	Dental Materials and Application I	2
DA A125	Dental Materials and Application II	2
DA A126	Dental Sciences for Dental Assistants	1
DA A127	Dental Practice Management and Professionalism	3
DA A128	Dental Communication Skills	2
DA A195A	Dental Assisting Practicum I	1
DA A195B	Dental Assisting Practicum II	3
2. A total of 36 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, DENTAL ASSISTING

ADMISSION REQUIREMENTS

See Admission to the Program and Application Procedure.

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 (46 credits):

DA A110	Dental Radiography	4
BIOL A102	Introductory Biology (3)	4
	and	
BIOL A103	Introductory Biology Laboratory (1)	
	or	
BIOL A115	Fundamentals of Biology I (4)	
DA A121	Chairside Procedures I	6
DA A122	Chairside Procedures II	8
DA A123	Biomedical Sciences for Dental Assistants	4
DA A124	Dental Materials and Application I	2
DA A125	Dental Materials and Application II	2
DA A126	Dental Sciences for Dental Assistants	1
DA A127	Dental Practice Management and Professionalism	3
DA A128	Dental Communication Skills	2
DA A195A	Dental Assisting Practicum I	1
DA A195B	Dental Assisting Practicum II	3
DN A203	Normal Nutrition (3)	3
	or	
CA A102	Nutrition (3)	
PSY A100	Understanding People (3)	3
	or	

PSY A150 Life Span Development (3)

or

PSY/HUMS A153 Human Relations (3)

2. Electives to total 60 credits.

3. A total of 60 credits is required for the degree.

5

FACULTY

Nancy Bish, Associate Professor, AFNKB@uaa.alaska.edu

Stephanie Olson, Assistant Professor, AFSMO1@uaa.alaska.edu

DENTAL HYGIENE

<http://alliedhealth.uaa.alaska.edu/dental>

Allied Health Sciences Building (AHS), Room 160, (907) 786-6929

The registered dental hygienist is a licensed oral health educator and clinical operator who, as an auxiliary to the dentist, uses preventive, educational, and therapeutic methods which aid individuals and groups to attain and maintain optimum oral health. Dental hygiene services are utilized in general and specialty dental practices, in the armed services, and in programs for research, professional education, public health, school health, industrial health, and institutional and hospital care.

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.

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 course work in dental hygiene. The program prepares graduates clinically and academically to take the National and Western Regional Examining Boards for licensure.

The Dental Program application form asks a question concerning conviction of a misdemeanor felony. While conviction of a felony does not automatically bar a student from consideration for or selection to the Dental Hygiene program, conviction of a felony within five years of licensure application is evidence of unacceptable moral character and may result in denial of licensure. (Alaska Statutes 28.910, January, 2001).

Due to the nature of the work of the dental hygienist, students are not permitted to work in the laboratory or clinic when under the influence of intoxicants, drugs or medications affecting psychomotor responses. Students suspected of substance abuse may be subjected to a drug test.

Possible transfer of credits is available to graduates of an ADA accredited dental assisting program. Contact the Dental Hygiene program advisor for details.

Expenses beyond tuition generally include activity fees, criminal background check, instruments, uniforms, lab fees, student organization membership, graduation pin, immunizations, cost of a yearly BLS class, licensure fees, student health insurance, and malpractice insurance for the Western Regional Examining Boards, 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. Students are responsible for securing both adult and child patients to satisfy clinical requirements.

ASSOCIATE OF APPLIED SCIENCE, DENTAL HYGIENE

ADMISSION REQUIREMENTS

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.

1. Applicants must meet with the UAA Dental Hygiene Program advisor regarding application and program admission requirements prior to application deadline.
2. Graduation from high school or equivalent.
3. Documentation from official transcripts showing successful completion of the following science courses with a cumulative GPA of at least 2.5: CHEM A103/ A103L, CHEM A104/ A104L, BIOL A111, BIOL A112, BIOL A240. Courses must be completed by the application deadline.
4. Documentation from official transcripts showing successful completion of the following general requirements courses with a cumulative GPA of at least 2.5: HUMS/PSY A153 or PSY A111, SOC A101, ENGL A111, COMM A111 (or COMM A235 or COMM A237 or COMM A241). Courses must be completed by the application deadline.

APPLICATION PROCEDURE

To be considered for admission, the application process must be completed by May 20th for acceptance into the program beginning in the fall of the same year.

1. Complete the Dental Hygiene program application and submit to the address below.
2. Provide proof of admittance into the University of Alaska Anchorage.
3. Request official transcripts be sent to the Dental Hygiene program to provide proof of completion of the courses listed under Admission Requirements 3 and 4.

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
(907) 786-6929

Immunizations and Basic Life Support (BLS) certification are required by November of the first year enrolled in clinical courses. BLS certification and immunizations must be current throughout the program.

ACADEMIC PROGRESS

Students must earn at least 75 percent or higher in each dental hygiene course.

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).

MAJOR REQUIREMENTS

1. Complete the following required courses:

Fall Semester - 1st year (18 credits)

DA A110	Dental Radiography	4
DH A111	Periodontics I	2
DH A112	Techniques I for Dental Hygienists	7
DH A114	Anatomy of the Orofacial Structures	2
*DN A203	Normal Nutrition (3)	3
	or	
*CA A102	Nutrition (3)	

**Due to a heavy credit load, it is recommended that the nutrition course be taken prior to formal admission into the Dental Hygiene program.*

Spring Semester - 1st year (14 credits):

DH A113	Issues in Dental Hygiene	1
DH A121	Periodontics II	2
DH A122	Techniques II for Dental Hygienists	4
DH A165	Pharmacology for Dental Hygienists	2
DH A192	Clinical Seminar I	1
DH A195A	Clinical Practicum I	4

Fall Semester - 2nd year (16 credits):

DH A211	Current Periodontal Therapies	2
DH A212	Techniques III for Dental Hygienists	3
DH A214	Pathology of Oral Tissues	2
DH A292A	Clinical Seminar II	1
DH A295A	Clinical Practicum II	5
DH A310	Oral Pain Control	3

Spring Semester - 2nd year (10 credits):

DH A224	Principles of Dental Health	3
DH A292B	Clinical Seminar III	1
DH A295B	Clinical Practicum III	6

2. A total of 73 credits is required for the degree.

FACULTY

Ellen Kazor, Professor, AFEDK@uaa.alaska.edu

Susan Luethge, Associate Professor, AFSEL@uaa.alaska.edu

FIRE SERVICE ADMINISTRATION

<http://alliedhealth.uaa.alaska.edu/fsa-emt>

Allied Health Sciences Building (AHS), Room 155, (907) 786-6928

The Fire Service Administration program provides entry-level knowledge and skills for students desiring careers in fire protection. The program enhances the ability of current fire department employees.

The Associate of Applied Science degree focuses on structural fire control. Students usually complete either two or three courses in Fire Service Administration each semester. Course rotation is dependent on sufficient enrollment. Generally, three years or six semesters are needed to complete the requirements and the electives. The degree cannot be completed in two years. The AAS degree is available at the Anchorage and Matanuska-Susitna College campuses.

A baccalaureate degree in Fire Service Administration is available through the Western Oregon State College Open Learning Fire Service Program. This is a 186 quarter-hour program. Up to 72 semester credits (108 quarter-hours) including all FSA courses taken at UAA can transfer into this program. The remaining 78 quarter-hours, including the professional upper-division core curriculum courses, can be completed through Western's open learning program via correspondence courses.

Information may be obtained through the UAA Fire Service Program by calling the department.

ASSOCIATE OF APPLIED SCIENCE, FIRE SERVICE 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.

MAJOR REQUIREMENTS

1. Complete the following required courses (21 credits):

FSA A101	Introduction to Fire Science	3
FSA A105	Fundamentals of Fire Prevention	3
FSA A107	Fire Tactics and Strategy	3
FSA A111	Fire Company Organization and Management	3
FSA A117	Rescue Practices	3
FSA A202	Fire Hydraulics	3
FSA A204	Hazardous Materials I	3

2. Complete 9 credits from the following courses or other FSA courses as approved by program coordinator: 9

EMT A130	Emergency Medical Technician I (6)	
FSA A115	Fire Apparatus and Equipment (3)	
FSA A121	Introduction to Fire Chemistry (3)	
FSA A123	Fire Investigation I (3)	
FSA A151	Wildland Fire Control I (3)	
FSA A206	Building Construction for Fire Protection (3)	
FSA A210	Hazardous Materials II (3)	
FSA A212	Related Codes and Ordinances (3)	
FSA A214	Fire Protection Equipment and Systems (3)	
FSA A217	Advanced Rescue Practices (3)	

3. Complete an additional 15 credits of electives. 15
4. A total of 60 credits is required for the degree.

FACULTY

Tom Wells, Coordinator

INDUSTRIAL PROCESS INSTRUMENTATION

34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

Note: The Industrial Process Instrumentation program is offered only at Kenai Peninsula College (KPC).

Industrial Process Instrumentation is a specialized technical degree. Strong math and science skills are emphasized. Students must work closely with advisors to complete this program in two years. A fifth semester of course work may be necessary.

Students are prepared for employment as instrument technicians. Instrument technicians are responsible for the repair, maintenance, adjustment, and calibration of automatic controls used in refineries, chemical plants, pipelines, production facilities, and other industries where automatic control is used.

ASSOCIATE OF APPLIED SCIENCE, INDUSTRIAL PROCESS INSTRUMENTATION

ADMISSION REQUIREMENTS

1. Placement at the MATH A100 entry-level or above.
2. Placement for reading at the ENGL A107 level or above.
3. Students placing below these math and reading levels on an approved placement test must see a faculty advisor in the Industrial Process Instrumentation program prior to registering for instrumentation courses.

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.

COMMUNICATION AND GENERAL REQUIREMENTS

1. Communication Requirements

ENGL A111	Methods of Written Communication	3
ENGL A212	Technical Writing	3
COMM A111	Fundamentals of Oral Communication	3
2. General Requirements

MATH A105	Intermediate Algebra	3
PHYS A115	Physical Science I for Technicians (4)	8
	and	
PHYS A116	Physical Science II for Technicians (4)	
	or	
PHYS A123/L	Basic Physics I (4)	
	and	
CHEM A105/L	General Chemistry I (4)	

MAJOR REQUIREMENTS

1. Complete the following required courses (48 credits):

ET A101	Basic Electronics: DC Physics (4)	4
	or	
ET A151	Basic Electricity (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
ET A245	Basic Electronics	4
ET A246	Electronic Industrial Instrumentation	3
PETR A106	Petroleum Science II	3
PETR/PRT A140	Industrial Process Instrumentation I	3
PETR/PRT A144	Industrial Process Instrumentation II	3
PETR A155	Blueprint Reading (3)	

- | | | |
|-----------|--|---|
| PETR A230 | Practical Distillation (3) | 3 |
| | or | |
| PETR A231 | Production Plant Operations (3) | |
| PETR A240 | Industrial Process Instrumentation III | 3 |
| PETR A244 | Industrial Process Instrumentation IV | 3 |
| PETR A270 | Industrial Mechanical Equipment | 3 |
2. A total of 68 credits is required for the degree.

LOGISTICS OPERATIONS

University Center (UC), Suite 130, (907) 786-6423

Admission to the AAS degree is currently suspended. Contact the department for further information.

The Logistics Operations 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 operations: information management and customer service, warehousing and inventory control, purchasing and supply management operations, transportation services, transportation rates, tariffs, and carrier liability.

The Logistics Operations AAS degree is designed to prepare graduates for employment in all the operational and technical aspects of global logistics career fields

ASSOCIATE OF APPLIED SCIENCE, LOGISTICS OPERATIONS

ADMISSION REQUIREMENTS

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, "Academic Standards and Regulations."

COURSE REQUIREMENTS

Certain courses require pre-requisites or faculty permission. Contact 786-6423 for further information.

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. COMM A237, CIOS A260A, MATH A107, and SOC A101 are recommended.

MAJOR REQUIREMENTS

1. Complete the following courses (36 credits):

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
CIOS A160	Business English	3
HUMS A155	Human Relations in the Workplace	3
OSH A101	Introduction to Occupational Safety and Health	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 A225 | Transportation Services | 3 |
| LGOP A235 | Rates, Tariffs, and Carrier Liability | 3 |
2. Complete four of the following courses (12-13 credits):
- | | |
|------------|--|
| ACCT A222 | Introduction to Computers and Accounting (3) |
| ENGL A212 | Technical Writing* (3) |
| CIOA A260A | Business Communications (3) |
| OSH A108 | Injury Prevention and Risk Management (4) |
| OSH A250 | Hazardous Material Operation (3) |
| TECH A295 | Technical Internship (1-6) |
| TECH A402 | Operational Safety (3) |
- * ENGL A212 may not be selected if used to meet the Written Communication Skills Requirement.
3. A total of 63-64 credits is required for the degree.

MASSAGE THERAPY

<http://alliedhealth.uaa.alaska.edu/massagetherapy>
3400 Spenard Road, Suite 102, (907) 272-4742

Built on national educational standards and accredited through American Massage Therapy Association (AMTA) Commission on Massage Therapy Accreditation (COMTA), this 675-hour certificate program presents entry-level and advanced skills in the art and science of therapeutic massage. This comprehensive, clinical based program is designed to prepare students to integrate with other health care practitioners and establish independent business in this growing complementary health care profession. Massage therapists are employed by hospitals, chiropractic offices, physical therapy clinics, rehabilitation centers, athletic teams, health clubs, spas, and hotel resorts.

The principles of human anatomy, physiology, pathology, and human movement are presented and built upon throughout the program. Professional standards and ethics, client assessment, practical application techniques, self-care, and business strategies are also integrated. The UAA Massage Therapy Clinic offers the opportunity for students to practice their communication, assessment, and application skills with the guidance of our instructors.

Successful completion of this program qualifies graduates to sit for the National Certification Board for Therapeutic Massage and Bodywork (NCBTMB) exam. Additionally, certification through this program meets Municipality of Anchorage licensure requirements.

Students must begin the program in the Fall semester.

CERTIFICATE, MASSAGE THERAPY

ADMISSION REQUIREMENTS

- Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, "Academic Standards and Regulations."
- Contact the Massage Therapy Program for additional admission requirements.
- Once admitted to the Massage Therapy Program, students are required to provide evidence of current First Aid certification and BLS-C or CPR for Professionals certification. These certifications must remain current throughout the program.

- UAA approved placement test administered by Testing and Assessment Services. Call (907) 786-4500 to make arrangements.

ACADEMIC PROGRESS

- All courses must be completed with a grade of "C" or better.
- Some required courses may have to be repeated if not completed within two years prior to graduation.

MAJOR REQUIREMENTS

- Complete the following required courses:

Fall Semester

MTP A151	Human Health and Disease I	3-4
	or	
BIOL A111	Human Anatomy and Physiology I and	
BIOL A111L	Human Anatomy and Physiology I Lab	
MTP A154	Professional Communication and Documentation for Massage Therapists	2
MTP A156	Standards in Therapeutic Massage	3
MTP A157	Applications in Massage Therapy	4
MTP A158	Swedish Massage Development	2
MTP A167	Introduction to Human Movement	2

Spring Semester

MTP A152	Human Health and Disease II	3-4
	or	
BIOL A112	Human Anatomy and Physiology II and	
BIOL A112L	Human Anatomy and Physiology II Lab	
MTP A254	Structure, Function, and Movement	3
MTP A266	Goal-Oriented Massage	2
MTP A267	Assessment and Applications in Massage	4
MTP A295	Massage Therapy Clinic	2

Summer Semester

MTP A155	Massage Therapy Business Management	2-3
	or	
BA A166	Small Business Management	
MTP A173	Basic Jin Shin Do Acupressure	3

- A total of 35-38 credits is required for the certificate.

MECHANICAL TECHNOLOGY

34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300. www.kpc.alaska.edu

The Mechanical Technology Program is offered only at Kenai Peninsula College.

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.

CERTIFICATE, MECHANICAL TECHNOLOGY

1. Certificate Requirements

MATH A101	Technical Mathematics	3
MECH A101	Introduction to Machine Shop	4
PETR A155	Blueprint Reading	3
PETR A270	Industrial Mechanical Equipment	3
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 A151	Basic Electricity	4
MECH A102	Intermediate Machine Shop	4
MECH A115	Gasoline Engine Rebuilding	3
MECH A201	Advanced Machine Shop	4
WELD A108	Wire Welding	4
WELD A109	TIG Welding	4

3. A total of 31 credits is required for the certificate.

MEDICAL ASSISTING

<http://alliedhealth.uaa.alaska.edu/medicalassisting>
Allied Health Sciences Building (AHS), Room 155, (907) 786-6928

The Medical Assisting program prepares students for employment in physicians' offices or medical clinics. The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), on recommendation of the Committee on Accreditation for Medical Assistant Education. Training includes clinical duties such as assisting with examinations, preparing patients for various procedures, sterilizing instruments, and caring for examining rooms. Instruction is given in administrative responsibilities of medical offices, such as completing health insurance forms, scheduling appointments, handling correspondence, preparing medical and financial records, and other office management tasks.

Other employment opportunities for which the Medical Assisting program provides training include medical transcriptionist, medical receptionist, medical coder, and health insurance clerk. 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. Call the Medical Assisting Office for information.

Medical assisting courses are offered in fall and spring semesters. A 6-week office practice (externship) begins in May. Some courses are offered only once per year. Students who wish to obtain an Associate of Applied Science degree must complete additional courses. Part-time students are welcome.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE OF COMPLETION

A nontranscribed departmental certificate of completion for a one year course of study in medical assisting is available. Obtain brochure from the Medical Assisting Office.

ASSOCIATE OF APPLIED SCIENCE, MEDICAL ASSISTING

ADMISSION REQUIREMENTS

The following prerequisites must be met by all students applying for admission to the Medical Assisting program:

1. High school graduation or equivalent (GED).
2. Keyboarding speed of 45 words per minute. Students who can type but have not reached this speed may enter the program and add a keyboarding course to their schedule.
3. Average or better spelling and English abilities.

4. Good health. A recent physical examination is required before externship.
5. Adult and child/infant CPR certifications are required prior to the start of externship.

Students must complete the following admission procedure:

1. Submit University of Alaska Anchorage application for admission and required transcripts.
2. Schedule English and Math UAA approved placement tests. Call (907) 786-4500 for scheduling information.
3. Submit the Departmental Application to the Medical Assisting department.
4. Call (907) 786-6928 to make an appointment for an interview with Medical Assisting advisor.

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 (50 credits):

ACCT A120	Bookkeeping for Business I	3
BIOL A100	Human Biology	3
CiOS A115	Business Calculators	1
CiOS A130A	Word Processing I: MS Word (1)	1
	or	
CiOS A130B	Word Processing I: WordPerfect (1)	
CiOS A160	Business English	3
CA A102	Nutrition	3
MA A101	Medical Terminology I	3
MA A104	Medical Terminology II	3
MA A120	Medical Office Procedures I	4
MA A125	Medical Office Procedures II	4
MA A140	Medical Transcription I	3
MA A141	Medical Transcription II	3
MA A150	Clinical Procedures I	4
MA A155	Clinical Procedures II	4
MA A295	Medical Office Externship	5
PSY A150	Life Span Development	3

2. Elective 1
3. A total of 60 credits is required for the degree

FACULTY

Pam Ventgen, Term Assistant Professor, AFPKV@uaa.alaska.edu

Robin Wahto, Associate Professor, AFRJW@uaa.alaska.edu

MEDICAL LABORATORY TECHNOLOGY

<http://alliedhealth.uaa.alaska.edu/medlabtech>

Allied Health Sciences Building (AHS), Room 155, (907) 786-6928

The Medical Laboratory Technology (MLT) program prepares students for employment as Medical Laboratory Technicians. Students receive an Associate of Applied Science degree and are eligible to sit for national certification exams offered by the American Society of Clinical Pathologists and the National Certification Association for Medical Laboratory Personnel. 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. NAACLS is recognized by the United States Department of Education and the Council for Higher Education Accreditation.

Graduates are prepared with the technical skills and comprehensive working knowledge to perform all routine laboratory tests which aid in the diagnosis/treatment of disease and to judge and access performance of quality control procedures. Examples of tests performed are microscopic blood cell counts and identification of normal and abnormal cells, testing of blood for transfusions, culture of microorganisms, and tests such as glucose and cholesterol run on automated instrumentation. The MLT Program can be completed in 5 semesters. The final semester is a clinical practicum in an area hospital which emphasizes correlation of practice and theory.

Students may enter the program in the fall or spring semester. Part-time students are also accepted. Non-program students are encouraged to enroll (on space-available basis) in MLT courses if prerequisites are met or previous clinical experience has occurred. Students are accepted on a first-come, first-served basis after completion of file with the MLT program showing proof of admission requirements. Students may receive a conditional acceptance into the MLT program based on the expectation of successful completion of admission requirements.

Additional expenses include lab coat, vaccinations, name tag, student professional organization fee (optional), and graduation pin (optional).

The AAS degree is not contingent upon the students passing any type of external certification or licensure examination.

Students enrolled in the Clinical Practicum must provide their own transportation to the facility. Personal protective equipment is provided by the training facility. Students are financially responsible for any costs incurred due to illness or injury experienced by the student in conjunction with the student labs and practicum. It is strongly recommended that students maintain personal medical insurance. Liability insurance is purchased by the Medical Laboratory Technology Program to cover students during their Clinical Practicum.

The following nontranscripted departmental certificates of completion are available through the Medical Laboratory Technology Department. Contact the department for admissions packet and immunization requirements.

Education Requirements

High school diploma or GED equivalency

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE OF COMPLETION, PHLEBOTOMIST

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 exams in phlebotomy after completion of the nontranscripted certificate program.

Students must complete the following courses:

MEDT A101	Phlebotomy Procedures	3
MEDT A195A	Phlebotomy Practicum	3

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE OF COMPLETION, CLINICAL ASSISTANT

Clinical Assistant

Clinical assistants perform basic laboratory testing in medical laboratories, working under the supervision of a medical technologist, medical laboratory technician or pathologist. A clinical assistant collects and processes blood specimens and performs test procedures in chemistry, hematology, microbiology and urinalysis. Clinical assistants may also perform and record vital signs. A clinical assistant is competent in the following:

- Demonstrating knowledge of infection control and safety practices.
- Using common medical terminology.
- Following standard operating procedures to collect specimens.
- Preparing blood and body fluid specimens for analysis according to standard operating procedures.
- Preparing/reconstituting reagents, standards and controls according to standard operating procedures.
- Performing appropriate tests at the clinical assistant level, according to standard operating procedures.
- Following established quality control protocols
- Communicating (verbally and nonverbally) effectively and appropriately in the workplace.
- Using information systems necessary to accomplish job functions.
- Identifying and report potential pre-analytical errors that may occur during specimen collection, labeling, transporting and processing.

The Clinical Assistant Nontranscripted Departmental Certificate of Completion, is only offered by distance delivery. 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.

Students must complete the following courses:

MEDT A101	Phlebotomy Procedures	3
MEDT A195A	Phlebotomy Practicum	3
MEDT A102	Urinalysis for Clinical Assistants	2
MEDT A103	Hematology for Clinical Assistants	3
MEDT A104	Clinical Chemistry for Clinical Assistants	3
MEDT A105	Microbiology for Clinical Assistants	3
MEDT A195B	Clinical Assistant Practicum	7

ASSOCIATE OF APPLIED SCIENCES, MEDICAL LABORATORY TECHNOLOGY

The mission of the Medical Laboratory Technology program is to graduate competent, ethical professionals with the knowledge and skills necessary for work as entry-level medical laboratory technicians. The registered medical laboratory technician (also known as a clinical laboratory technician) is an allied health professional who is qualified by academic and practical training to provide service in clinical laboratory science. The ability to relate to people, a capacity for calm and reasoned judgment, and a demonstration of commitment to the patient are essential qualities for medical laboratory technicians. The medical laboratory technician must demonstrate ethical and moral attitudes and principles, which are essential for gaining and maintaining the trust of professional associates, the support of the community, and the confidence of the patient and family. An attitude of respect for the patient and confidentiality of the patient's record and/or diagnosis must be maintained. A medical laboratory technician is competent in the following:

- Performing analytical tests of body fluids, cells, and other substances.
- Performing preventive and corrective maintenance of equipment and instruments.
- Confirming abnormal results, performing and verifying quality control procedures.
- Exercising principles of safety.
- Demonstrating professional conduct and interpersonal skills with patients, laboratory personnel, other health care professionals, and the public.
- Establishing and maintaining continuing education as a function of growth and maintenance of professional competency.

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. Students are eligible to sit for national certification exams in medical laboratory technician/clinical laboratory technician after completing the program.

ADMISSION REQUIREMENTS

Students must complete the following admission requirements:

1. Submit an admission application to the MLT program.
2. Graduate from high school or equivalent (GED).
3. Earn a grade of "C" or better in CHEM A103/L, CHEM 104, BIOL A111, BIOL A112 and MEDT A132. (Six credits from BIOL or CHEM may be applied to the general requirements of the AAS degree).
4. Personal interview with MLT advisor.
5. Prior to enrollment in MEDT A132, students must provide documentation of the following:
 - a. Immunity to rubella and rubeola confirmed by titer.
 - b. Immunity to Hepatitis A and Hepatitis B. Students must have started the immunization series prior to enrolling in MEDT A132.
 - c. Immunity to chicken pox documented by history, titer or current immunization.
 - d. Diphtheria/tetanus vaccination within the past ten years.
 - e. Freedom from active tuberculosis, documented annually by negative PPD skin test or by health exam by a nurse practitioner, physician or physician's assistant.

6. Prior to enrolling in MEDT A295, students must demonstrate computer competency using one of the following methods:
 - a. A 3-credit or equivalent course in introduction to data processing or microcomputers.
 - b. Work related experience in computer competency approved by the Medical Laboratory Technology faculty.
 - c. Self initiated computer competency as approved by the Medical Laboratory Technology faculty.

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 (58 credits):

BIOL A111	Human Anatomy and Physiology I	4
BIOL A112	Human Anatomy and Physiology II	4
CHEM A103	Survey of Chemistry	3
CHEM A103L	Survey of Chemistry Laboratory	1
CHEM A104	Introduction to Organic and Biochemistry	3
MEDT A132	Introduction to Laboratory Medicine	3
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	Capstone Seminar	1
MEDT A295	Clinical Practicum	12

Note: MEDT transfer courses must be approved by MEDT faculty.

2. A total of 67 credits is required for the degree.

BACHELOR OF SCIENCE, MEDICAL TECHNOLOGY

The mission of the Medical Technology program is to graduate competent, ethical professionals with the knowledge and the skills necessary for work as entry level medical technologists. The registered medical technologist (also known as a clinical laboratory scientist) is an allied health professional who is qualified by academic and practical training to provide service in clinical laboratory science. The ability to relate to people, a capacity for calm and reasoned judgment, and a demonstration of commitment to the patient are essential qualities for a medical technologist. The medical technologist must demonstrate ethical and moral attitudes and principles, which are essential for gaining and maintaining the trust of professional associates, the support of the community, and the confidence of the patient and family. An attitude of respect for the patient and confidentiality of the patient's record and or diagnosis must be maintained. A medical technologist is competent in the following:

- Developing and establishing procedures for collecting, processing, and analyzing biological specimens and other substances.
- Performing analytical tests of body fluids, cells, and other substances.
- Integrating and relating data generated by various clinical laboratory departments while making decisions regarding possible discrepancies.
- Confirming abnormal results, performing and verifying quality control procedures, and developing solutions to problems concerning the generation of laboratory data.

- Making decisions concerning the results of quality control and quality assurance measures and instituting proper procedures to maintain accuracy and precision.
- Establishing and performing preventive and corrective maintenance of equipment and instruments, as well as identifying appropriate sources for repairs.
- Developing, evaluating and selecting new techniques, instruments and methods in terms of their usefulness and practicality within the context of a given laboratory's personnel, equipment and budgetary resources.
- Demonstrating professional conduct and interpersonal skills with patients, laboratory personnel, other health care professionals, and the public.
- Establishing and maintaining continuing education as a function of growth and maintenance of professional competency.
- Providing leadership in educating other health personnel and the community.
- Exercising principles of management, safety and supervision.
- Applying principles of educational methodology and principle of current information systems.

Upon graduation and initial employment, the medical technologist should be able to demonstrate entry level competencies in the above areas of professional practice. Students are eligible to sit for national certification exams in medical technology/clinical laboratory science after completion of the program.

Students enrolled in the Medical Technology Practicum course (MEDT A495) must provide their own transportation to the clinical facility. Personal protective equipment is provided by the training facility. Students are financially responsible for any costs incurred due to illness or injury experienced by the student in conjunction with the student labs and practicum. It is strongly recommended that students maintain personal medical insurance. Liability insurance is purchased by the Medical Laboratory Technology Program to cover students during their Medical Technology Practicum. The BS degree is not contingent upon the students passing any type of external certification or licensure examination.

ADMISSION REQUIREMENTS (PRE-MAJOR)

Admission as a pre-medical technology major does not guarantee full-major admission to the Medical Technology program. There are a limited number of seats available in each medical laboratory technology course (MEDT). The process for advancement to the medical technology major is:

1. Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, "Academic Standards and Regulations."
2. Meet with the Medical Technology Program advisor regarding application, program admissions, and development of a program of study.
3. Submit a departmental application for admissions to the Medical Laboratory Technology Department.

ADMISSION REQUIREMENTS (FULL-MAJOR)

1. Completion of specified prerequisite courses with a grade of C or higher or P (23 credits):

BIOL A111 and A112	8
CHEM A103 and A104 or	8
CHEM A105, and CHEM A106 and CHEM A321	12
MATH 107	4
MEDT A132	3

2. Prior to enrollment in MEDT A132, students must provide documentation of the following:
 - a. Immunity to rubella and rubeola confirmed by titer.
 - b. Immunity to Hepatitis A and Hepatitis B. Students must have started the immunization series prior to enrolling in MEDT A132.
 - c. Immunity to chicken pox documented by history, titer or current immunization.
 - d. Diphtheria/tetanus vaccination within the past ten years.
 - e. Freedom from active tuberculosis, documented annually by negative PPD skin test or by health exam by a nurse practitioner, physician or physician's assistant.
3. This degree requires computer competency, which may be demonstrated in one of the following ways:
 - a. A three credit or equivalent course using one or more of the following applications: word processing, spreadsheets, databases, and communications or an introductory course in data processing or microcomputers.
 - b. Work-related experiences verifying computer competency as approved by faculty or advisor.
 - c. Demonstrated computer competency as approved by faculty or advisor.
4. Submit a Change of Major Form from pre-major admission status to full-major status.

ACADEMIC PROGRESS

In order to progress within the Bachelor of Science Medical Technology program, students must earn a C or higher or P in all medical technology courses required for the degree. Students who are unable to earn an acceptable grade during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space available basis.

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. In the Medical Technology program, some required prerequisite courses fulfill general education requirements.

C. MAJOR REQUIREMENTS

1. Complete all 42 credits of support courses for the Medical Technology major with a C or higher or P. With the exception of MEDT A132, courses marked with an asterisk (*) must be completed prior to enrollment in MEDT courses.

AS A252	Elementary Statistics	3
	or	
AS A307	Probability and Statistics (3)	
*BIOL A111	Human Anatomy and Physiology I	4
*BIOL A112	Human Anatomy and Physiology II	4
*CHEM A103/L	Survey of Chemistry (4)	
	and	
*CHEM A104/L	Introduction to Organic Chemistry and Biochemistry (4)	
	and	
CHEM Elective (4)		
	or	
*CHEM A105/L	General Chemistry I (4)	
	and	
*CHEM A106/L	General Chemistry II (4)	

	and	
*CHEM A321	Organic Chemistry I (4)	
CIS A305	Managerial Presentations	3
ENGL A111	Methods of Written Communication	3
ENGL A212	Technical Writing	3
ENGL A312	Advanced Technical Writing	3
*MATH A107	College Algebra	4
PHIL A302	Biomedical Ethics	3
2.	Complete the following major courses (67 credits) with a satisfactory grade (C or higher or P):	
MEDT A132	Introduction to Laboratory Medicine	3
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 A301	Clinical Molecular Biology	4
MEDT A302	Clinical Laboratory Education and Management	4
MEDT A303	Advanced Clinical Microbiology	4
MEDT A492	Undergraduate Seminar	1
MEDT A495	Medical Technology Practicum (12)	24

NOTE: A minimum of 16 semester credits of chemistry, including at least one semester of organic or biochemistry, is required by agencies administering the national certification exams. The six credits from MEDT A202 Clinical Chemistry are counted towards the 16 semester credits. Students should meet with their advisor to determine if additional chemistry courses are recommended for their field of interest in medical technology.

- A total of 127 credits is required for the degree, of which 42 credits must be upper-division.

FACULTY

Heidi Mannion, Assistant Professor, AFHAM@uaa.alaska.edu

OCCUPATIONAL SAFETY AND HEALTH

<http://osh.uaa.alaska.edu>

University Center (UC), Suite 130, (907) 786-6423

The Occupational Safety and Health program prepares students for employment as a safety professional in a variety of industries. Some of these industries include: construction, petroleum, mining and tourism. The safety profession is a growing field with a wide range of opportunities for employment. This program provides a thorough background in Occupational Safety and Health preparing graduates for entry-level positions in many of the industries in Alaska.

The Occupational Safety and Health program is a 61 credit Associate of Applied Science degree. Students experience a wide variety of course work in the safety field including hazardous materials training, ergonomics, industrial hygiene, injury prevention, epidemiology, OSHA standards, and safety program development.

ASSOCIATE OF APPLIED SCIENCE, OCCUPATIONAL SAFETY AND HEALTH

ADMISSION REQUIREMENTS

- Contact the Occupational Safety and Health department at (907) 786-6423 for an appointment with a faculty advisor.
- Request an admission and advising packet.
- Demonstrate computer competency evidence by any of the following:
 - A 3 credit or equivalent course using one or more of the following applications: Word processing, spreadsheets, databases, or an introductory course in data processing or microcomputers.
 - Work-related experience verifying computer competency as approved by the faculty advisor.
 - Self-initiated computer competency as approved by the faculty advisor.

GENERAL UNIVERSITY REQUIREMENTS

- Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
- Complete the Associate of Applied Science General Degree Requirements (15 credits) located at the beginning of this chapter. Some of the major requirements also will fulfill associate of applied science degree general requirements.

MAJOR REQUIREMENTS

- Complete the following required courses (55 credits):

BIOL A100	Human Biology	3
CHEM A103	Survey of Chemistry	3
CHEM A103L	Survey of Chemistry Laboratory	1
ENGL A212	Technical Writing	3
MATH A105	Intermediate Algebra	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	2
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 A495*	Technical Internship	3
VE A301	Principles of Technology	3

* An advisor approved elective course may be substituted for TECH A495, Technical Internship.

- A total of 61 credits is required for the degree.

FACULTY

Curt Sather, Professor, AFCEs@uaa.alaska.edu

PARAMEDICAL TECHNOLOGY

Allied Health Sciences Building (AHS), Room 155, (907) 786-6928

Paramedical Technology is currently being offered as a degree-completion program. Please contact the department for specific information.

Paramedics provide prehospital 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, and ability to work confidently under pressure. Students successfully completing the PMED courses meet the U.S. Department of Transportation National Standards for a Mobile Intensive Care Paramedic and are eligible to take the National Registry Examination required for licensure.

Two primary requirements of the program are the clinical rotations and the internship. Clinical rotations provide instruction and supervised practice of emergency medical skills in various units of hospitals within the Anchorage area. The field internship provides experience on an advanced life support mobile intensive care vehicle. Student interns are the third member of the 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 rescue call-volume in a location.

ASSOCIATE OF APPLIED SCIENCE, PARAMEDICAL TECHNOLOGY

ADMISSION REQUIREMENTS

Prospective students must contact the UAA Emergency Services Department for specific admission information. Completion of the UAA admission requirements does not guarantee selection into the Paramedical Technology Program. A limited number of positions is available for each entering class. Information provided here is for general guidance only.

1. High school diploma or GED.
2. Current Alaska EMT I certification.
3. Current Basic Life Support Provider CPR certification.
4. Successful completion of a written examination.
5. Interview with selection committee members of the Paramedical Technology Program.

Note: To meet AAS degree requirements, nontraditional certified experience credit may be awarded to students with current paramedic licensure after they successfully complete PMED A310. Contact the department for information.

ACADEMIC PROGRESS

Students must earn a grade of "B" or higher in each PMED course.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the associate degree requirements 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. BIOL A111 and BIOL A112 fulfill the six-credit general requirement for the AAS degree.

MAJOR REQUIREMENTS

1. Complete the following required courses (56 credits):

BIOL A111	Human Anatomy and Physiology I	4
BIOL A112	Human Anatomy and Physiology II	4
PMED A101	Paramedicine I	8
PMED A105	Paramedicine II	8
PMED A120	Paramedicine III	9
PMED A195A	Clinical Rotation I	4
PMED A195B	Clinical Rotation II	4
PMED A195C	Clinical Rotation III	3
PMED A295A	Paramedical Internship	12
2. A total of 65 credits is required for the degree.

PETROLEUM TECHNOLOGY

www.kpc.alaska.edu

34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300,

The Petroleum Technology program is offered only through Kenai Peninsula College (KPC).

Kenai Peninsula College offers a one-year certificate program in Petroleum Technology. The certificate provides specific training in petro/chemical plant operations or instrumentation.

CERTIFICATE, PETROLEUM TECHNOLOGY Operations Option

1. Complete the following requirements (30 credits):

ENGL A111	Methods of Written Communication	3
MATH A101	Technical Mathematics	3
PETR A105	Petroleum Science I	3
PETR A106	Petroleum Science II (3)	3
	or	
PETR A155	Blueprint Reading (3)	
PETR A120	Surface Oil Field Equipment I	3
PETR/PRT A140	Industrial Process Instrumentation I	3
PETR/PRT A144	Industrial Process Instrumentation II	3
PETR A230	Practical Distillation	3
PETR A231	Production Plant Operations	3
PETR A270	Industrial Mechanical Equipment	3

2. A total of 30 credits is required for the certificate.

Instrumentation Option

1. Complete the following requirements (32 credits):

ENGL A111	Methods of Written Communication	3
ET A151	Basic Electricity	4
ET A245	Basic Electronics	4
ET A246	Electronic Industrial Instrumentation (3)	3
	or	
PETR A244	Industrial Process Instrumentation IV (3)	
MATH A101	Technical Mathematics	3
PETR/PRT A140	Industrial Process Instrumentation I	3
PETR/PRT A144	Industrial Process Instrumentation II	3
PETR A155	Blueprint Reading	3
PETR A230	Practical Distillation	3
PETR A240	Industrial Process Instrumentation III	3
2. A total of 32 credits is required for the certificate.

PHARMACY TECHNOLOGY

<http://alliedhealth.uaa.alaska.edu/pharmacytechnology>
Allied Health Science Building (AHS), Room 158, (907) 786-4614

Admission to the Certificate program is currently suspended. Contact the department for further information.

Pharmacy Technology is designed to prepare students to assist the pharmacist in duties that a technician can legally perform and to function within the boundaries set by the pharmacist and the employer. The certificate in Pharmacy Technology includes preparation for the Pharmacy Technician Certification Board examination and enhances further study in pharmacy disciplines.

Pharmacy Technicians maintain patient records; fill prescriptions; maintain inventories; set up, package, and label medication doses; and prepare solutions and IV additives. Pharmacy Technicians also perform clerical duties, including insurance reimbursement forms and third-party payers. Graduates may be employed in hospitals, nursing homes, private and chain drug stores, research laboratories, wholesale drug companies, and pharmaceutical manufacturing facilities.

Occupational opportunities for Pharmacy Technicians are excellent. Pharmacy Technicians work under the immediate supervision of pharmacists. Qualified pharmacy technicians are in high demand nationwide and the *Occupational Outlook Handbook* predicts a steady growth in this allied health field.

CERTIFICATE, PHARMACY TECHNOLOGY

APPLICATION PROCEDURE

1. Submit Pharmacy Technology departmental application.
2. Apply to UAA declaring Pharmacy Technology as your major.
3. Schedule UAA approved placement test with Testing and Assessment Services at (907) 786-4500.
4. Interview and orientation with the Program Chair (907) 786-4614.
5. Prior to enrolling in PHAR A195, students must have:
 - a. Current immunizations as required by the department.*
 - b. Current BLS-P or CPR for Professionals certification and First Aid.*
 - c. Current Alaska Pharmacy Technician license.

*Certifications and licensure must remain current throughout the practicum courses. Contact the Pharmacy Technology department for specifics regarding these requirements.

ACADEMIC PROGRESS

Students must complete each required Pharmacy Technology course with a grade of "C" or higher in order to receive a Certificate of Completion. Students who are unable to earn a "C" or higher in a pharmacy technology course may, in an attempt to earn a satisfactory grade enroll in a course for one additional time on a space available basis.

ADMISSION REQUIREMENTS

1. Complete application procedure listed above.
2. Placement test.

MAJOR REQUIREMENTS

1. Complete the following courses (38 credits)

PHAR A101	Introduction to Pharmacy	3
PHAR A102	Pharmacy Terminology	3
PHAR A103	Pharmacy Law & Ethics	3

PHAR A104	Survey of Pharmacotherapeutics I	3
PHAR A105	Pharmacology for Technicians I	3
PHAR A106	Professionalism in Pharmacy	2
PHAR A107	Pharmacy Dosing Formulae & Concentrations	3
PHAR A111	Techniques of Pharmacy Practice	3
PHAR A112	Information Technology for Pharmacy Technicians	2
PHAR A114	Survey of Pharmacotherapeutics II	3
PHAR A115	Pharmacology for Technicians II	3
PHAR A195	Pharmacy Practicum	7

2. A total of 38 credits are required for this certificate.

FACULTY

Clifford Frank, Program Director, afchf@uaa.alaska.edu

PHYSICAL EDUCATION & RECREATION

Eugene Short Hall (ESH), Room 125, (907) 786-4083

The Division of 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 non-transcribed certifications within in the discipline. In addition, the division offers a variety of courses for students from other fields who wish to learn new physical skills and/or develop personal wellness.

The division offers a Bachelor of Science in Physical Education. The core of the 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.

SPECIAL NOTE REGARDING OUTDOOR/ADVENTURE COURSES:

The Division of Physical Education & Recreation provides outdoor or 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. Many of PER's classes which begin with the "AOEE" prefix 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 an these courses, students should review the following information.

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.

Good Fitness is defined as above average fitness relative to a typical, healthy adult. Courses that require 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.

Excellent Fitness is defined as possessing health of outstanding quality or being in remarkably good physical condition. Excellent fitness is required for expedition courses.

VENUE AND TERRAIN DIFFICULTY: Students will hike and travel in a variety of environments in AOEE courses. The following breakdown provides an overview of terrain difficulty.

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.

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 crossings up to knee deep.

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 screen; wet, snowy or icy slopes; and thigh to waist deep river crossings. Specialized gear may be required for travel.

Extremely difficult terrain 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.

ACKNOWLEDGEMENT OF RISK, RELEASE OF LIABILITY AND MEDICAL

QUESTIONNAIRE FORM: During the first class session, students will receive information about the course outings. A verbal description will provide additional information about the inherent risks associated with specific areas and activities. Students will be asked to complete acknowledgement of risk forms, sign release of liability statements and provide personal medical information and emergency contact names and numbers.

STUDENT HEALTH INSURANCE: Students enrolling in AOEE activity courses are provided with basic health insurance coverage during field sessions only. This policy is intended to supplement personal policies and does not include the cost of emergency evacuation.

MINORS: Sixteen- and seventeen-year-old students must receive coordinator approval before they are allowed to enroll in AOEE courses. Students under sixteen years of age cannot enroll in AOEE courses.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE, COACHING LEADERSHIP

The Coaching Leadership certificate, offered by the UAA Physical Education and Recreation Program, provides students the opportunity to acquire the knowledge and skills necessary to secure a position as a youth or interscholastic coach. The nontranscripted Coaching Leadership departmental certificate of completion was developed to support national requirements and significant trends in coaches' education.

The comprehensive program provides a solid foundation of coaching applications and principles, sports first aid, citizenship and sport, drugs in sport, and techniques necessary to coach a specific team and individual sport. All classes combine current sport education, research, and training techniques with practical, hands-on coaching experience. This program follows the guidelines established by the partnership between the National Federation of State High School Associations (NFHS) and the American Sport Education Program (ASEP). Materials used in this program have been endorsed by the National Federation Interscholastic Coaches Education Program (NFICEP). Students who successfully complete this program will receive additional nationally recognized certifications from NFICEP. There is no formal application required to enter this program.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:

PE A160	Introduction to Coaching	2
PE A161	Sport First Aid	1
PE A260	Citizenship and Ethics in Sports	1
PE A261	Drugs and Sport	1
2. Complete one of the following courses:

PE A263	Coaching Basketball (2)	2
PE A264	Coaching Soccer (2)	
PE A265	Coaching Volleyball (2)	
PE A266	Coaching Hockey (2)	
PE A267	Coaching Football (2)	
PE A268	Coaching Baseball/Softball (2)	
PE A269	Coaching Track and Field/Running (2)	
PE A270	Coaching Skiing (2)	
PE A271	Coaching Swimming and Diving (2)	
PE A272	Coaching Gymnastics (2)	
PE A273	Coaching Wrestling (2)	
PE A274	Coaching Figure Skating (2)	

3. Pass NFICEP exams and achieve a grade of "B" or better in each required course.
4. Possess current CPR certification.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE, FITNESS LEADERSHIP

The Fitness Leadership Nontranscripted Certificate is currently under revision. Please contact the department for further information.

The Fitness Leadership nontranscripted 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 aerobics 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: Aerobics Fitness Instructor, 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 certificate of the Physical Education and Recreation program is designed to provide quality education and training to individuals interested in working in the fitness industry. Of these ten credits, six 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.

There is no formal application required to enter this program.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:

PE A140	Introduction to Fitness Leadership	3
PE A240	Issues in Fitness Leadership	3
2. Complete the required courses within one of the following three emphasis areas:

Aerobics Fitness Instructor

PE A141	Techniques in Fitness Instruction I	2
PE A241	Techniques in Fitness Instruction II	2

Personal Trainer

PE A142	Techniques in Personal Training I	2
PE A242	Techniques in Personal Training II	2

Aqua Fitness Instructor

PE A141	Techniques in Fitness Instruction I	2
PE A243	Techniques in Aqua Fitness Instruction	2
3. Possess current CPR and Standard First Aid certifications for professionals.
4. A grade of "B" or better in each required course with an overall GPA of 3.0 or better for all courses required for the Fitness Leadership Nontranscripted Departmental Certificate of Completion.

BACHELOR OF SCIENCE, PHYSICAL EDUCATION

ADMISSION REQUIREMENTS

1. Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.
2. Meet with a Physical Education & Recreation advisor regarding application, program admission, and development of a program of study.
3. Submit a divisional application for admission to the Division of 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.

ACADEMIC PROGRESS

Maintain a 2.5 GPA or higher for the courses within the emphasis and a B or better in the Internship.

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. REQUIRED SUPPORT COURSES

Complete the following support courses some of which may be used to satisfy the General Education Requirements (17 credits):

BIOL A111	Human Anatomy & Physiology I	4
BIOL A112	Human Anatomy & Physiology II	4
DN A203	Normal Nutrition	3
HS A220	Core Concepts in the Health Sciences	3
PSY A111	General Psychology (3)	3
	OR	
PSY A150	Life Span Development (3)	

D. MAJOR REQUIREMENTS

1. Complete the following core courses (39 credits):

PE A100	Introduction to Health, Physical Education & Recreation	3
PE A281	Leadership for Diverse Populations	2
PE A282	Leadership in Experiential Initiatives and Activities	2
PE A283	Leadership in Aquatic Activities	2
PE A284	Leadership in Fitness Activities	2
PE A286	Leadership in Individual and Dual Activities	2
PE A287	Leadership in Outdoor Recreation Activities	2
PE A288	Leadership in Rhythmic Activities	2
PE A289	Leadership in Team Activities	2
PE A333	Kinesiology and Biomechanics	4
PE A344	Movement Theory and Motor Development	3
PE A366	Cultural and Psychological Aspects of Health and Physical Activity	3
PE A377	Physiology of Exercise	4
PE A433	Standards and Assessment in Health, Physical Education & Recreation	3
PE A444	Administration and Supervision in Health, Physical Education & 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 Ed: Theory & Practice	3
PE A277	Prevention and Care of Activity Related Injuries	3
PE A420	Challenges in Health & Fitness Leadership	1
PE A430	Health Promotion	2
PE A440	Exercise Testing and Prescription	3
PE A450	Cardiac Rehabilitation	3
PE A460	Contemporary Personal Health Issues	3
PE A495	Internship in Health & Fitness Leadership	6
PS A101	Introduction to American Government (3)	3
	OR	
PS A102	Introduction to Political Science (3)	
PS A347	Public Administration	3
	Approved Elective 1	

Adventure Leadership (47 credits):

AOEE A163	Wilderness First Responder	4
AOEE A275	Foundations of Adventure and Experiential Leadership	3
AOEE A325	Natural History Interpretation and Environmental Education	3
AOEE A355	Survival and SAR for Adventure Leaders	3
AOEE A375	Adventure Leadership Theory and Practice	3
AOEE A425	Organizational Safety and Risk Management	3
AOEE A495	Internship in Adventure Leadership	6
ACCT A201	Principles of Financial Accounting	3
BA A151	Introduction to Business	3
BIOL/GEOL A104	Natural History of Alaska	3

Choose 1 of the following: 3

AOEE A153	Four-season Backpacking (3)
AOEE A154	Alaska Winter Survival (3)

Choose 2 of the following: 2

AOEE A131	Flat Water Canoeing (1)
AOEE A132	River Rafting I (1)
AOEE A133	Introduction to Sea Kayaking (1)

Choose 2 of the following: 2

AOEE A116	Rock Climbing I (1)
AOEE A117	Ice Climbing I (1)
AOEE A121	Crevasse Rescue Techniques (1)
AOEE A126	Indoor Sport Climbing I (1)
AOEE A216	Rock Climbing II (1)

Choose 3 of the following: 6

AOEE A435	Challenge Course Adventure Leadership (2)
AOEE A445	Land-based Adventure Leadership (2)
AOEE A455	Water-based Adventure Leadership (2)
AOEE A465	Climbing-based Adventure Leadership (2)

3. A total of 120-124 credits is required for the degree of which 42 credits must be upper division.

RECOMMENDED COURSE SEQUENCE

See a Physical Education & Recreation advisor for information on a recommended course sequence.

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 AOEE A435 or AOEE A445.

- Complete the following core (13 credits):

AOEE A163	Wilderness First Responder	4
AOEE A275	Foundations of Adventure and Experiential Leadership	3
AOEE A354	Survival and SAR for Adventure Leaders	3
AOEE A375	Adventure Leadership Theory and Practice	3
- Choose 1 of the following (3 credits): 3

AOEE A153	Four-season Backpacking (3)
AOEE A154	Alaska Winter Survival (3)
- Choose 2 of the following (2 credits): 2

AOEE A131	Flat Water Canoeing (1)
AOEE A132	River Rafting I (1)
AOEE A133	Introduction to Sea Kayaking (1)
- Choose 2 of the following (2 credits): 2

AOEE A116	Rock Climbing I (1)
AOEE A117	Ice Climbing I (1)
AOEE A121	Crevasse Rescue Techniques (1)
AOEE A126	Indoor Sport Climbing I (1)
AOEE A216	Rock Climbing II (1)
- Choose 1 of the following (2 credits): 2

AOEE A435	Challenge Course Adventure Leadership (2)
AOEE A445	Land-based Adventure Leadership (2)

* Not available to physical education majors with adventure leadership emphasis.

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 PE A346 and PE A347.

Complete the following requirements (20 credits):

DN A203	Normal Nutrition	3
PE A277	Prevention and Care of Activity Related Injuries	3
PE A333	Kinesiology and Biomechanics	4
PE A377	Physiology of Exercise	4
PE A346	Lower Body Injury Assessment Skills	3
PE A347	Upper Body Injury Assessment Skills	3

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 PE A160, PE A161 and sport specific coaching course.

- Complete the following core (20 credits):

PE A160	Introduction to Coaching	2
PE A161	Sports First Aid	1
PE A260	Citizenship Through Sports	1
PE A261	Drugs and Sport	1
PE A277	Prevention and Care of Activity Related Injuries	3
PE A281	Leadership in Activities for Diverse Populations	2
PE A344	Movement Theory and Motor Development	3
PE A366	Cultural and Psychological Aspects of Health & Physical Activity	3
PE A377	Physiology of Exercise	4

2. Choose 1 of the following (2 credits): 2
- | | |
|---------|----------------------------------|
| PE A263 | Coaching Basketball (2) |
| PE A264 | Coaching Soccer (2) |
| PE A265 | Coaching Volleyball (2) |
| PE A266 | Coaching Hockey (2) |
| PE A267 | Coaching Football (2) |
| PE A268 | Coaching Baseball/Softball (2) |
| PE A269 | Coaching Track/Field/Running (2) |
| PE A270 | Coaching Skiing (2) |
| PE A271 | Coaching Swimming/Diving (2) |
| PE A272 | Coaching Gymnastics (2) |
| PE A273 | Coaching Wrestling (2) |
| PE A274 | Coaching Figure Skating (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 (15 credits):
- | | | |
|---------|------------------------------------|---|
| DN A203 | Normal Nutrition | 3 |
| PE A140 | Introduction to Fitness Leadership | 3 |
| PE A240 | Issues in Fitness Leadership | 3 |
| PE A377 | Physiology of Exercise | 4 |
| PE A430 | Health Promotion | 2 |
2. Choose one of the following options (4 credits): 4
- Fitness Instruction Option**
- | | |
|---------|--|
| PE A141 | Techniques in Fitness Instruction I (2) |
| PE A241 | Techniques in Fitness Instruction II (2) |

Personal Training Option

- | | |
|---------|--|
| PE A142 | Techniques in Personal Training I (2) |
| PE A242 | Techniques in Personal Training II (2) |

Aqua Fitness Instruction Option

- | | |
|---------|--|
| PE A141 | Techniques in Fitness Instruction I (2) |
| PE A243 | Techniques in Aqua Fitness Instruction (2) |

Wellness Option

- | | |
|---------|---|
| PE A141 | Techniques in Fitness Instruction I (2) |
| PE A142 | Techniques in Personal Training I (2) |

* Not available to physical education majors with health & fitness leadership emphasis.

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 are required.

1. Complete the following core (15 credits):
- | | | |
|---------|---|---|
| PE A100 | Introduction to Health, Physical Education & Recreation | 3 |
| PE A281 | Leadership in Activities for Diverse Populations | 2 |
| PE A333 | Kinesiology and Biomechanics | 4 |
| PE A344 | Movement Theory and Motor Development | 3 |
| PE A433 | Standards and Assessment in Health, Physical Education & Recreation | 3 |
2. Choose 3 of the following (6 credits): 6
- | | |
|---------|---|
| PE A282 | Leadership in Experiential Initiatives and Activities (2) |
| PE A283 | Leadership in Aquatic Activities (2) |

- | | |
|---------|--|
| PE A284 | Leadership in Fitness Activities (2) |
| PE A286 | Leadership in Individual and Dual Activities (2) |
| PE A287 | Leadership in Outdoor Recreation Activities (2) |
| PE A288 | Leadership in Rhythmic Activities (2) |
| PE A289 | Leadership in Team Activities (2) |

* Not available to physical education majors.

PROCESS TECHNOLOGY

www.kpc.alaska.edu

Kenai Peninsula College (KPC)

34820 College Drive, Soldotna, Alaska 99669, (907) 262-0365

Community and Technical College

University Center (UC)(907) 562-5313

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 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.

The Associate of Applied Science degree in Process Technology is coordinated by Kenai Peninsula College and is delivered collaboratively through UAA and UAF.

ASSOCIATE OF APPLIED SCIENCE, PROCESS TECHNOLOGY

ADMISSION REQUIREMENTS

1. Placement at the MATH A101 entry-level or above, equivalent course, or appropriate ACT/SAT scores.
2. Placement for reading at the PRPE A107 level or above.
3. 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 Requirements for Associate Degrees located at the beginning of this chapter. All courses must be at the 100-level or above.

COMMUNICATION AND GENERAL REQUIREMENTS

1. Oral Communication 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 A 213	Writing in the Social and Natural Sciences (3)
3. Support Courses Math 3-4

MATH A105	Intermediate Algebra
	or
MATH A107	College Algebra

Computer Literacy	0-3
CIS A105 Introduction to Personal Computers and Application Software (3)	
or	
CIS A110 Computer Concepts in Business (3)	
or	
Pass a computer literacy test	
Natural Science	8
PHYS A115 Physical Science I for Technicians and	
PHYS A116 Physical Science II for Technicians	
or	
PHYS A123/L Basic Physics I and	
CHEM A103/L Survey of Chemistry	
or	
PHYS A115 Physical Science I for Technicians and	
CHEM A103/L Survey of Chemistry	
Social Science Elective	3

MAJOR REQUIREMENTS

- Complete the following required courses:

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
- Approved Applied Technology Electives 9

All nine credits must be chosen with advisor approval. For example, they may be chosen from:

Electronics
Industrial Process Instrumentation
Mining Technology
Occupational Safety and Health
Petroleum Technology
Process Technology
Power Generation
Environmental Technology
Technology
Technical Internship

- Total credits required for degree 60-64

FACULTY

Matthew Scully, Assistant Professor, AFMS1@uaa.alaska.edu

RADIOLOGIC TECHNOLOGY

Allied Health Science Building (AHS), (907)786-6940

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.

ASSOCIATE OF APPLIED SCIENCE, RADIOLOGIC TECHNOLOGY

ADMISSIONS REQUIREMENTS

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, "Academic Standards and Regulations."

Students will be admitted to the Radiologic Technology program as a pre-major. Prior to being admitted as a full major the student must complete the following additional admission requirements:

- Submit Medical Imaging Sciences Department, Radiologic Technology application.
- Earn a grade of "C" or better in BIOL A111, BIOL A112, and MA A101.
- Three letters of reference sent to Program Director, Medical Imaging Sciences Department.
- Current First Aid/CPR for Professionals or BLS-C certification.
- Evidence of current immunization to include the following:
 - rubella and rubeola, confirmed by titer;
 - immunity to Hepatitis A and Hepatitis B, confirmed by titer;
 - immunity to chicken pox documented by history, titer, or current immunization;
 - diphtheria/tetanus vaccination within the past ten years (with booster required at the time of expiration);
 - freedom from active tuberculosis, documented annually by negative PPD skin test or by health exam;
 - documentation of HIV testing annually (results not required).
- Upon completion of items 1-5, student should contact the Medical Imaging Sciences Department for a personal interview with program faculty.
- Provide non-FBI criminal background check.

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 (ENGL A212 recommended).

MAJOR REQUIREMENTS

1. Complete the following required courses (6-7 credits):

MATH A105	Intermediate Algebra	
	or	
MATH A107	College Algebra	3-4

Select one of the following: 3
 PSY A111, PSY A150, PSY A153, or SOC A101.
2. Professional course requirements (47 credits):

RADT A111	Introduction to Radiologic Technology and Patient Care	3
RADT A131	Radiographic Procedures I	3
RADT A132	Radiographic Procedures II	3
RADT A133	Radiographic Procedures III	3
RADT A151	Medical Imaging Physics	2
RADT A161	Fundamentals of Medical Imaging I	3
RADT A171	Fundamentals of Medical Imaging II	3
RADT A195A	Radiography Practicum I	2
RADT A195B	Radiography Practicum II	3
RADT A195C	Radiography Practicum III	3
RADT A211	Radiologic Pharmacology and Drug Administration	1
RADT A251	Radiobiology and Protection	2
RADT A272	Quality Control in Medical Imaging	2
RADT A280	Medical Imaging Pathology	3
RADT A282	Current Issues in Radiologic Technology	1
RADT A295A	Radiography Practicum IV	5
RADT A295B	Radiography Practicum V	5
3. A total of 62 credits are required for the degree.

FACULTY

Erica Koch Wight, Term Assistant Professor, afekw@uaa.alaska.edu

REFRIGERATION AND HEATING TECHNOLOGY

Matanuska-Susitna College

P.O. Box 2889, Palmer, Alaska, 99645, (907) 745-9715

The Refrigeration and Heating Technology program is offered only through Matanuska-Susitna College.

Four specialty certificates, one universal certificate, and an Associate of Applied Science degree in Refrigeration and Heating are available. Satisfactory completion of the four specialty certificates will qualify a student for the universal certificate in Refrigeration and Heating Technology. The AAS degree may be earned by obtaining the universal Refrigeration and Heating Technology certificate and successfully completing the standard General Education Requirements for an Associate 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. Students must successfully pass all of the classes listed in the Core Requirements module before attempting any of the specialty certificate courses.

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.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATES OF COMPLETION

Prerequisites

Certain courses require prerequisites or faculty permission. Students seeking an R&H certificate must complete the following core requirements.

Nontranscripted Core Requirements

RH A103	Technical Math for Industrial Trades	3
RH A105	Electrical Circuits for R&H I	3
RH A109	Principles of Thermodynamics	3
RH A209	Codes for HVAC/R	2
RH A211	Customer Relations and Job Etiquette	1

Nontranscripted Certificate, Residential and Light Commercial Heating and Ventilation

1. Complete the Core Requirements
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 are required for the certificate

Nontranscripted Certificate, Commercial HVAC Systems

1. Complete the Core Requirements
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 are required for the certificate

Nontranscripted Certificate, Residential and Light Commercial Air-Conditioning & Refrigeration

1. Complete the Core Requirements
2. Complete the following certificate requirements:

RH A101	Refrigeration & Air Conditioning Fundamentals	4
RH A126	Electrical Circuits for R&H II	3
RH A132	Troubleshooting for HVAC/R Systems	3
3. A total of 22 credits are required for the certificate

IV. Nontranscripted Certificate, Commercial Refrigeration Systems

1. Complete the Core Requirements
2. Complete the following certificate requirements:

RH A122	Refrigeration and Air Conditioning	4
RH A201	Commercial and Ammonia Refrigeration	4
3. A total of 20 credits are required for the certificate

CERTIFICATE, REFRIGERATION AND HEATING TECHNOLOGY

1. Complete the Core Requirements:

RH A103	Technical Math for Industrial Trades	3
RH A105	Electrical Circuits for R&H I	3
RH A109	Principles of Thermodynamics	3
RH A209	Codes for HVAC/R	2
RH A211	Customer Relations and Job Etiquette	1
2. Complete the following requirements:

RH A101	Refrigeration & Air-Conditioning Fundamentals	4
RH A126	Electrical Circuits for R&H II	3
RH A132	Troubleshooting for HVAC/R Systems	3
RH A203	HVAC/R Basic Controls	3
RH A225	Heating Fundamentals and Forced Air Heat	4
RH A228	Advanced Hydronic Heat Systems	4
RH A226	Commercial HVAC/R Systems	4
RH A229	HVAC/R Control Systems	3
RH A232	HVAC/R Sheet Metal	3
RH A122	Refrigeration and Air Conditioning	4
RH A201	Commercial and Ammonia Refrigeration	4
3. A total of 51 credits are required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, REFRIGERATION AND HEATING TECHNOLOGY

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.

ACADEMIC PROGRESS

Earn a cumulative GPA of 2.0 (C) or higher in required R&H courses to receive the AAS.

MAJOR REQUIREMENTS

1. Complete the following required courses:

RH A101	Refrigeration & Air-Conditioning Fundamentals	4
RH A103	Technical Math for Industrial Trades	3
RH A105	Electrical Circuits for R&H I	3
RH A109	Principles of Thermodynamics	3
RH A122	Refrigeration and Air Conditioning	4
RH A126	Electrical Circuits for R&H 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
2. A total of 66 credits are required for the degree.

FACULTY

Jack Cypher, Instructor, PFJLC@matsu.alaska.edu

Dan Mielke, Assistant Professor, PFDMM@matsu.alaska.edu

TECHNOLOGY

The Bachelor of Science degree in Technology offers qualified applicants the opportunity to expand upon their technical education. With proper academic advising, students may complete the requirements for an Associate of Applied Science degree while meeting the requirements for the baccalaureate degree. Depending on the applied science field, the baccalaureate electives, or the need for prerequisite work, the Bachelor of Science degree in Technology may take longer than two years beyond the Associate degree to complete. The Technology degree allows students to choose one of two areas of study. Contact an advisor for additional information. Government agencies, school districts, corporations, and business and industry provide a ready market for graduates of this program.

ASSOCIATE OF APPLIED SCIENCE, TECHNOLOGY

The Associate of Applied Science in Technology program is offered only through Kodiak College. Call (907) 486-1211 for further information.

The Associate of Applied Science in Technology Degree offers a choice of three areas of emphasis:

- Seafood Technology
- Space Maintenance
- Technology Education

This may include electricity, computer technology, refrigeration, welding, operation safety etc.

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 Seafood Processing, Space Launch Complex Operations or one of the core technologies, will be well prepared as they complete the technology program. A comprehensive technology curriculum with a strong applied math and science component is offered to ensure student readiness for rewarding careers. Technical skills will be developed in an assortment of technologies which include refrigeration and air conditioning, manufacturing, welding, auto-CADD, electricity, and instrumentation.

Students successfully completing the AAS degree should expect one of the following outcomes:

1. Qualified to assume one of the technical careers in the seafood processing industry involving quality control, refrigeration, or systems troubleshooting.
2. Demonstrated technical skills to join an aerospace team to complete receiving, staging and other prelaunch operations.
3. Developed technical skills to qualify for one of the special technology careers in computers, manufacturing, and construction.

ADMISSION REQUIREMENTS

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, "Academic Standards and Regulations."

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.

Complete the Associate of Applied Science General Degree Requirements (15 credits) located at the beginning of this chapter. Students are encouraged to meet with their academic advisor to coordinate program completion. ENGL A212 is recommended.

MAJOR REQUIREMENTS

1. Complete the following required courses (38 credits):

General Requirements

MATH A107	College Algebra	4
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Technology Core Requirements

OSH A250	Hazardous Material Operation	3
OSH A101	Introduction to Occupational Safety and Health	3
ET A151	Basic Electricity	4
PETR/PRT A140	Industrial Process Instrumentation I	3
CIS A105	Introduction to Personal Computers and Application Software	3
AET A100	Fundamentals of Drafting	3
WELD A115	Basic Shielded Metal Arc Welding	2
EDD A288	Computer Aided Drafting	4
RH A101	Refrigeration and Air Conditioning Fundamentals	4
TECH A101	Introduction to Technological Principles	3
TECH A203	Introduction to Manufacturing Technologies	2

2. Complete one of the Technology Emphasis areas (12 credits):

Space Maintenance

TECH A210	Introduction to Space Systems Technologies	2
TECH A211	Space Vehicle Boosters, Satellites and Launch Facilities	3
TECH A212	Propulsion Systems	2
TECH A213	Quality Assurance and Launch Facility Management	2
TECH A295	Technical Internship (1-6)	3

Seafood Technology

TECH A262	Seafood Harvesting	3
TECH A263	Seafood Processing	3
TECH A264	Seafood Quality and Safety	3
TECH A295	Technical Internship (1-6)	3

Technology Specialty

Advanced Study in any core area with instructor approval for program course selections. Typical choices may include advanced studies in safety, electricity, drafting and/or fabrication 6-9		
TECH A295	Technical Internship (1-6)	3-6

3. A total of 61 credits is required for the degree.

BACHELOR OF SCIENCE, TECHNOLOGY

<http://bst.uaa.alaska.edu>

University Center (UC), Suite 130, (907) 786-6423

ADMISSION REQUIREMENTS

Complete the Admission to Baccalaureate Programs Requirements in Chapter 7, "Academic Standards and Regulations".

Students must complete an Associate of Applied Science degree from an accredited institution recognized by UAA or have earned equivalent credits in a technical specialty to achieve junior status in the baccalaureate program. Due to professional accreditation standards or the availability of UAA baccalaureate degrees, the following degrees are not accepted toward meeting the above requirement: Associate of Arts, and AAS in Nursing, Medical Laboratory Technology, and Surveying and Mapping/Geomatics.

This degree requires computer competency which may be demonstrated in one of the following ways:

1. A 3 credit or equivalent course using one or more of the following applications: word processing, spreadsheets, databases, and communications, or an introductory course in data processing or microcomputers.
2. Work-related experiences verifying computer competency as approved by the faculty advisor.
3. Demonstrated computer competency as approved by the faculty advisor.

A. GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

B. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for All Baccalaureate Degrees listed at the beginning of this chapter.

C. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

D. MAJOR REQUIREMENTS

1. Students must complete an Associate of Applied Science degree from an accredited institution recognized by UAA or have earned equivalent credits in a technical specialty (45 credit minimum). 45
2. Complete the following BST core requirements (19 credits):

ENGL A312	Advanced Technical Writing	3
MATH A108	Trigonometry	3
MATH A200	Calculus I	4
	Natural Sciences or Quantitative Skills*	9

*Choose 9 credits of Natural Sciences or Quantitative Skills courses (in addition to the 10 credit Natural Sciences and Quantitative Skills General Education Requirements) for which prerequisites have been met and faculty advisor has approved.

3. Complete one of the following BST options:

BUSINESS OPTION

Note: Total credits needed for graduation may increase unless Business Option students take at least 24 credits of upper-division work in the fulfillment of General Education Requirements and Natural Sciences/Quantitative Skills Requirements.

1. Complete the following required courses:

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 BA courses for which prerequisites are met	9
TECH A433	Project Design, Implementation, and Control (3)	6
TECH A443	Total Quality Leadership(3)	
	or	
	Upper-division electives offered by the College of Business and Public Policy and approved by the faculty advisor (6)	
2. A total of 125 credits is required for the Business Option, of which 42 credits must be upper-division.

SCIENCE AND TECHNOLOGY OPTION

Note: Total credits needed for graduation may increase unless Science and Technology Option students take at least 15 credits of upper-division work in the fulfillment of General Education Requirements and Natural Sciences/Quantitative Skills Requirements.

1. Complete the following required courses:

TECH A402	Operational Safety	3
TECH A422	Senior Project	3
TECH A433	Project Design, Implementation and Control	3
TECH A443	Total Quality Leadership	3
VE A301	Principles of Technology	3
2. Complete a minimum of 9 credits from the following with faculty advisor approval: 9

AET A381	Geographic Information Systems: Technology and Applications (4)
ANTH A455	Medical Anthropology (3)
AT A332	Transport Aircraft Systems (3)
AT A362	Aerodynamics and Flight Performance (3)
AT A364	Avionics Systems (3)
AT A420	Air Transportation System (3)
AT A431	Aircraft Accident Investigation (3)
DH A320	Dental Health Services (2)
DH A395	Clinical Practicum IV for Dental Hygienists (1-3)
DH A420	Community Dental Health (3)
DH A495	Alternative Practicum for Dental Hygienists (2)
ET A340	Microcontroller Electronics (4)
ET A350	Federal Licensing Preparation (4)
HS/SOC A370	Medical Sociology (3)
HS A379	Health Data Analysis (4)
HS/NS A433	Health Education: Theory and Practice (3)
TECH A310	NDE for Managers and Technicians (3)
TECH A415	Accident Investigation (4)
TECH A416	Safety Appraisal Methodology (3)
VE/TECH A412	Advanced Technical Experiences (1-9)*
VE/TECH A495	Technical Internship (3)*

*VE/TECH A412 is limited to 6 credits. The maximum number of total credits for VE/TECH A412 and VE/TECH A495 is 9.

3. A total of 122 credits is required for the Science and Technology Option, of which 42 credits must be upper-division

FACULTY

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TELECOMMUNICATIONS, ELECTRONICS AND COMPUTER TECHNOLOGY

<http://et.uaa.alaska.edu>

ayet@uaa.alaska.edu

University Center (UC), Room 130, (907) 786-6423

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 a nontranscripted departmental certificate of completion in CISCO Local Academy networking and two transcripted certificates in the specialized areas of Telecommunications and Electronics Systems (TES), and Computer and Networking Technology (CNT). Both certificates require 3 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 TECT A.A.S. degree. The Anchorage campus offers the full program with the CNT and TES certificates and degree tracks, and the Matanuska-Susitna College offers the CNT certificate and degree track. Students should consult the TECT faculty for assistance with curriculum planning toward certifications such as A+, Net+, CCNA, and other industry-recognized standards.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE OF COMPLETION, CISCO LOCAL ACADEMY NETWORKING

- Complete the following courses:

CNT A170	CISCO Academy Network Fundamentals	3
CNT A261	CISCO Router Fundamentals	3
CNT A270	CISCO Academy LAN Management	3
CNT A271	CISCO Academy WAN Management	3
- A total of 12 credits is required for the nontranscripted departmental certificate of completion.

CERTIFICATE, COMPUTER AND NETWORKING TECHNOLOGY

- Complete the following requirements (33 credits):

CNT A160	PC Operating Systems	3
CNT A161	PC Architecture	1
CNT A162	PC Building, Upgrading, Configuring & Troubleshooting	2
CNT A165	Customer Service Fundamentals	1
CNT A170	CISCO Academy Network Fundamentals	3
CNT A180	PC Interfacing	3
CNT A181	PC Auxiliary Storage	1
CNT A182	PC Peripheral Devices	1
CNT A183	Local Area Networks	2
CNT A184	Introduction to TCP/IP	1

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|----------|---------------------------------------|---|
| CNT A261 | CISCO Router Fundamentals | 3 |
| CNT A262 | Computer Technical Support | 2 |
| CNT A270 | CISCO Academy LAN Management | 3 |
| CNT A271 | CISCO Academy WAN Management | 3 |
| ET A165 | Introduction to Digital Devices | 1 |
| ET A166 | Technical Calculations & Applications | 2 |
| ET A183 | Data Communications | 1 |
- Complete 3 credits from the following courses:

BA A101	Introduction to Management (3)	3
BA A231	Fundamentals of Supervision (3)	
 - Complete 3 credits from the following courses:

PRPE A108	Basic College Writing (3)	3
ENGL A109	Introduction to Writing in Academic Contexts (3)	
ENGL A111	Methods of Written Communication (3)	

 (Note: English A111 is required for the AAS degree)
 - Complete 3 credits from the following courses:

CIS A105	Introduction to Personal Computers and Application Software (3)	3
CIOS A135A	Spreadsheets I: MS Excel (1)	
CIOS A120A	Bookkeeping Software Applications I: QuickBooks (1)	
CIOS A140A	Databases I: MS Access	
CIOS A113	Operating Systems: MS Windows (1)	
CIOS A150A	Presentations I: MS PowerPoint (1)	
CIOS A130A	Word Processing I: MS Word (1)	
CIOS A130B	Word Processing I: WordPerfect (1)	
CIOS A146	Internet Concepts and Applications I (1)	
CNT A101	Microsoft Office 2000 Fundamentals (2)	
CNT A190	Selected Topics in MOUS Certifications (1)	
 - Complete 3 credits from the following courses:

CS A100	Introduction to Computers (3)	3
CS A109	Computer Programming (Languages Vary)(3)	
 - A total of 45 credits is required for the certificate.

CERTIFICATE, TELECOMMUNICATIONS AND ELECTRONICS SYSTEMS

- Complete the following requirements (36 credits):

ET A160	D.C. Electrical Systems	3
ET A161	D.C. Lab	1
ET A162	A.C. Electrical Systems	3
ET A163	A.C. Lab	1
ET A165	Introduction to Digital Devices	1
ET A166	Technical Calculations & Applications	2
ET A180	Semiconductor Devices	4
ET A181	Advanced Digital Devices	2
ET A182	Applied ICs	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 Systems Troubleshooting	2
ET A262	Advanced Communications	3
CNT A163	Introduction to Networking	1
CNT A164	Network Cabling	1
CNT A165	Customer Service Fundamentals	1
- Complete 3 credits from the following courses:

PRPE A108	Basic College Writing(3)	3
ENGL A109	Introduction to Writing in Academic Contexts (3)	
ENGL A111	Methods of Written Communication (3)	

 (Note: English A111 is required for the AAS degree)

3. Complete 3 credits from the following: 3

CIS A105	Introduction to Personal Computers and Application Software (3)	
CIOS A135A	Spreadsheets I: MS Excel (1)	
CIOS A120A	Bookkeeping Software Applications I: QuickBooks (1)	
CIOS A140A	Databases I: MS Access	
CIOS A113B	Introduction to Windows (1)	
CIOS A150A	Presentations I: MS PowerPoint (1)	
CIOS A130A	Word Processing I: MS Word (1)	
CIOS A130B	Word Processing I: WordPerfect (1)	
CIOS A146	Internet Concepts and Applications I (1)	
CNT A101	Microsoft Office 2000 Fundamentals (2)	
CNT A190	Selected Topics in MOUS Certifications (1)	
4. A total of 42 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, TELECOMMUNICATIONS, ELECTRONICS AND COMPUTER TECHNOLOGY

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 listed at the beginning of this chapter.
2. Complete the Associate of Applied Science General Degree Requirements (15 credits) listed at the beginning of this chapter.

MAJOR REQUIREMENTS

- A. Complete one of the following tracks:

Computer and Networking Track (50 credits)

1. Complete the following (38 credits):

CNT A160	PC Operating Systems	3
CNT A161	PC Architecture	1
CNT A162	PC Building, Upgrading, Configuring & Troubleshooting	2
CNT A165	Customer Service Fundamentals	1
CNT A170	CISCO Academy Network Fundamentals	3
CNT A180	PC Interfacing	3
CNT A181	PC Auxiliary Storage	1
CNT A182	PC Peripheral Devices	1
CNT A183	Local Area Networks	2
CNT A184	Introduction to TCP/IP	1
CNT A261	CISCO Router Fundamentals	3
CNT A262	Computer Technical Support	2
CNT A270	CISCO Academy LAN Management	3
CNT A271	CISCO Academy WAN Management	3
CNT A280	Server Operating Systems	3
CNT A281	Certification Preparation	2
ET A165	Introduction to Digital Devices	1
ET A166	Technical Calculations & Applications	2
ET A183	Data Communications	1
2. Complete 3 credits from the following: 3

CNT/ET A276	Independent Project (3)	
CNT/ET A282	Work Study (3)	
3. Complete 3 credits from the following: 3

BA A101	Introduction to Management (3)	
BA A231	Fundamentals of Supervision (3)	
4. Complete 3 credits from the following courses: 3

CIS A105	Introduction to Personal Computers and Application Software(3)	
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| CIOS A135A | Spreadsheets I: MS Excel (1) | |
| CIOS A120A | Bookkeeping Software Applications I: QuickBooks (1) | |
| CIOS A140A | Databases I: MS Access | |
| CIOS A113 | Operating systems: MS Windows (1) | |
| CIOS A150A | Presentations I: MS PowerPoint (1) | |
| CIOS A130A | Word Processing I: MS Word (1) | |
| CIOS A130B | Word Processing I: WordPerfect (1) | |
| CIOS A146 | Internet Concepts and Applications I (1) | |
| CNT A101 | Microsoft Office 2000 Fundamentals (2) | |
| CNT A190 | Selected Topics in MOUS Certifications (1) | |
5. Complete 3 credits from the following courses: 3

CS A100	Introduction to Computers (3)	
CS A109	Computer Programming (Languages Vary) (3)	

Telecommunications and Electronics Systems Track (45 credits)

1. Complete the following requirements (39 credits):

ET A160	D.C. Electrical Systems	3
ET A161	D.C. Lab	1
ET A162	A.C. Electrical Systems	3
ET A163	A.C. Lab	1
ET A165	Introduction to Digital Devices	1
ET A166	Technical Calculations & Applications	2
ET A180	Semiconductor Devices	4
ET A181	Advanced Digital Devices	2
ET A182	Applied ICs	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 Systems Troubleshooting	2
ET A262	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
2. Complete 3 credits from the following: 3

CNT/ET A276	Independent Project (3)	
CNT/ET A282	Work Study (3)	
3. Complete 3 credits from the following: 3

CIS A105	Introduction to Personal Computers and Application Software (3)	
CIOS A135A	Spreadsheets I: MS Excel (1)	
CIOS A120A	Bookkeeping Software Applications I: Quickbooks	
CIOS A140A	Databases I: MS Access	
CIOS A113	Operating Systems: MS Windows (1)	
CIOS A150A	Presentations I: MS PowerPoint (1)	
CIOS A130A	Word Processing I: MS Word (1)	
CIOS A130B	Word Processing I: WordPerfect (1)	
CIOS A146	Internet Concepts and Applications I (1)	
CNT A101	Microsoft Office 2000 Fundamentals (2)	
CNT A190	Selected Topics in MOUS Certifications (1)	

- B. A total of 60 or 65 credits is required for the degree.

FACULTY

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WELDING & NONDESTRUCTIVE TESTING TECHNOLOGY

<http://weldtech.uaa.alaska.edu>

Gordon Hartlieb Hall (GHH), Room 111, (907) 786-6478

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 certificates in either Industrial Welding Technology or Nondestructive Testing Technology. Welding and NDT are combined in the AAS degree. Kenai Peninsula College also offers a 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.

CERTIFICATES

ADMISSION REQUIREMENTS

Satisfy the Admission to Certificate and Associate Degree Programs Requirements in Chapter 7, "Academic Standards and Regulations."

GRADUATION REQUIREMENTS

Complete the General University Requirements for Certificates at the beginning of this chapter. Students must complete certificate course requirements with a minimum cumulative GPA of 2.0. Students must pass three (3) separate all-position welder qualification tests for a certificate in Welding Technology. Students must pass two (2) NDT method qualification tests for a certificate in Nondestructive Testing Technology. Qualification tests are administered near the end of each applicable course.

CERTIFICATE, INDUSTRIAL WELDING TECHNOLOGY

CERTIFICATE REQUIREMENTS

- Complete the following required courses (24 credits):

WELD A112	Shielded Metal Arc Welding (SMAW)	4
WELD A157	Technical Drawings for Welders	3

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| 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 |
- Complete one of the following courses (2 - 4 credits):

WELD A117	Basic Pipefitting (4)	
WELD A118	Welding Fabrication and Manufacturing (4)	
WELD A190	Selected Topics in Welding Technology (2-4)	
TECH A295	Technical Internship (advisor approved) (2-4)	
 - Complete one of the following courses (4 credits):

WELD A114	Welding of High Strength Steels (4)	
WELD A121	Pipe Welding Vertical-Down (SMAW) (4)	
WELD A122	Pipe Welding Vertical-Up (SMAW) (4)	
 - Pass three (3) separate all-position welder qualification tests.
 - A total of 30-32 credits is required for the Certificate in Industrial Welding Technology.

CERTIFICATE, NONDESTRUCTIVE TESTING TECHNOLOGY

CERTIFICATE REQUIREMENTS

- Complete one of the following welding courses (4 credits):

WELD A112	Shielded Metal Arc Welding (SMAW) (4)	
WELD A161	Gas Metal Arc Welding (GMAW) (4)	
WELD A174	Gas Tungsten Arc Welding (GTAW) (4)	
- Complete the following required courses (27 credits):

ENGL A111	Methods of Written Communication	3
MATH A105	Intermediate Algebra	3
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
- Complete one of the following courses (1 - 4 credits):

WELD A290	Selected Topics in Nondestructive Testing (1-4)	
TECH A295	Technical Internship (advisor approved) (1-4)	
- Pass two (2) separate NDT method qualification tests.
- A total of 32 - 35 credits is required for the Certificate in Nondestructive Testing Technology.

CERTIFICATE, WELDING TECHNOLOGY

This certificate is offered only at Kenai Peninsula College.

The one-year certificate in welding technology provides a student with specific training for structural and pipe welding certification. Students gain a well-rounded education in the use of the latest welding technology, blueprint reading, layout, and fabrication. Graduates of this program will be prepared for employment as structural or pipe welders, and will have a solid welding background for many mechanical trades.

Note: Experienced welders have the option of bypassing the first semester courses by completing written and practical examinations on first semester work. This will allow experienced welders to enter the program at an appropriate level.

- Complete the following requirements (24 credits):

MATH A101	Technical Mathematics	3
WELD A102	Gas Welding	2
WELD A103	Arc Welding	4
WELD A104	Arc Welding: Low-Hydrogen Electrodes	4
WELD A105	Pipe Welding	4
WELD A106	Pipe Certification	4
PETR A155	Blueprint Reading	3

2. Complete one of the following (4 credits): 4

WELD A108	Wire Welding (4)	
WELD A109	TIG Welding (4)	
3. All students must pass structural and pipe certification tests before receiving a certificate in Welding Technology.
4. A total of 28 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, WELDING AND NONDESTRUCTIVE TESTING TECHNOLOGY

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):

COMM A111, or A235, or A237, or A241		3
ENGL A111	Methods of Written Communication	3
ENGL A212	Technical Writing	3
MATH A105	Intermediate Algebra	3
One General Requirement		3

Choose Humanities, Math, Natural Science or Social Science.
Any English course used to satisfy the Humanities general requirement must be different from the written communications requirement and have a course number higher than ENGL 111.
(See associate degree course classification list at the beginning of this chapter).

MAJOR REQUIREMENTS

1. Complete the following required courses (43 credits):

WELD A112	Shielded Metal Arc Welding (SMAW)	4
WELD A157	Technical Drawing 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
VE A301	Principles of Technology	3
2. Complete at least one of the following courses:

WELD A117	Basic Pipefitting (4)	
WELD A118	Welding Fabrication and Manufacturing (4)	
WELD A190	Selected Topics in Welding Technology (3)	
WELD A290	Selected Topics in Nondestructive Testing (3)	
TECH A295	Technical Internship (advisor approved) (3)	
3. Pass three (3) separate all-position welder qualification tests.
4. Pass two (2) separate NDT method qualification tests.
5. A total of 61-62 credits is required for the degree.

FACULTY

Robert McCauley, Associate Professor, AFRDM@uaa.alaska.edu
Eli van Ringenstein, Term Instructor, AFEVR@uaa.alaska.edu

SCHOOL OF ENGINEERING

The School of Engineering offers areas of study at the undergraduate level:

- A 4-year program leading to a Bachelor of Science in Civil Engineering;
- A 4-year program leading to a Bachelor of Science in Geomatics
- A 2-year program leading to an Associate of Applied Science in Geomatics;
- The first two years of a program in Electrical Engineering; and
- The first two years of a program in Mechanical Engineering.

CIVIL 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.

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.

CIVIL ENGINEERING

www.engr.uaa.alaska.edu/soe

Engineering Building (ENGR), Room 201, (907) 786-1900

Civil Engineering deals with environmental control; bridges, buildings and harbor facilities; water resource development and waste disposal; dams, water power, irrigation works and drainage; air, water, highway and railway transportation; construction and management; surveying; city management and developmental planning.

Engineering students are introduced to the basic principles of mathematics, chemistry and physics during their first two years of study. The third year of study is largely devoted to courses in the engineering sciences, extensions of the basic sciences forming the foundation for engineering analysis and design. In the senior year, students specialize within their disciplines and draw upon previous learning to focus their studies on creative design and analysis through projects. Throughout the four-year engineering program

students take courses in communication, humanities, social sciences and fine arts to improve skills in written, oral and graphic communications, and to become aware of social responsibilities and roles in modern society. The Civil Engineering program emphasizes northern region design considerations and principles. Thus, graduates from the Civil Engineering program receive 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 the four-year Bachelor of Science Degree in Civil Engineering. The first two years of the program generally apply to most other fields of engineering.

ACCREDITATION

The Bachelor of Science degree program in Civil Engineering at UAA is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

PROGRAM OBJECTIVES AND EXPECTED OUTCOMES

The curriculum of the UAA civil engineering program is designed to produce graduates who:

1. have a basic knowledge of the principles and skills relating to the civil engineering disciplines of transportation, geotechnical, hydraulic, environmental, and structural 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;
2. An ability to apply knowledge in a minimum of four (4) recognized major civil engineering areas;
3. An ability to design and conduct experiments, as well as to analyze and interpret data in more than one of the recognized major civil engineering areas;
4. An ability to design a civil engineering system, component, or process to meet desired needs;
5. An ability to function on multi-disciplinary teams;
6. An ability to identify, formulate, and solve engineering problems;
7. An understanding of professional and ethical responsibility;
8. An ability to communicate effectively;
9. The broad education necessary to understand the impact of engineering solutions in a global and societal context;
10. A recognition of the need for, and an ability to engage in life-long learning;
11. A knowledge of contemporary issues in professional practice; and

12. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

HONORS IN CIVIL ENGINEERING

Undergraduate civil engineering students may be recognized for exceptional performance by earning Departmental Honors in Civil Engineering. The award will be noted on their permanent university transcript. 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 BS degree in Civil Engineering.
4. Gain approval for and complete a design/research project prior to applying for graduation. An oral presentation of the project results to an appropriate audience will be required. The project proposal and final written report must be approved by the student's academic advisor and the chair of civil engineering.
5. Take and pass the Fundamentals of Engineering Exam in the fall semester of the senior year.
6. Document a minimum of 8 weeks work experience in an engineering or engineering related position.

ADMISSION REQUIREMENTS

Admission to the civil engineering program is to one of three levels: Engineering Preparatory, Engineering Fundamentals, or Civil Engineering Professional. Students admitted to any of the three levels are considered to be degree seeking engineering students. Engineering Preparatory and Engineering Fundamentals students are classified within the university system as "pre-majors." Civil Engineering Professional students are classified within the university system as full "majors."

Engineering Preparatory

Applicants for admission who have completed only the Admission to Baccalaureate Programs Requirements in Chapter 7, "Academic Standards and Regulations," are admitted as pre-majors to the civil engineering program at the Engineering Preparatory level.

Engineering Fundamental

Applicants for admission who have completed the following list of high school courses (or their university equivalents) with grades of "C" or better in addition to the Admission to Baccalaureate Programs Requirements in Chapter 7, "Academic Standards and Regulations," will be admitted as pre-majors to the civil engineering program at the Engineering Fundamentals level:

English	3 years
Algebra	2 years
Trigonometry	1/2 year
Physics	1 year
Chemistry	1 year

Civil Engineering Professional

Transfer, change of major, and returning students who are applying for admission to the civil engineering program and have completed all of the Engineering Fundamentals Requirements listed under the

civil engineering Graduation Requirements section with grades of "C" or better will be admitted to the civil engineering program at the Civil Engineering Professional level.

ADVANCEMENT

Engineering Preparatory to Engineering Fundamentals

Engineering Preparatory Students must work with their assigned advisor to develop a course plan to make up the high school course requirements for advancement to the Engineering Fundamentals level. Once the Engineering Preparatory course work outlined in the student's course plan is completed students must meet with their advisor to apply for advancement to Engineering Fundamentals status.

Engineering Fundamentals to Civil Engineering Professional

Engineering Fundamentals students who have completed, or are within a semester of completing, the Engineering Fundamentals requirements must meet with their advisor to apply for advancement to the Civil Engineering Professional status. Applicants who have successfully completed all the Engineering Fundamental requirements will be advanced to the Civil Engineering Professional (full major) status. Applicants who are within nine credits of completing the Engineering Fundamentals requirements will be admitted conditionally to the Civil Engineering Professional (full major) status. Students who fail to meet the conditions for advancement will be removed from the civil engineering program.

All applications for advancement within the civil engineering program must be submitted to the civil engineering department at least thirty days prior to beginning any CE or ES courses listed as a major requirement for the level for which they are applying.

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. All civil engineering students are required to meet with their advisors to be advanced within the program and to apply for graduation. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

ACADEMIC PROGRESS

Any given civil engineering (CE) or engineering science (ES) course may only be taken when all prerequisites for the courses 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 course during his/her 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 civil engineering program.

A student who has a semester GPA in engineering courses below 2.0 will be placed on academic warning by the School of Engineering. A student on academic warning who receives a semester GPA in Engineering courses of at least 2.0, will be removed from academic warning status by the School. Otherwise, he/she will be removed from the civil engineering program and will not be permitted to attend 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 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 Science, Humanities, and Fine Arts GER requirement:

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 six credits are from a sequence of courses at the 100-level. For example, HIST A101 and HIST A102 is considered to be six credit course sequence.
3. Twelve credits are from two course sequences of six credits each at the 100-level.

C. ENGINEERING FUNDAMENTALS REQUIREMENTS

Complete these required courses with a "C" or higher (61 credits)

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
ES A103	Engineering Graphics	3
ES A111	Engineering Science	3
ES A201	Computer Techniques	3
ES A209	Engineering Statics	3
ES A210	Engineering Dynamics	3
ES A302	Engineering Data Analysis	3
GEO A155	Fundamentals of Surveying	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

D. CIVIL ENGINEERING PROFESSIONAL REQUIREMENTS

1. Satisfactorily complete these required courses with a GPA of 2.0. Courses with an asterisk (*) are prerequisite courses and must be completed with a grade of "C" or better. (47 credits):

CE A334*	Properties of Materials	3
CE A344	Water Resources Engineering	3
CE A402	Transportation Engineering	3
CE A422	Foundation Engineering	3
CE A431*	Structural Analysis	4
CE A432	Steel Design	3
CE A433	Reinforced Concrete Design	3
CE A435*	Soil Mechanics	3
CE A438	Design of Engineering Systems	3
CE A441	Sanitary Engineering	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

2. A Natural Science elective (minimum 3 credits) must be taken in addition to the 7 credit Natural Sciences General Education Requirement and may be selected from the following list:

BIOL A115	Fundamentals of Biology I (4)
BIOL A271	Principles of Ecology (4)
CHEM A450	Environmental Chemistry (3)
GEOL A111	Physical Geology (4)
GEOL A115	Environmental Geology (3)
PHYS A303	Modern Physics (3)

Note: GEOL A111 is the recommended course.

3. Six (6) credits of technical elective courses are required and may be chosen from the courses listed below. Other engineering courses at the 400 level or 600 level may be used to meet this requirement upon the prior approval through the academic petition process. Note that CE A603 (Arctic Engineering) is not petitionable as an undergraduate Civil Engineering technical elective. Graduate courses may not be applied to both a baccalaureate and masters degree.

CE A404	Highway Engineering (4)
CE A434	Timber Design (3)
CE A442	Environment System Design (3)
CE A631	Structural Finite Elements (3)
CE A636	Multi-Story Building Structural Design(3)
CE A675	Design of Ports and Harbors (3)
CE A681	Frozen Ground Engineering (3)
CE A684	Arctic Utility Distribution (3)
EQE A601	Aquatic Process Chemistry (3)
EQE A602	Water Quality Management (3)
EQE A605	Chemical and Physical Water and Wastewater Treatment Processes (3)
EQE A606	Biological Treatment Processes (3)
EQE A613	Remediation (3)
ESM A401	Cost Estimating (3)
GEO A456	Geomatics and Civil Design (3)

4. A total of 132 credits is required for the degree, of which 42 credits must be upper-division.
5. All Civil Engineering students are encouraged to take the Fundamentals of Engineering Examination in their senior year as a preliminary step toward professional registration.

FACULTY

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ELECTRICAL ENGINEERING

www.engr.uaa.alaska.edu/soe

Engineering Building (ENGR), Room 201, (907) 786-1900

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 4-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.

ADMISSIONS 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:

English	3 years
Algebra	2 years
Trigonometry	1/2 year
Physics	1 year
Chemistry	1 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 4-year program leading to the degree of Bachelor of Science in Electrical Engineering at UAF, students must complete the following courses (69 credits):

MATH A200	Calculus I	4
MATH A201	Calculus II	4
MATH A202	Calculus III	4
MATH A302	Ordinary Differential Equations	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
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
ENGL A111	Methods of Written Communication	3
ENGL A211	Academic Writing About Literature (3)	3
	or	
ENGL A213	Writing in the Social and Natural Sciences (3)	
COMM A111	Fundamentals of Oral Communication (3)	3
	or	
COMM A235	Small Group Communication (3)	
	or	
COMM A237	Interpersonal Communication (3)	
	or	
COMM A241	Public Speaking (3)	
ES A111	Engineering Science	3
ES A201	Computer Techniques	3
ES A209	Engineering Statics	3
ES A210	Engineering Dynamics	3
EE A102	Introduction to Electrical Engineering	3
EE A203	Fundamentals of Electrical Engineering I	4
EE A204	Fundamentals of Electrical Engineering II	4
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 student and they are encouraged to take the course if their schedules permit.

FACULTY

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GEOMATICS

www.engr.uaa.alaska.edu/soe

Engineering Building (ENGR), Room 201, (907) 786-1900

The Department of Geomatics offers two degrees and a certificate: a 2-year Associate of Applied Science degree in Geomatics; a 4-year Bachelor of Science degree in Geomatics; and a Certificate in Geographic Information Systems (Certificate in GIS). Students seeking the baccalaureate degree may graduate in one of two emphasis areas: Survey Geomatics or Geographic Information Systems (GIS). Students seeking continuing education for technical or professional enhancement or a concentrated area of study in Geographic Information Systems should consider the Certificate in GIS. The Geomatics program is science-based and includes:

- Land surveying using global positioning systems (GPS) and conventional techniques
- Automated mapping
- Computational analysis and adjustment
- Geodesy
- Principles of boundary law
- Geographic Information Systems (GIS)
- Digital photogrammetry
- Remote sensing and image analysis

The wide diversity in the profession creates a similar diversity of employment opportunities. The Certificate in GIS educates students with a broad base of concepts and theory, provides them with hands-on training in real world problems that are relevant to Alaska's environment, and allows them to explore several thematic areas in GIS applications, such as facilities management, transportation, marine environments, and natural resources.

The Associate of Applied Science degree in Geomatics prepares students for technician-level employment as land survey technicians or as automated mapping technicians. Those working as survey technicians frequently work outdoors, travel to various job locations, and enjoy an independent lifestyle. Automated mapping technicians work with the latest cartographic techniques and equipment and easily transfer skills learned in geomatics courses to other disciplines.

The Bachelor of Science degree prepares students for a wide variety of professional-level opportunities. Since Alaska poses unique geomatic challenges, the curriculum emphasizes northern principles and practices, making UAA graduates highly recruited in the Alaska marketplace and eligible for employment worldwide. Students will find employment in private industry, government, and municipal agencies. Geomaticians working at the professional level enjoy responsibility and a choice of indoor and outdoor employment with many opportunities for advancement and diversification.

The new high tech fields open employment in Geographic Information Systems (GIS), photogrammetry, remote sensing, land surveying, automated mapping, land design and planning, survey engineering, and resource management positions. In Alaska, geomaticians work on State and Native land claims, mining claims, fishing leases, petroleum reserves, forest selections, transportation corridors, private developments, government and military projects. In Alaska and elsewhere, geomaticians work in land surveying, land development and design, mapping and tax assessment, the defense industry, environmental engineering assessment and management, public safety and welfare, medicine, transportation, agriculture, business, and natural sciences.

Professional predictors indicate that employment opportunities will be strong for the various geomatics specialties in Alaska and the Pacific Rim well into the 21st century. While enrolled in the program, students are eligible for cooperative employment programs with government agencies and with private industry during the summer and for intern programs during the school year.

The Department of Geomatics accommodates a wide variety of student objectives from entry level to professional preparation and encourages the non-traditional 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 Survey Geomatics or Geographic Information Systems (GIS) should enroll in the Bachelor of Science degree program. For the most effective planning, Bachelor 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 of the Accreditation Board for Engineering and Technology (ASAC/ABET).

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:

Mathematics	Algebra II
	Trigonometry
Science	Physics
English Composition or	Skill level as demonstrated by ACT, SAT approved placement test to qualify for enrollment in ENGL A111

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) 786-1900 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.

- Complete the following required courses (23 credits):

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
- Complete 9 credits from the following elective courses: 9

GIS A333	GIS and the Marine Environment (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 A468	Integration of Geomatic Technologies (3)
GIS A470	GIS for Facility Management and Transportation Systems (3)
GIS A295	Internship in Geographic Information Systems I (3)
	or
GIS A495	Internship in Geographic Information Systems II (3)
GEO A490	Selected Advanced Topics in Geomatics (3)
GIS A490	Selected Advanced Topics in GIS (3)
- A maximum of 3 credits of Internship (GIS A295 or 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.
- 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.

MAJOR REQUIREMENTS

1. Complete 4 credits in physics: 4

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 A210	Computer Techniques	3
MATH A200	Calculus I	4
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 A158	Geomatics Computer Fundamentals	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
GIS A268	Elements of Geographic Information Systems (GIS)	4
3. A total of 61 credits is required for this degree.

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.

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)	
	or	
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)	
AS A307	Probability and Statistics (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 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

 1. Complete the following:

GEO A358	Programming for Digital Cartography	3
GEO A460	Geomatics Design Project	3
 2. Complete 9 credits from the following: 9

GEO A433	Hydrographic Surveying (3)	
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

 1. Complete the following:

GIS A458	Design and Management of Spatial Data	3
GIS A460	GIS Senior Project	3
 2. Complete 9 credits from the following: 9

GIS A333	GIS and the Marine Environment (3)	
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 A468	Integration of Geomatics Technologies (3)	
GIS A470	GIS for Facility Management and Transportation Systems (3)	
GIS A490	Selected Advanced Topics in GIS (1-6)	
 3. A total of 131 credits is required for the degree of which 42 must be upper division.

FACULTY

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MECHANICAL ENGINEERING

www.engr.uaa.alaska.edu/soe

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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 4-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 3rd 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:

English	3 years
Algebra	2 years
Trigonometry	1/2 year
Physics	1 year
Chemistry	1 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 4-year program leading to the degree of Bachelor of Science in Mechanical Engineering at UAF, students must complete the following courses (68 credits):

MATH A200	Calculus I	4
MATH A201	Calculus II	4
MATH A202	Calculus III	4
MATH A302	Ordinary Differential Equations	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
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
ENGL A111	Methods of Written Communication	3
ENGL A211	Academic Writing About Literature (3)	3
	or	
ENGL A213	Writing in the Social and Natural Sciences (3)	
COMM A111	Fundamentals Of Oral Communication (3)	3
	or	
COMM A235	Small Group Communication (3)	
	or	
COMM A237	Interpersonal Communication (3)	
	or	
COMM A241	Public Speaking (3)	
ES A111	Engineering Science	3
ES A 201	Computer Techniques	3
ES A209	Engineering Statics	3
ES A210	Engineering Dynamics	3
ES A331	Mechanics of Materials	4
ES A346	Basic Thermodynamics	3
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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CHAPTER 11

GRADUATE PROGRAMS

Graduate Study Admissions

- Related Master's Degree Policies
- Formal Acceptance to Master's Degree Programs
- Non-Degree-Seeking Students
- Full-Time/Part-Time Status for Master's Degree-Seeking Students
- Catalog Year for Master's Degree Program
- Continuous Registration
- Leave of Absence
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- Probation
- Removal from Master's Degree-Seeking Status
- Academic Appeals
- Reinstatement to Master's Degree-Seeking Status
- Graduate Advisor
- Official Graduate Studies Plan
- Advancement to Candidacy
- University Requirements for Master's Degrees
- Application for Graduation

Interdisciplinary Studies Degree Graduate Certificate Admissions

- Related Graduate Certificate Policies
- Formal Acceptance to Graduate Certificate Programs
- Non-Degree-Seeking Students
- Full-Time/Part-Time Status for Graduate Certificate-Seeking Students
- Catalog Year for Graduate Certificate Program
- Good Standing
- Removal from Graduate Certificate-Seeking Status
- Academic Appeals
- Reinstatement to Graduate Certificate-Seeking Status
- Graduate Certificate Advisor
- Official Graduate Certificate Studies Plan
- Determining Program Requirements
- Advancement to Candidacy
- Graduate Certificate University Requirements
- Application for Graduation

Exchange Programs Master's Programs and Graduate Certificates



GRADUATE PROGRAMS

GRADUATE STUDY

Graduate education is an integral part of the University of Alaska Anchorage (UAA). The university offers master's degrees and graduate certificates. UAA does not confer doctoral degrees at this time; however, several cooperative programs exist with other universities. Some or all course work and research is completed at UAA while the degree is granted by another university.

While at UAA, graduate students develop academically and professionally. Students who have completed UAA graduate programs possess the knowledge and skill necessary to succeed in further 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 comprehensive exams allow students to express the knowledge they have acquired in forms unique to their respective programs.

To ensure the most beneficial educational experience, students' preparation and likelihood of success in their programs are carefully assessed and validated. Entrance requirements provide an opportunity for students to document their credentials and demonstrate readiness for graduate studies. If an entrance exam is required, the nature of that exam is determined by the appropriate discipline. As they progress in their studies, students can expect responsible 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.curric.uaa.alaska.edu/admissions

All students intending to register for one (1) or more courses must apply for admission. Applications for admission are available online via www.curric.uaa.alaska.edu/admissions or from Enrollment Services.

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 their ability to pursue graduate work. In general, applicants must either have a cumulative grade point average of 3.00 (B average on a 4.00 scale) or meet the 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 exams such as the Graduate Record Exam (GRE) or the Miller Analogies Test (MAT). 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 Enrollment Services. 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 Enrollment Services. 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, Enrollment Services 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. No more than nine (9) credits may be completed in the student's graduate program before program admission. See individual program listings for information.

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 degree. A list of evaluation services may be obtained from Enrollment Services. 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 Enrollment Services 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 Enrollment Services 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 Enrollment Services 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 MASTER'S DEGREE POLICIES**TRANSFER CREDITS**

Up to nine semester credits or the equivalent earned at a regionally accredited institution and not previously used to obtain any other degree or certificate 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.

CHANGE OF MAJOR OR EMPHASIS AREA

Students who wish to change majors or emphasis areas within the same degree and school or college may submit a Graduate Change of Major or Emphasis Area form to Enrollment Services. Students will be expected to meet all admission and program requirements of their new major or emphasis area. Students who change major or emphasis areas after being advanced to candidacy must submit a revised official Graduate Studies Plan to Enrollment Services 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 Enrollment Services 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 Enrollment Services.

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 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 Enrollment Services, 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 Enrollment Services of the decision. Enrollment Services 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 nine (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 nine (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 nine (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.

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 (7) 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 fall and spring semester, 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 (1) 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.

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 Enrollment Services through week 12 of the fall or spring semester. 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 course work that meets their graduate program requirements and who is not on probation is considered to be in good standing. For students admitted to candidacy, course work 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 (1) semester (excluding summer), 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 *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 (1) 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 of the appropriate school or college offering the graduate program appoints a Graduate Advisor for each student accepted to a graduate 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 of advancement to candidacy. The committee must consist of at least three UAA faculty, including the chair, who shall normally be a full-time faculty member. One (1) faculty committee member may be from a discipline outside the student's school or college. Additional members who are not UAA faculty, but have the appropriate professional credentials, may be included with the approval of the Dean or designee, the committee chair, and the student. The committee members and chair must agree to serve and must be approved by the Dean or designee. Any changes to the committee structure require the approval of the Dean or designee, and the committee chair.

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 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. Approve the official Graduate Studies Plan and Application for Candidacy at the time of Advancement to Candidacy.
3. Monitor the student's progress and timely completion of all requirements in the official Graduate Studies Plan (see Continuous Registration).
4. Monitor the timely submission of the official Graduate Studies Plan and other documents to Enrollment Services.
5. Review and approve any changes to the official Graduate Studies Plan, directing timely submission of the revised plan to Enrollment Services.
6. Review and approve the thesis, independent scholarship, or research project, including initial proposals, according to procedures established by the individual graduate program.
7. Review, and approve requests for temporary leaves of absence, which, if approved, will result in the student being placed on inactive status.
8. Administer and assess the comprehensive exam, 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 or designee and is filed with Enrollment Services. 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 Enrollment Services through the graduate advisor/committee.

ADVANCEMENT TO CANDIDACY

After demonstrating an ability to succeed in graduate study as defined by the relevant graduate program, the student may apply for advancement to candidacy. Advancement to candidacy status is a prerequisite to graduation and is determined by the Dean or designee. Candidacy is the point in a graduate study program at which the student has demonstrated an ability to master the subject matter and has progressed to the level at which a graduate studies plan can be approved.

To be approved for candidacy a student must:

- Be in good standing as defined in the good standing policy.
- Demonstrate competence in the methods and techniques of the discipline.
- Receive approval of the independent scholarship, thesis or research project proposal from the student's Graduate Studies Committee.
- Satisfy all prerequisites and remove all academic deficiencies.
- Satisfy all terms of a provisional admission.
- Submit an approved, official Graduate Studies Plan.

UNIVERSITY REQUIREMENTS FOR MASTER'S DEGREES

To complete a graduate 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 was accepted. University requirements for all graduate degrees are as follows:

1. The student must complete at least 30 approved semester credits beyond the baccalaureate degree. At least 24 credits in each graduate degree must consist of courses other than thesis, independent scholarship, and/or a research project.
2. Up to nine (9) semester credits not used toward any other degree or certificate may be transferred to UAA from an accredited institution and counted toward a degree. Acceptance of transfer credit toward program requirements is at the discretion of the individual program.
3. 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 or certificate, to be transferred to UAA, as long as at least nine (9) credits applicable to the student's program are earned at UAA after acceptance into the program.
4. A GPA of at least 3.00 (B) must be earned in courses identified in the official Graduate Studies Plan.
5. 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.
6. In 400-level courses, a minimum grade of "B" is required for the course to count toward the program requirements.
7. Courses at the 500-level are for professional development and are not applicable toward any degree.
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 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.
9. Courses taken by correspondence, 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 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.
10. If the requirements for a master's degree as specified in the entry-level catalog are not met within seven (7) 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 degree, including transfer credits, must be earned within the consecutive seven-year period prior to graduation.
12. Students are expected to be continuously registered throughout their graduate program (see Continuous Registration).
13. The student must complete all requirements established by the program and must pass a written or oral comprehensive examination, independent scholarship evaluation, or thesis or project defense.
14. When an oral comprehensive examination, thesis defense, or independent scholarship is required, 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.
15. Thesis format must meet general UAA requirements for format as determined by the UAA Consortium Library.

APPLICATION FOR GRADUATION

Graduate students must submit an Application for Graduation, signed by the academic advisor and accompanied by the required fee, to Enrollment Services. 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.

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). He/she may apply and meet all requirements for graduate admission specifying 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 his/her program credits from one existing graduate degree program. Courses must come from two or more disciplines (i.e., subjects). A minimum of 21 credits must be drawn from existing, approved 600-level courses. No more than nine (9) credits of directed study, independent study, and/or individual research may be included in an Interdisciplinary Studies degree. In addition to the requirements noted 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 Enrollment Services.
2. The student develops a proposed Interdisciplinary 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. All such requirements must be satisfied prior to conferral of the degree.
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 nine (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 invites a faculty member to chair the committee and to serve as their 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).
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 Enrollment Services.
6. Upon receipt of the proposal and all required admission information, Enrollment Services will forward the student's admission packet to the Vice Provost for Research and Graduate Studies for final approval. If the proposal and committee structure are approved by the Vice Provost for Research and Graduate Studies, it will become the student's official Graduate Studies Plan.
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 Enrollment Services of their decision. Enrollment Services sends the official Certificate of Admission directly to the student. Acceptance does not establish candidacy in the program.
8. Once accepted to graduate study, the student will work with their advisor and committee to ensure that satisfactory progress is made toward completing degree requirements. After demonstrating an ability to succeed in graduate study, as defined by the committee and advisor, the student may apply for Advancement to Candidacy status (see Continuous Registration and Advancement to Candidacy).

GRADUATE CERTIFICATE

A graduate-level certificate program is a cohesive 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.curric.uaa.alaska.edu/admissions

All students intending to register for one (1) or more courses must apply for admission. Applications for admission are available online via www.curric.uaa.alaska.edu/admissions or from Enrollment Services.

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 grade point average 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 exams such as the Graduate Record Exam (GRE) or the Miller Analogies Test (MAT). 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 Enrollment Services. 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 Enrollment Services. 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, Enrollment Services 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 degree. A list of evaluation services may be obtained from Enrollment Services. 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 Enrollment Services 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 Enrollment Services 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 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.

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 certificate-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 Enrollment Services 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 GRADUATE CERTIFICATE POLICIES**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 other 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 must formally apply for admission to the new certificate program through Enrollment Services 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 Enrollment Services.

ADDITIONAL GRADUATE CERTIFICATES

Students who have received a graduate certificate or master's degree from a regionally accredited college or university may earn another graduate certificate by completing at least nine (9) resident credits not previously used for any other graduate certificate, baccalaureate or master's degree. The student must meet all the Graduate Certificate University Requirements, School or College Requirements, and Program Requirements; fulfilling all University, College, and Program Requirements may require more than the minimum of nine (9) additional resident credits. If the nine (9) additional resident credits and other requirements have been earned for each additional graduate certificate, two or more graduate certificates may be awarded simultaneously.

FORMAL ACCEPTANCE TO GRADUATE CERTIFICATE PROGRAMS

Once all required admission documents have been received by Enrollment Services, 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 Enrollment Services of the decision. Enrollment Services 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 STUDENT

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 nine (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 nine (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 (7) 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 re-apply 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 Enrollment Services.
6. Review and approve any changes to the official Graduate Certificate Studies Plan, directing timely submission of the revised program plan to Enrollment Services.
7. Review and approve the capstone experience or project according to procedures established by the individual program.
8. Administer and assess a comprehensive exam, 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 Enrollment Services. Students are expected to complete all requirements listed on the official Graduate Certificate Studies Plan, as well as all Graduate Certificate University Requirements. Any revision to the plan will need to be submitted to Enrollment Services 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. The student must complete at least 12 approved semester credits not counted toward the baccalaureate degree.
2. The student must complete all requirements established by the program.
3. A GPA of at least 3.00 (B) must be earned in courses identified on the official Graduate Certificate Studies Plan.
4. 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.
5. In 400-level courses, a minimum grade of "B" is required for the course to count toward the certificate program requirements.
6. Courses at the 500-level are for professional development and are not applicable toward any certificate, even by petition.
7. 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.
8. 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 graduate certificate. Quarter credits will be 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.
9. 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 six (6) credits applicable to the student's certificate program are earned at UAA after acceptance into the program.
10. 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.
11. If the requirements for a graduate certificate as specified in the entry-level catalog are not met within seven (7) 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 graduate certificate, including transfer credits, must be earned within the consecutive seven-year period prior to graduation.

APPLICATION FOR GRADUATION

Graduate certificate students must submit an Application for Graduation, signed by the academic advisor and accompanied by the required fee, to Enrollment Services. Application for Graduation deadlines are March 1 for summer graduation, May 1 for fall graduation, and September 15 for spring. Applications received after the deadline will be processed for the following semester. Students who apply for graduation but do not complete the graduate certificate requirements by the end of the semester must re-apply for graduation. The application fee must be paid with each Application for Graduation.

EXCHANGE PROGRAMS

BIOMEDICAL

(907) 786-4789

The Biomedical Program is affiliated with WWAMI, an educational agreement between the University of Washington School of Medicine (UWSM) and the states of Washington, Wyoming, Alaska, Montana, and Idaho. Through this program, UWSM accepts 10 certified Alaska residents each year into its entering class. Students in the program are enrolled concurrently at UAA and UWSM and receive their entire first year of medical education at UAA. After completion of the first year, the students are headquartered in Seattle for the remaining three years of their medical education. UWSM medical students have the option of receiving third and fourth-year clinical training in family medicine, internal medicine, pediatrics, psychiatry, and obstetrics/gynecology in Alaska. UWSM participates in the American Medical College Application service (AMCAS) and all applicants must take the Medical College Admission Test (MCAT) in order to be considered. Acceptance into the program is offered through the Admissions Committee of UWSM. UAA can provide all of the course work needed to be competitive for acceptance into the WWAMI Program.

COLLEGE OF ARTS AND SCIENCES

ANTHROPOLOGY

<http://anthro.uaa.alaska.edu>

Beatrice McDonald Hall (BMH), Room 214, (907) 786-6840

The MA 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 proseminars, 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 and other practical applications of physical anthropology. The Cultural Resource Management track involves the inventory, assessment, and conservation of archaeological sites and remains as a part of a larger management framework.

MASTER OF ARTS, ANTHROPOLOGY

ADMISSIONS REQUIREMENTS

See Admission Requirements for Master's Degrees at the beginning of this chapter. Deadline for application: March 15 for fall admission.

Students seeking admission into the Anthropology MA degree program must meet the following requirements (1-3) and must submit the following documents (4-8):

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 students have completed a minimum of 18 credits of undergraduate course work in anthropology, with a GPA of 3.0. An undergraduate major in anthropology is preferred.
3. Students must have at least a 2.5 overall undergraduate GPA.
4. Completed UAA graduate application form.
5. Official transcripts of college-level work from each institution attended.
6. Graduate Record Examination results (General Test Scores).
7. Three letters of recommendation from professors or others particularly qualified to attest to the applicant's qualifications for graduate study.
8. A letter of intent, including a brief statement of applicant's research and career goals and reasons for pursuing graduate study in anthropology at UAA.
9. Examples of papers or research proposals indicative of the applicant's potential for graduate study (optional).
10. Applicants may be requested to complete a personal interview.

Acceptance is determined by the Anthropology Graduate Admissions Committee and is based on:

1. Prospective student's overall credentials;

2. 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. Such students are notified of those deficiencies, and required to complete 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 or research assistantships.

Prospective graduate students are strongly advised to contact all potential faculty for research/advisor arrangements at an early stage of their admission process.

ACADEMIC PROGRESS

To maintain continuous progress toward the degree, a student in the MA program is expected to complete each semester a minimum of 9 credits of course work 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. In addition, students must advance to candidacy within 5 years, unless on an approved leave of absence.

CANDIDACY REQUIREMENTS

See the beginning of this chapter for Advancement to Candidacy requirements. A student may apply for advancement to candidacy by fulfilling the following criteria:

1. Submit an Official Graduate Studies Plan, as described in the UAA catalog.
2. Select a Graduate Studies Committee by the end of the first semester of study.
3. Complete at least 24 semester credits of non-thesis course work applicable to the MA program.
4. Take at least one course in statistics and one in computer-based analytical methods (may be taken as an undergraduate). In addition, a student may be required to demonstrate mastery of a foreign language, if deemed necessary by the graduate committee.
5. Pass a written comprehensive examination in anthropology. Normally, this exam is taken before the end of the second year of study, but in any case must be taken by the completion of 36 semester credits. This exam may be taken twice, but failure to pass the exam a second time will result in removal from program.
6. Prepare a thesis prospectus for approval by the graduate 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 and/or independent study may be applied to the degree.
4. Courses outside the field of anthropology may be taken as electives if approved by the student's advisor.
5. Submit a written MA Thesis to the graduate committee, conforming to specifications of the UAA Consortium Library.
6. Pass an oral defense of the thesis, open to the university community.

7. Submit an Application for Graduation.
8. One of the following 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 by advisement	6
	400 or 600 level elective by advisement	9-14
2. A total of 30 credits is 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
2. Complete one of the following tracks:

Applied Cultural Anthropology Track

Complete the following:

- | | | |
|-----------|--|---|
| ANTH A615 | Advanced Applied Anthropology | 3 |
| ANTH A630 | Advanced Research Methods in Cultural Anthropology | 3 |
| ANTH A695 | Anthropology Practicum | 3 |

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 A665 | Analytical Techniques in Biological Anthropology (3) | |
| ANTH A685 | Advanced 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 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 by advisement 6-11
4. A total of 30 credits is required for the degree.

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BIOLOGICAL SCIENCES<http://biology.uaa.alaska.edu>

The WWAMI/Biomedical program may be found at

<http://biomed.uaa.alaska.edu/>

Engineering Building (ENGR), Room 340, (907) 786-4770

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 either under the supervision of UAA faculty or under the supervision of a qualified and approved affiliate advisor from outside the University community.

MASTER OF SCIENCE, BIOLOGICAL SCIENCES**ADMISSION REQUIREMENTS**

See Admission Requirements for Master's Degrees at the beginning of this chapter.

Students seeking admission into the Biological Sciences MS degree program should meet the following requirements (1-2) and must submit the following documents (3-7):

1. Students must have a bachelor's degree in biology, chemistry, or equivalent science, to be determined by the Biological Sciences Graduate Committee (BSGC). 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 have at least a 3.0 GPA, OR at least a 75th percentile in 2 out of the 4 GRE scores (verbal, quantitative, analytical, or subject). Successful applicants ordinarily have no grade lower than a C in undergraduate science courses.
3. Completed UAA graduate application form.
4. Official transcripts of all college-level work.
5. Graduate Record Examination scores (General GRE scores and Biology, Biochemistry or Chemistry Advanced GRE subject scores).
6. Three letters of recommendation.
7. A brief statement of applicant's research and career goals.

Acceptance is determined by the Biological Sciences Graduate Committee (BSGC) and is based on:

1. Prospective student's overall credentials;
2. Availability of appropriate faculty for student research interests.

Prospective graduate students are strongly advised to contact all potential faculty for research/advisor arrangements at an early stage of their admission process. Applicants must have a faculty mentor to be accepted into the program. Faculty research interests are available online: <http://biology.uaa.alaska.edu>.

GRADUATION REQUIREMENTS

See University Requirements for Master's Degrees at the beginning of this chapter.

PROGRAM REQUIREMENTS

- Students working toward an MS degree in Biological Sciences must fulfill the following minimum credit requirements:

600-level	Science Credits	No less than 9
BIOL A692	Graduate Seminar (1)	2
BIOL A698/A699	Research and Thesis (1-6)	No more than 12

A minimum of 30 credits is required, of which at least 21 credits must be at the 600-level. Upper division (400-level) credits may be applied to the degree only with approval of the Graduate Study Committee Chair (Research Advisor).
- MS students awarded a Teaching Assistant (TA) stipend are required to teach two laboratory sections per semester (Fall and Spring) per year of stipend support.
- Each student must select a Graduate Study Committee (GSC) consisting of three UAA faculty, to be chaired by the student's Research Advisor. If the Research Advisor is an Affiliate Faculty member, a permanent faculty Co-Chair must also serve on the student's GSC.
- By the end of the first semester of graduate work, each graduate student must prepare a Graduate Study Plan for approval by the student's GSC. The approved Study Plan and any subsequent approved revisions should be submitted to the chair of the BSGC, a copy filed in the Department Office, and the original sent to Records. During the second semester, a written research plan is to be submitted for approval by the student's GSC. Students are expected to give an oral presentation of their research plan within the second semester of graduate work.
- All graduate students are expected to present an original research seminar to the Biological Sciences faculty and graduate student body after significant thesis work has been accomplished.
- Each student must formally apply for Advancement to Candidacy no later than the third week of the semester in which the student will complete 18 credits of graduate study at UAA. Students may not formally apply if any deficiencies exist as defined by general university requirements and this MS program.
- After the student completes their research, a research thesis must be written by the student and submitted at least two months prior to graduation for review and approval by the GSC. Thesis format shall be determined by the student and advisor.
- Students will be expected to schedule a final Thesis Defense Seminar of their research, which will be followed by a private meeting with their GSC to finalize the defense.

DOCTORAL PROGRAM, BIOLOGICAL SCIENCES

Pursuit of a doctoral degree is possible in selected areas of biological sciences through a cooperative program with the University of Alaska Fairbanks. For more information, please contact the UAA Department of Biological Sciences or the University of Alaska Fairbanks, Office of Graduate Studies.

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CLINICAL PSYCHOLOGY

<http://psych.uaa.alaska.edu>

Social Sciences Building (SSB), Room 214, (907) 786-1711

The MS degree 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 degree is structured to allow students to focus on one of four specialty areas: clinical services, public services, research (doctoral program preparation), and addictive behaviors.

- Research track: training in psychotherapy, research and program evaluation with the goal of leading students toward the pursuit of a doctoral degree in psychology.
- Clinical track: preparation for a master's level career in psychotherapy, appreciation of research and critical evaluation of research conducted by others.
- Public Service track: preparation for a master's level career in community public service provision, appreciation of research and critical evaluation of research conducted by others.
- Addictive Behaviors Track: preparation for a master's level career in psychotherapy with an emphasis on treating addictive behaviors, appreciation of research and critical evaluation of research conducted by others.

All program tracks have three general components. First, a program "core" provides competencies essential to the professional mental health service provider and scientist/practitioner. Second, the basics are extended to different application tracks with an emphasis on supervised practice. Third, the student develops a research competency by completing a thesis.

MASTER OF SCIENCE, CLINICAL PSYCHOLOGY

ADMISSION REQUIREMENTS

1. Deadline: March 1 for fall admission. This is the only admission date each year.
2. Compliance with the University Requirements for Master's Degrees and admission to graduate study as given in the University of Alaska Anchorage catalog is required. A major in psychology is preferred.
3. Undergraduate training in statistics, experimental design, abnormal psychology, and tests and measurements (at UAA specific qualifying courses are PSY A260 or AS A252, PSY A261, PSY A345, and PSY A473, respectively) is necessary. Students may be admitted to the program at UAA without these course experiences. However, undergraduate course work in these areas constitutes departmental requirements for full admission. As such, relevant undergraduate courses must be taken to meet the prerequisite structure of specific graduate course and must be completed prior to starting practicum (PSY A665B).
4. Submission of scores on the Graduate Record Examination (GRE) for both the general aptitude test and the Psychology Subject Test is mandatory. Applications without these scores are generally not considered. Successful applicants typically have GRE general aptitude scores on the quantitative and verbal subtests that sum to 1000 or more and scores on the Psychology Subject Test that exceed the 50th percentile. The Psychology Subject Test is waived for graduates who obtained a baccalaureate degree in Psychology within the last seven years with a psychology GPA of 3.00 or above.
5. Submission of a letter of intent describing the applicant's interest and purpose in studying psychology, and the reasons why an MS degree in Clinical Psychology at UAA is sought at this point in the applicant's professional development, is required of a complete application.
6. A minimum of two (preferably three) professional references must be submitted with all applications.
7. Documentation of academic, research, and practical experiences other than course work, vocational and professional experiences, special projects and activities, and recognitions or honors must be provided. The format for this documentation is flexible, but a vita is preferred.
8. Demonstration of professionalism, understanding of APA ethical guidelines, and appropriate professional ethical behavior is expected. Applicants should provide evidence of professional goals and aspirations that reflect understanding of the profession of psychology as it is governed by licensure and accreditation laws and as it relates to the UAA program in particular. Applicants should ask their professional referees to comment on these issues. Applicants may be requested to complete an interview with faculty to provide additional evidence of these skills and features.

Department approval for admission to graduate study is contingent upon the applicant's qualifications, interests, and available space.

Fully admitted status is prerequisite for:

- a. registering for PSY A665 Psychotherapy Practicum
- b. registering for PSY A670 Psychotherapy Internship
- c. preference in T.A. and R.A. appointments
- d. preference in registration for psychology classes

CANDIDACY REQUIREMENTS

See the beginning of this chapter for Advancement to Candidacy requirements. Students are eligible to apply for advancement to candidacy when they have completed the following courses:

PSY A611	Ethics and Professional Practice
PSY A623	Psychotherapy Skills
PSY A633	Psychological Assessment
One course from the Specialty Track requirements list.	

Candidacy status is a prerequisite to the following experiences:

PSY A670	Psychotherapy Internship
Participation in Comprehensive Exams	
Receipt of academic credit for Thesis (PSY A699A, B, or C)	

GRADUATION REQUIREMENTS

See University Requirements for Master's Degrees at the beginning of this chapter. A minimum grade of "B" or better is required of all course work applied to the degree. Strict compliance with APA Ethical Guidelines is required throughout participation in the degree program. Violations can result in immediate dismissal from the program.

To ensure students have the statistical skills to complete an empirical research project for their thesis (if they so choose) or to do well on the national licensing exam (if they wish to obtain a master's level license in Alaska), students must demonstrate minimal statistical proficiency prior to graduating with a M.S. degree. Proficiency can be demonstrated in one of three ways. First, students can obtain a score of 500 or above on the Quantitative portion of the Graduate Record Examination (GRE). Second, students can pass a proficiency exam given by the psychology department the week before classes start in the fall. Third, students can successfully complete our graduate statistics class, PSY A685 Quantitative Methods in Psychology. Students who take the proficiency exam but do not pass will be required to take PSY A685.

PROGRAM REQUIREMENTS

1. Required core courses for all four tracks (28 credits):

PSY A611	Ethics and Professional Practice	3
PSY A622	Psychopathology	3
PSY A623	Psychotherapy Skills	3
PSY A633	Psychological Assessment	3
PSY A639	Advanced Research Methods	3
PSY A654	Cultural Issues in Psychotherapy	3
PSY A665A	Psychotherapy Practicum: Psychological Assessment	1
PSY A665B	Psychotherapy Practicum: Psychological Services Center	3
PSY A670	Psychotherapy Internship (3-6)	6

Specialty Track Courses

Research Track

Required (22 credits):

PSY A698	Individual Research (1-4)	3
PSY A699A	Thesis: Research (1-6)	6
PSY A685	Quantitative Methods in Psychology	3
<i>Select two of the following three:</i>		6

PSY A624	Group Therapy (3)
PSY A626	Family Therapy (3)
PSY A645	Advanced Psychotherapy Skills (3)

Electives	4
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Clinical Track

Required (22 credits):

PSY A624	Group Therapy	3
PSY A626	Family Therapy	3
PSY A645	Advanced Psychotherapy Skills	3
PSY A689	Advanced Psychological Assessment	3
PSY A699C	Thesis: Creative Component (1-3)	3

Select one of the following three: 3

PSY A631	Cognitive Behavior Therapy (3)	
PSY A635	Advanced Psychodynamic Theory and Therapy (3)	
PSY A638	Child-Clinical Psychology (3)	

Electives* 4

*Note: PSY A612 is recommended for licensure.

Public Service Track

Required (22 credits):

PSY A624	Group Therapy	3
PSY A631	Cognitive Behavior Therapy	3
PSY A699B	Thesis: Public Service (1-3)	3

Select two of the following four: 6

PSY A626	Family Therapy (3)	
PSY A638	Child-Clinical Psychology (3)	
PSY A641	Applications of Community Psychology (3)	
PSY A645	Advanced Psychotherapy Skills (3)	

Electives 4

Addictive Behaviors Track

Required (22 credits):

PSY A643	AIDS and Substance Abuse Counseling	3
PSY A680	Advanced Issues in Addiction Studies (1-3)	3
PSY A682	Clinical Interventions for Addictive Behaviors	3
PSY A688	Assessment and Treatment Planning for Addictive Behaviors	3
PSY A699C	Thesis Creative Component (1-3)	3

Select one of the following two: 3

PSY A624	Group Therapy (3)	
PSY A626	Family Therapy (3)	

Electives 4

2. Electives:
Any 600-level course not required by the student's chosen track may be chosen as an elective. Any 400-level course offered by the department may serve as an elective with a maximum of 6 elective credits at the 400-level as approved by the student's advisor. 400-level courses may not be applied to both a baccalaureate and a masters degree.
3. Thesis and Creative Component:
Only students in the research track have to choose a traditional empirical thesis project. Students in the public service track will conduct a thesis of a slightly lesser work involvement than the research track thesis. Students in the clinical track and the addictive behaviors track will complete a Creative Component thesis, which is a professional project of their choice (approved by the thesis committee) that has relevance to their anticipated career. Under all circumstances, the student's work has to be defended in front of a committee chaired by the student's advisor.
4. A total of 50 credits is required for the degree.

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COMPUTER SCIENCEwww.math.uaa.alaska.edu

Social Sciences Building (SSB), Room 154, (907) 786-1742/4824

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 and the degree is awarded by UAF. The program is designed to accommodate computer science professionals working in the Anchorage area; courses are offered late afternoon and evening. For more information, contact the Department of Mathematical Sciences at UAA or visit our web site at www.math.uaa.alaska.edu.

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CREATIVE WRITING AND LITERARY ARTS

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aycwla@uaa.alaska.edu

Social Sciences Building (SSB), Room 352, (907) 786-4330

The Department of Creative Writing and Literary Arts offers a 45-credit Master of Fine Arts degree in Creative Writing and Literary Arts. The MFA is a professional degree which prepares students for various careers including those involving professional writing, teaching and editing. The MFA degree in Creative Writing and Literary Arts is generally a three-year degree, although some students may complete the requirements in a longer or shorter amount of time.

In their program of study in the Department of Creative Writing and Literary Arts, students can take courses in four areas: creative nonfiction, fiction, poetry, and drama for stage and screen. The emphasis of courses in this department is balanced between the study and practice of craft and the study of form and theory as it relates to style and content. Workshop courses under the CWLA prefix are "working" courses where students produce original works of literature and engage in productive critique of each other's writing.

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. A manuscript sample (approximately 20 pages of fiction or creative nonfiction or 10 poems).
2. Two letters of recommendation that address academic preparation and creative writing ability.
3. A letter of application which addresses the student's range of writing experience and the reasons for applying to the Master of Fine Arts program.

All materials must be received by the Department of Creative Writing and Literary Arts by January 31 to be considered for assistantships, and by April 1 for general admission into the program. Fall 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 15-21 credits from the following. Note that at least two areas must be studied:

CWLA A652	Graduate Writer's Workshop: Poetry (3)
CWLA A662	Graduate Writer's Workshop: Fiction (3)
CWLA A672	Graduate Writer's Workshop: Prose Nonfiction (3)
CWLA A682	Graduate Writer's Workshop: Drama for Stage and Screen (3)
2. Complete 6-12 credits of CWLA A690 Form and Theory. This is an umbrella course and may be repeated with changes in subtitle.
3. Complete 3-15 credits of approved electives in any department or discipline that complements the thesis project.
4. Complete 9 credits of Thesis Project — a book-length creative work.
5. Successful defense of the thesis.
6. A total of 45 credits is required for the degree.

FACULTY

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Linda McCarriston, Professor, AFLJM@uaa.alaska.edu

ENGLISH

<http://english.uaa.alaska.edu/>

Professional Studies Building (PSB), Room 212, (907) 786-4355

MASTER OF ARTS, ENGLISH

The Department of English offers a 36-credit Master of Arts in English with a choice of emphasis: literature or rhetoric. The degree prepares students for a wide variety of jobs in teaching, editing, marketing, and technical communication.

The MA in English with an emphasis in literature is designed to provide a solid ground in the periods and genres of English, American, and world literature. This coursework is supplemented by a menu of specialized studies in women's writing, critical theory, and cultural studies. The MA with an emphasis in rhetoric is designed to provide a background in the study of linguistic and rhetorical strategies through an examination of the history and analysis of language and rhetoric. This emphasis offers an opportunity for students to focus on technical writing and professional communication.

Regardless of emphasis, students enjoy significant flexibility in designing their degree: the only two required courses are Introduction to Graduate Studies, and Contemporary Critical Theory. Competitive teaching assistantships and research assistantships are available.

ADMISSION REQUIREMENTS

See Admission Requirements for Master's Degrees at the beginning of this chapter.

At the time of application, students must submit the following documents to the Master of Arts Program, Department of English:

1. A three-page application essay which addresses the student's background in English, reasons for applying to Master of Arts program, and learning goals.
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 this in the application essay.)
3. Documented GPA in all undergraduate English courses. Admission will depend upon the evaluation of the entire application packet. While the department does not have a rigid GPA requirement, successful applicants ordinarily have a grade point average of 3.5 or better in undergraduate English courses. An applicant who is weak in one area may, at the discretion of the department, be required to take additional course work at the undergraduate level.

Applicants to the graduate program who are also interested in a teaching assistantship should contact the Department of English for the TA application deadline.

CANDIDACY REQUIREMENTS

See the beginning of this chapter for Advancement to Candidacy requirements. No more than two-thirds of the credits applied to the degree may have been completed prior to the submission of a candidacy application. In addition, the student must complete a departmental requirement before advancing to candidacy:

Pass the department's Graduate Qualifying Examination. This exam, 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.

GRADUATION REQUIREMENTS

See University Requirements for Master's Degrees at the beginning of this chapter.

PROGRAM REQUIREMENTS

LITERATURE EMPHASIS

1. Complete the following before advancing to candidacy (6 credits):

ENGL A601	Introduction to Graduate Studies in English	3
ENGL A602	Contemporary Critical Theory	3
2. Complete 9 credits in period studies from the following:

ENGL A607	Studies in American Literature (3)	9
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 in genre studies from the following:

ENGL A636	Studies in Modern Criticism (3)	6
ENGL A651	Studies in Poetry (3)	
ENGL A661	Studies in Fiction (3)	
ENGL A671	Study in NonFiction Prose (3)	
ENGL A681	Studies in Drama (3)	

4. Complete 3 credits in specialized studies from the following:

ENGL A604	Studies in Women's Literature (3)	3
ENGL A606	Studies in the Development of the English Language (3)	
ENGL A676	Studies in Texts and Cultures (3)	
5. Complete at least 6 credits of ENGL A699 Thesis. Completion of the MA Thesis in English includes a thesis defense. 6
6. English electives (graduate or 400-level undergraduate) 6
7. A total of 36 credits is required for the degree.

RHETORIC EMPHASIS

1. Complete the following before advancing to candidacy (6 credits):

ENGL A601	Introduction to Graduate Studies in English	3
ENGL A602	Contemporary Critical Theory	3
2. Complete 12 credits in Composition and Rhetoric (12 credits):

ENGL A637	Studies in Style and Stylistics	3
ENGL A680	Studies in the History of Rhetoric	3
ENGL A685	Studies in Rhetorical Strategy	3
ENGL A687	Composition Theory and Practice	3
3. Complete 9 credits in specialized studies from the following:

ENGL A604	Studies in Women's Literature (3)	9
ENGL A606	Studies in the Development of the English Language (3)	
ENGL A636	Studies in Modern Criticism (3)	
ENGL A671	Studies in NonFiction Prose (3)	
ENGL A676	Studies in Texts and Cultures (3)	
4. Complete at least 6 credits of ENGL A699 Thesis. Completion of the MA thesis in English includes a thesis defense. 6
5. Complete one English elective at the graduate level 3
6. A total of 36 credits is required for the degree.

Note: Most graduate courses are offered on a two-year rotation. Exceptions are ENGL A601 and ENGL A687 (offered every fall semester) and ENGL A602 (offered every spring). A schedule of the planned rotation of graduate courses is available from the English office.

FACULTY

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COLLEGE OF BUSINESS AND PUBLIC POLICY

BUSINESS ADMINISTRATION

www.cbpp.uaa.alaska.edu

Business Education Building (BEB), Room 309, (907) 786-4129

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).

PROGRAM POLICIES AND ADMINISTRATION

Students must maintain a minimum 3.00 GPA on all course work 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 (7) calendar years.

The faculty reserves the right, where warranted by an evaluation of a student's progress and apparent knowledge, to require additional course work or other preparation to insure 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 accredited university, or foreign equivalent. In addition, it is highly desirable for incoming MBAs to have three years of full-time work experience. The majority of students meeting these conditions will be admitted, up to the limits of program capacity, based on their potential for success in graduate business studies. In general, two formulas using undergraduate performance as measured by the grade point average (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 \geq 1050
or
2. Upper-division GPA x 200 + GMAT \geq 1100

These formulas are minimums, and may not guarantee admission in cases where either the GPA or the GMAT scores are unusually low. 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 exam 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, with program length varying from 36 to 54 credits, depending upon previous business studies.

Students without undergraduate business or accounting degrees will take up to seven foundation courses (18 credits) designed to provide a basic foundation for further graduate work. 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
CIS A605	Information Systems for Managers	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 courses 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, non-credit courses, undergraduate course work, and/or seminars or workshops.

The main body of the MBA curriculum consists of nine core courses and three electives for a total of 36 credits of advanced course work:

ACCT A650	Seminar in Executive Uses of Accounting	3
BA A631	Business Environment Analysis	3
BA A632	Organizational Behavior and Human Resource Management	3
BA A633	Problem Formulation and Decision Analysis	3
BA A634	Creating the Successful Organization	3
BA A635	Current Marketing Issues Seminar	3
BA A636	Financial Decision Making	3
BA A655	Strategic Management Seminar	3
BA A656	Management Project	3
Three electives, all at the graduate (600) level		9

In certain cases, where warranted by previous education or experience, an MBA core course may be waived and an elective substituted. BA A656, Management Project, is required for every student, and the oral presentation of the project to the student's committee serves as the final comprehensive examination in the MBA program.

It is possible for full-time students to complete the 36 credits of MBA program in one calendar year, although most students will take longer. Core foundation requirements normally add a minimum of two semesters to the program completion time for full-time students.

FACULTY

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LOGISTICS

<http://logistics.alaska.edu/msgscm.asp>

Business Education Building (BEB), Room 309, (907) 786-4101

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, six-credit hours each, to be completed over five consecutive semesters. Time to completion is approximately twenty months for a total of thirty credit hours.

Classes meet exclusively on weekends. Each course requires four weekend meetings per semester. Between weekends, students are engaged in research and on-line 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 twenty-five 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 and undergraduate degree transcripts, and must complete the Graduate Management Admission Test (GMAT). The minimum acceptable GMAT score is determined by:

$$(\text{Undergraduate GPA} \times 200) + \text{GMAT score} \geq 1050.$$

Conditional admission may be granted if the GMAT has not been written 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 exam 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 credits (30 credits):

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

2. A total of 30 credits is required for the degree.

FACULTY

Dr. Oliver Hedgepeth, Asst. Prof./Chair, AFWOH@cbpp.uaa.alaska.edu
Dr. E.R. Baker, Term Professor, AFERB1@cbpp.uaa.alaska.edu
Dr. Darren Prokop, Assistant Professor and MS GSCM Program Director, AFDJP1@cbpp.uaa.alaska.edu

PUBLIC ADMINISTRATION

www.mpa.alaska.edu
Business Education Building (BEB), Room 309, (907) 786-1700

The Master of Public Administration (MPA) degree provides students with knowledge and skills needed for professional careers in public service. MPA students learn new techniques and add to their expertise in organizational and program management, policy analysis, and related areas with emphasis on policy and administrative issues in the North. 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, non-profit 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, non-profit 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. Upon approval of the student's advisor and dean, and by completing additional 21 credits of course work and meeting other degree requirements, an MPA student may receive both the MPA and the Master of Business Administration (MBA) degrees.

MASTER OF PUBLIC ADMINISTRATION

ADMISSION REQUIREMENTS

See the beginning of this chapter for Admission Requirements for Master's Degrees. Students applying for admission to the MPA program must take the Graduate Record Examination (GRE). They must submit with the UAA Application for Admission to Enrollment Services a 300-500 word statement on their career goals and how the MPA degree relates to them. Detailed admission standards available on our website (www.mpa.alaska.edu).

Students entering the MPA program are expected to have introductory-level knowledge of American government, statistics, and micro and macroeconomics with B or better within the last 5 years or permission of instructor.

The Master's in Public Administration represents more than an accumulation of credit. Qualified students may take graduate courses without being formally admitted to the program, but students seeking a degree should apply for admission before accumulating more than nine (9) credits in the program. Students normally will not be allowed to enroll for additional credits (beyond 9) without admission to the program.

ACADEMIC PROGRESS

To maintain satisfactory progress toward the degree, a student in the MPA program is expected to complete a minimum of six (6) semester credits each calendar year, commencing with the first term of enrollment. The six (6) semester credits may consist of either undergraduate prerequisite courses or graduate program courses. Failure to comply with the six (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.

PROGRAM REQUIREMENTS

1. Complete the MPA core courses (18 credits):

ECON A625	Economics and Public Policy	3
PADM A601	Introduction to Public Administration	3
PADM A602	Seminar in Public Management	3
PADM A604	Research Methods in Administration	3
PADM A606	The Policymaking Process	3
PADM A628	Administration of Financial Resources	3

2. Complete one of the following emphasis areas:

Public Management Emphasis (15 credits):

PADM A603	Management Analysis	3
PADM A610	Organizational Theory and Behavior	3
PADM A624	Human Resources Administration	3
Plus two 600-level electives		6

Policy Analysis Emphasis (15 credits):

PADM A632	Policy Analysis	3
Plus two 600-level electives		6

Health Administration Emphasis (15 credits):

PADM A624	Human Resources Administration	3
Plus one 600-level elective		3
Choose 3 courses from the following:		9
NS A626	Principles of Epidemiology (3)	
NS A658	Public Health Policy (3)	
NS A681	Analysis of Health Services (3)	
NS A682	Administrative Services (3)	

Criminal Justice Emphasis (15 credits):

JUST A625	Seminar in Criminal Violation	3
JUST A630	Justice Administration Theory and Practice	3
JUST A670	Administrative Law	3
Choose one of the following:		
JUST A640	Corrections Theory and Research	3
JUST A650	Policing Theory and Research	3
600-level elective		3

3. Candidates for the MPA who do not have public administration work experience must complete 1 additional course (3 credits):

PADM A620	Internship in Public Administration/ Policy (1-2)	3
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4. Take the core comprehensive exam after completing the core courses. This exam 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	3
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6. A total of 36-39 credits is required for the degree.

FACULTY

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COLLEGE OF EDUCATION

<http://ed.uaa.alaska.edu/>

Professional Studies Building (PSB), Room 234, (907) 786-4401

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.

We believe that learning must be designed, delivered, and evaluated within the contexts of the following core values and program outcomes. Consequently, the College of Education promotes the 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.

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. Our professional preparation programs are approved by the Alaska Department of Education and Early Development and meet the accreditation standards established by the National Association of State Directors of Teacher Education and Certification.

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. 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.

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. 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 web site.

Applicants admitted to the M.Ed. work with a three-member committee composed of faculty from the major and related areas. The committee 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. Candidates admitted to a graduate certification or endorsement only program are assigned to a faculty member who serves as an academic advisor.

The College of Education has three academic departments:

1. The Department of Teaching and Learning with programs in early childhood education, elementary education, and secondary education. (907) 786-4412
2. The Department of 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 adult education and educational leadership (principal and superintendent preparation). (907) 786-4450

PROFESSIONAL AND CONTINUING EDUCATION

<http://pace.uaa.alaska.edu/>

The Office of Professional and Continuing Education (PACE) facilitates professional development opportunities for educators and other service professionals. PACE works collaboratively with UAA academic units and partner organizations to provide responsive service and support for 500-level courses, workshops, conferences, institutes, and academies. Committed to addressing the community's immediate and changing professional development needs, PACE works closely with school districts, professional societies, and private and government agencies.

MASTER OF ARTS IN TEACHING

<http://ed.uaa.alaska.edu/academics/masters.html>

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 course work 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.

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 March 1 for applicants seeking summer admission. Students are admitted and proceed through the program as a cohort. An application packet is available on the web site.

Applicants for the MAT degree must meet subject area requirements for a teaching endorsement. Approved teaching endorsement areas for the MAT are:

- English as a Second Language
- English/Language Arts
- General Science
- Mathematics
- Music
- Social Studies
- Vocational Education
- World Languages (this endorsement is for a specific language)

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 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 course work 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 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 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 potential candidate for admission, then an admissions interview is scheduled.

Applicant's knowledge, skills and dispositions as documented in the MAT application packet and demonstrated in the admissions interview will be holistically evaluated.

If the applicant is recommended for admission based on the preliminary review and admissions interview, a physical exam and a background check must be passed prior to admission to the internships.

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 degree by the start date of the graduate-level course work with an expected minimum of a 3.00 G.P.A. in the last 30 credits of the baccalaureate degree or subsequent graduate-level coursework.
2. Verifiable documentation of the ability to do graduate-level work, for example, scores on the Graduate Record Exam (GRE) general sub-tests (verbal reasoning, quantitative reasoning, analytical writing), scores on the Miller Analogies Test, successful completion of a graduate degree, or successful completion of a senior thesis in the baccalaureate degree major. An acceptable senior thesis must document the ability to perform graduate-level work.
3. 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.
4. Scores from the relevant content knowledge Praxis II test. Competitive scores will be at the national median or higher.
5. 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.
6. A brief narrative that provides documentation of technology skills.
7. An essay addressing questions based on the MAT program purpose and outcomes, as described in the application packet.
8. Documentation of experience with school-aged children and adolescents.
9. A current resume.
10. Three 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 academic expertise in the endorsement area.

Stage II: Admissions Interview

11. 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.

ADDITIONAL REQUIREMENTS

Applicants accepted for admission must provide the following documents.

1. 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. Failure to pass the background check will result in removal from the program.
2. Documentation of a current physical exam and negative TB skin test.

ACADEMIC PROGRESS

Candidates enrolled in the MAT must maintain a minimum GPA of 3.00, with no individual course grade lower than a "C." ED A624 Capstone Seminar: Inquiry in Teaching and Learning, CTE A624 Capstone Seminar: Inquiry in Teaching and Learning, ED A478 Issues in Alaska Native Education, K-12, and ED A424 Foundations of Modern Educational Practice 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," cannot 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.

CANDIDACY REQUIREMENTS

See the beginning of this chapter for Advancement to Candidacy requirements.

GRADUATION REQUIREMENTS

See the beginning of this chapter for University Requirements for Master's Degrees.

PROGRAM REQUIREMENTS

- A. Master of Arts in Teaching - Secondary Education 7-12 with a teaching endorsement in Mathematics, English/Language Arts, Social Studies, General Science, Vocational Education, English as a Second Language, or World Languages**

1. Semester 1	0 - 9
ED A424 Foundations of Modern Educational Practice	6
ED A478 Issues in Alaska Native Education, K-12	3

A minimum grade of B is required to apply the above courses to the MAT.

If the above courses were taken as part of an undergraduate program, these courses may be waived for the MAT.

2. Semester 2	14
ED A630 Language, Culture, and Teaching in Secondary Schools	2
ED A644 Developing a Community of Learners in Middle/High School	3
ED A663A Middle/High School English/Language Arts Methods I (4)	4
OR	
ED A664A Middle/High School Social Studies Methods I (4)	
OR	
ED A665A Middle/High School Mathematics Methods I (4)	
OR	
ED A669A Middle/High School Science Methods I (4)	
OR	
CTE A643A Middle/High School CTE Methods I (4)	
OR	
LANG A667A Middle/High School Second Language Teaching I (4)	
ED A695A Internship I	
OR	
CTE A695A Internship I	3
EDSE A637 Inclusive Teaching and Learning in Secondary Schools	2

3. Semester 3	16
ED A648 Literacy Development in the Content Areas	2
ED A649 Capstone Seminar: Inquiry in Teaching and Learning (3)	
OR	
CTE A649 Capstone Seminar: Inquiry in Teaching and Learning (3)	
ED A663B Middle/High School English/Language Arts Methods II (2)	2
OR	
ED A664B Middle/High School Social Studies Methods II (2)	
OR	
ED A665B Middle/High School Mathematics Methods II (2)	
OR	
ED A669B Middle/High School Science Methods II (2)	
OR	
CTE A643B Middle/High School CTE Methods II (2)	
OR	
LANG A667B Middle/High School Second-Language Teaching II (2)	
OR	
LANG A667C Middle/High School Methods for Teaching English as a Second Language (2)	
ED A695B Internship II (9)	
OR	
CTE A695B Internship II (9)	

4. Total credits for degree: 30-39
5. Candidates must successfully complete a comprehensive portfolio demonstrating that they have met all of the applicable standards.

Note: Minimum grade of B required in ED A649/CTE A649.

- B. Master of Arts in Teaching - K-12 with a teaching endorsement in Music**

1. Semester 1	0 - 9
ED A424 Foundations of Modern Educational Practice	6
ED A478 Issues in Alaska Native Education, K-12	3

A minimum grade of B is required to apply the above courses to the MAT.

If the above courses were taken as part of an undergraduate program, these courses may be waived for the MAT.

2. Semester 2	15
ED A630 Language, Culture, and Teaching in Secondary Schools	2
ED A644 Learning Communities in Middle/High School	3
ED A695A Internship I	3
EDSE A482 Inclusive Classrooms for All Children	3
MUS A668A Methods for Teaching Music I, K-12	4
3. Semester 3	16
ED A648 Literacy Development in the Content Areas	2
ED A649 Capstone Seminar: Inquiry in Teaching and Learning	3
ED A695B Internship II	9
MUS A668B Methods for Teaching Music II, K-12	2
4. Total credits for degree:	31-40
5. Candidates must successfully complete a comprehensive portfolio demonstrating that they have met all of the applicable standards.	

Note: Minimum grade of B required in ED A649.

PROFESSIONAL FIELD EXPERIENCES

The Master of Arts in Teaching degree program includes an internship experience that results in an academic-year-long, intensive immersion of teacher candidates in educational settings. Internship placements are arranged and supervised by University faculty in partnership with the principal and staff from the public school. University course work and classroom practice are closely linked, and communication about performance in both the course work and classroom practice is shared among the partners. Teacher candidates report to their internship placements at the beginning of the K-12 school year and continue in their public school classrooms until the K-12 school year ends.

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 Alaska's 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 of 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 candidates according to the district's established policies and practices. Because cooperating districts also determine the number of placements available for candidates, placements 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 degree 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 exams;
4. Satisfactorily completed internships;
5. Met all standards listed in the standards-based "Initial Endorsement Content Preparation Review."

MASTER OF EDUCATION

Within the curriculum of the M.Ed. program are several options, each with its own set of specific requirements. Each is designed to provide the student with advanced preparation in professional education. Some also lead to endorsement or certification. M.Ed. options are:

1. **Master Teacher with Specialty Options**
Middle School Education - *admission suspended*
Curriculum and Instruction
Early Childhood (without endorsement)
Early Childhood (with endorsement through UAS)
Educational Technology (without endorsement)
Educational Technology (with endorsement)
2. **Counselor Education**
Counseling (K-8)
Counseling (7-12)
Counseling (K-8 & 7-12)
General Counseling
Adult Counseling
Vocational Education Counseling
3. **Educational Leadership**
Principal (K-8)
Principal (7-12)
Principal (K-8 & 7-12)
4. **Special Education**
5. **Early Childhood Special Education**
6. **Adult Education**
Counselor Education
Distance Learning and Technology
Human Resource Development and Leadership
Curriculum and Instruction

PROFESSIONAL FIELD PRACTICE

Prior to permitting the candidate to enter the final stage of preparation, which is characterized 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

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.

Candidates who have taken all or part of an approved program at another university must take at least nine credits of approved education courses at the University of Alaska prior to being admitted to an advanced practicum or internship.

ADMISSION REQUIREMENTS

See the beginning of this chapter for Admission Requirements for Master's Degrees. Applicants applying for the Master of Education must also complete the following:

1. Take the General Test portion of the Graduate Record Examination (GRE), or Miller Analogies Test (MAT), as required. Contact each academic department for specific tests.
2. Prepare materials for a file in the College of Education by completing an application form and submitting other required materials. Information about specific programs is available on the web site. Applicants without appropriate and recent experience in the field may be required to sign up for a supervised practicum prior to admission.
3. Applicant files are reviewed twice each year, October 15 and March 15. It is the applicant's responsibility to have the file completed and submitted by these dates.
4. An official Graduate Studies Plan must be approved before completion of more than nine credits of course work.

ADMISSION PROCEDURES

When all official transcripts, examination scores, and other required materials are received by Enrollment Services, 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 a Graduate Committee (see admission requirements above). Applicants may be contacted for scheduling personal interviews with the committee after their completed files are received. Written notification of committee action is sent to the applicant. One of the following actions can be expected from the Graduate Committee:

1. Complete admission.
2. Provisional admission with specified provisions.
3. Denial of admission for stated reasons.

Criteria for Admission

Minimum Qualifications:

1. Hold a baccalaureate degree.
2. Have a grade point average of 3.00 (on a 4.00 point scale) in the last 30 credits.
3. Graduate Record Examination with a combined verbal and quantitative score of 800 or the Miller Analogies Test with scores at or above the 40th percentile.*

**The M.Ed. in Special Education has different requirements. Contact the department for further information.*

Competitive Qualifications

Applicants who meet the above criteria are considered for program admission on a competitive basis.

CANDIDACY REQUIREMENTS

See the beginning of this chapter for Advancement to Candidacy requirements.

When the student is in the final course work, the Graduate Committee will review the student's progress for admission to candidacy. Candidacy allows the student to enter the final program phase, which includes a written or oral comprehensive examination and, in some programs, the development of a portfolio, thesis, or investigative project. Candidates must have completed their course work with the minimum of a 3.0 GPA. The M.Ed. - Special Education Program requires a grade of "B" or better in all EDSE course work. No "C" grade earned in an undergraduate course can be counted toward a master's program. In addition, the committee may seek evidence of a candidate's acceptable performance in written expression.

GRADUATION REQUIREMENTS

See the beginning of this chapter for general university requirements for graduate degrees and master's level graduation requirements.

Candidates completing the Master of Education degree must also complete the following requirements:

1. At least one year successful contract teaching, with the exception of Adult Education and Counselor Education. For certification purposes, principal candidates must have three years successful contract teaching and the superintendent candidates must have five years (minimum three years as a teacher and one as an administrator).
2. An approved official program plan before completion of 9 credits of course work.
3. A minimum of 21 credits in a program at the graduate (600) level.
4. A minimum of 36 credits of approved course work.
5. At least 18 credits must be completed after the semester in which the student was admitted and approved by the graduate committee.
6. Pass a comprehensive written examination on the education "core" studies and the area of specialization. An oral examination may also be required by the student's committee.

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, course work 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. Special Education requires a grade of "B" or higher.
2. Cumulative GPA of 3.00 in the program coursework.
3. For endorsements, all requirements for a current Type A certificate must be successfully met.
4. All programs, with the exception of Counselor Education, require at least one year of appropriate professional experience related to the student's course of study. For Principal Type B Certificates, candidates must have three years of successful contract teaching.
5. For the Principal Type B Certificate, the M.Ed. must be conferred.
6. Demonstration of basic computer/technology competence. See specific programs for additional information.

PROGRAM REQUIREMENTS (M.Ed.)

Complete one of the following courses of study:

A. MASTER TEACHER WITH SPECIALITY OPTIONS

The M.Ed. in Master Teacher Specialty Options is designed for classroom teachers with Type A certificates who are seeking advanced professional education. Programs can be planned in such areas as:

Middle School Education - *admission suspended*
Curriculum and Instruction
Early Childhood*
Educational Technology

* This program will be delivered collaboratively, via distance education, with University of Alaska Southeast.

1. Middle School Education - *admission suspended*

2. Curriculum and Instruction

Applicants selecting the Curriculum and Instruction specialty option shall complete the following core courses and their specialty option course work. See an academic advisor to plan specific course work for the specialty option.

a. Core courses (18 credits):

ED A621	Culture, Language and Literacy	3
ED A622	Philosophy of Education	3
ED A627	Education Research	3
ED A631	Advanced Educational Psychology	3
ED A651	Curriculum Theory and Development	3
ED A698	Individual Research (1-6)	3

b. Select a specialty option consisting of a minimum of 18 credits. Candidates may concentrate their studies in such areas as elementary, secondary, reading, etc. See a faculty advisor to plan specific course work.

c. A total of 36 credits is required for the degree.

3a. Early Childhood (without endorsement)

a. Core courses (15 credits):

ED A621	Culture, Language and Literacy	3
ED A622	Philosophy of Education	3
ED A627	Education Research	3
ED A631	Advanced Educational Psychology	3
ED A698	Individual Research (1-6)	3

b. Required Courses (21 credits):

ECD A601	Approaches in Early Childhood: Preschool	3
ECD A605	Early Childhood Education Principles and Practices	3
ED S610	Guidance and Discipline in Early Childhood Education	3
ECD A652	How Young Children Learn: The Development and Learning Processes of Young Children	3
EDSE A622Y	Strategies: Early Childhood Special Education	3
EDSE A674	Families: Developing Parent Professional Partnerships	3
ECD	Electives by Advisement	3

c. A total of 36 credits is required for the degree without endorsement.

3b. Early Childhood (with endorsement):

a. Core courses (15 credits):

ED A621	Culture, Language and Literacy	3
ED A622	Philosophy of Education	3
ED A627	Education Research	3
ED A631	Advanced Educational Psychology	3
ED A698	Individual Research (1-6)	3

b. Required Courses (18 credits):

ECD A601	Approaches in Early Childhood: Preschool	3
ECD A605	Early Childhood Education Principles and Practices	3
ED S610	Guidance and Discipline in Early Childhood Education	3
ECD A652	How Young Children Learn: The Development and Learning Processes of Young Children	3
EDSE A622Y	Strategies: Early Childhood Special Education	3
EDSE A674	Families: Developing Parent Professional Partnerships	3

c. Choose one of the following endorsement tracks (9 credits):

1. Pre-K-Primary Endorsement:

Only the University of Alaska Southeast (UAS) is authorized to recommend candidates for the Pre-K-Primary Endorsement. Candidates completing the following endorsement track must apply for an institutional recommendation from UAS.

ECD A664	Advanced Studies in Classroom Management for Young Children	3
ED S465	Math and Science for Young Children	3
ED S661	Advanced Studies in Young Children and Literacy	3

2. Early Intervention Credential/Early Childhood Special Education Endorsement:

Note: Admission to this track is suspended.

EDSE A610Y	Assessment: Early Childhood Special Education	3
EDSE A620Y	Advanced Internship: Early Childhood	3
EDSE A681	Issues in Early Childhood Special Education	3

d. A total of 42 credits is required for the degree with endorsement.

4a. Educational Technology (without endorsement)

a. Core courses (18 credits):

ED A621	Culture, Language and Literacy	3
ED A622	Philosophy of Education	3
ED A627	Education Research	3
ED A631	Advanced Educational Psychology	3
ED A651	Curriculum Theory and Development	3
ED A698	Individual Research (1-6)	3

b. Required courses (18 credits):

ED A626	Technology in Teaching and Learning	3
ED A629	Multimedia Tools for Learning	3
ED A652	Educational Telecommunications and the Internet	3
ED A655	Implementing the Standards: Integrating Educational Technology into the Curriculum	3
	Technology Electives (by advisement)	6

c. A total of 36 credits is required for the degree without endorsement.

- 4b. Educational Technology (with endorsement)
- a. Core courses (18 credits):
- | | | |
|---------|-----------------------------------|---|
| ED A621 | Culture, Language and Literacy | 3 |
| ED A622 | Philosophy of Education | 3 |
| ED A627 | Education Research | 3 |
| ED A631 | Advanced Educational Psychology | 3 |
| ED A651 | Curriculum Theory and Development | 3 |
| ED A698 | Individual Research (1-6) | 3 |
- b. Required courses (21 credits):
- | | | |
|---------|--|---|
| ED A626 | Technology in Teaching and Learning | 3 |
| ED A629 | Multimedia Tools for Teachers | 3 |
| ED A652 | Ed Telecommunications and the Internet | 3 |
| ED A655 | Implementing the Standards: Integrating Educational Technology into the Curriculum | 3 |
| ED A657 | Educational Technology Portfolio Development and Assessment Center | 3 |
| | Technology Electives (by advisement) | 6 |
- c. A total of 39 credits is required for the degree with endorsement.

B. COUNSELOR EDUCATION

<http://ed.uaa.alaska.edu/counseling/index.htm>

The M.Ed. in Counselor Education is designed to serve college graduates who have selected careers as professional counselors. The program encompasses theory, research, and practice related to professional counseling of children, adolescents or adults in schools and agencies.

1. Education Core (9 credits):
- | | | |
|---------|--------------------------------------|---|
| ED A612 | Community Relations | 3 |
| ED A627 | Educational Research | 3 |
| ED A636 | Innovations in Teaching and Learning | 3 |

Students who already possess a Master's degree may request waiver of the core education courses.

2. Counselor Education Core (18-21 credits):

COUN A610	Foundations in Counseling	3
COUN A614	Counseling Diverse Populations	3
COUN A616	Counseling Theories	3
COUN A623	Counseling Skills	3
COUN A624	Group Counseling	3
COUN A632	Career Development	3
COUN A633	High Risk Issues for Youth*	3

**Note: This course is not required for the Adult Counseling or the Vocational Education Options.*

3. Choose one of six options:
Options a, b, and c may lead to an Alaska Type C Certificate-Counseling and Guidance Special Services.
Candidates seeking a certificate will need appropriate courses in multicultural education/cross-cultural communication and Alaska studies.

Certification Options

- a. Elementary (K-8) School Counseling (12 credits):
- | | | |
|-----------|--|---|
| COUN A611 | Roles and Responsibilities of the Elementary Counselor | 3 |
| COUN A634 | Counseling Practicum I (Elementary Level) | 3 |
| COUN A636 | Counseling Practicum II (Elementary Level or Agency) | 3 |
| | Electives by advisement | 3 |
- b. Secondary (7-12) School Counseling (12 credits):
- | | | |
|-----------|--|---|
| COUN A615 | Roles and Responsibilities of a Secondary School Counselor | 3 |
| COUN A634 | Counseling Practicum I (Secondary Level) | 3 |
| COUN A636 | Counseling Practicum II (Secondary Level or Agency) | 3 |
| | Electives by advisement | 3 |

- c. K-8 & 7-12 School Counseling (15 credits):

COUN A611	Roles and Responsibilities of the Elementary Counselor	3
COUN A615	Roles and Responsibilities of a Secondary School Counselor	3
COUN A634	Counseling Practicum I (Elementary Level)	3
COUN A636	Counseling Practicum II (Middle level or High School)	3
	Electives by advisement	3

Non-Certificated Options

The following options do not lead to a Type C Certificate.

- d. General Counseling (12 credits):

COUN A634	Counseling Practicum I (Agency)	3
COUN A636	Counseling Practicum II (Agency)	3
	Electives by advisement	6

- e. Adult Counseling (15 credits):

EDAE A645	Teaching of Adults	3
EDAE A655	The Adult Learner	3
COUN A634	Counseling Practicum I (Agency)	3
COUN A636	Counseling Practicum II (Agency)	3
	Electives by advisement	3

- f. Vocational Education Counseling (15 credits):

VE A611	Philosophical Foundations of Vocational Education	3
VE A633	Current Issues in Vocational Education	3
COUN A634	Counseling Practicum I (Agency)	3
COUN A636	Counseling Practicum II (Agency)	3
	Electives by advisement	3

4. A total of 42-45 credits, is required for the degree.

C. EDUCATIONAL LEADERSHIP

<http://akedl.edu>

The M.Ed. in Educational Leadership is designed for individuals seeking advanced professional preparation to become a principal. The UAA Educational Leadership program has a statewide mission.

ADMISSION REQUIREMENTS

- At least one year of experience as a certificated elementary or secondary teacher.
- Eligible for Alaska Teaching Certificate.
- GRE/MAT for Masters of Education program only.

Principal Type B Certificate Program Requirements (K-8, 7-12, K-8 & 7-12)

- Foundation Core (12 credits):

ED A627	Education Research	3
ED A636	Innovations in Teaching and Learning	3
	600-level electives by Advisement	6
- Required Courses (24 credits):

EDL A637	Educational Leadership and Organizational Behavior	3
EDL A638	Instructional and Curricular Leadership	3
EDL A639	Politics of Education	3
EDL A640	Law and Ethics in Education	3
EDL A641	Principal Internship (3-6)	6
EDL A642	Principal Seminar I	3
EDL A643	Principal Seminar II	3
- A total of 36 credits is required for the degree and to apply for an institutional recommendation for a Type B certificate from the Alaska Department of Education and Early Development.

D. SPECIAL EDUCATION

<http://sped.uaa.alaska.edu/>

The M.Ed. in Special Education 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.

Refer to the web site for information about opportunities in speech and language pathology.

The UAA Special Education Department has a statewide mission and delivers the degree course work by distance.

SPECIAL ADMISSION REQUIREMENTS

1. At least two years of appropriate professional experience. See Department for more information.
2. Applicants to this program must take the Graduate Record Examination. Contact the Department of Special Education for passing scores. The Miller Analogies Test is not accepted.
3. Three letters of professional recommendation or teaching evaluations.

PROGRAM REQUIREMENTS

1. Required courses (36 credits):

ED A627	Education Research	3
EDSE A640	Advanced Theories of Disabilities	3
EDSE A671	The Impact of Social Issues on Education	3
EDSE A642	Current Trends in Special Education	3
EDSE A698	Individual Research (1-6)	6
	or	
EDSE A699	Thesis (1-6)	6
	Electives by advisement	18
2. Documentation of computer technology skills or completion of ED A302, ED A626 or equivalent course.
3. A total of 36 credits is required for the degree.
4. In addition to the M.Ed., students who already possess a Type A certificate may receive a special education endorsement at the developmental level listed on the existing certificate. The endorsement courses must be completed with a minimum grade of B, and may be used to fulfill elective requirements for the M.Ed.

Note: Admission of the M.Ed is required to enroll in the endorsement courses.

5. Prerequisite courses must be completed prior to enrolling in the endorsement courses. These courses include child development, classroom management, elementary reading methods and elementary math methods. See an advisor in the Department of Special Education.
6. Required endorsement courses (24 credits):

EDSE A482	Inclusive Classrooms for All Children	3
EDSE A610	Assessment: Learning and Behavior	3
EDSE A612	Curriculum and Instruction in Special Education	3
EDSE A614	Beginning Internship in Special Education	3
EDSE A620	Advanced Internship in Special Education	6
EDSE A622	Educational Strategies in Special Education	3
EDSE A671	The Impact of Social Issues on Education	3
7. The development of a professional portfolio is required.
8. A total of 24 credits is required for the endorsement. In addition, prerequisites of up to 12 credits may be required. The degree and endorsement course work, excluding prerequisites, total 39 credits.

E. EARLY CHILDHOOD SPECIAL EDUCATION*

<http://www.alaskachd.org/ecse/index.html>

The M.Ed. 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 five years of age who experience disabilities.

SPECIAL ADMISSION REQUIREMENTS

1. At least two years of appropriate professional experience. See Department for more information.
2. Acceptable scores on the GRE or Miller Analogies Test. Contact the Department of Special Education for passing scores.
3. Two letters of professional recommendation.

PROGRAM REQUIREMENTS

1. Required Courses (36 credits):

ED A627	Education Research	3
EDSE A474	Special Children from Birth through Five	3
EDSE A610Y	Assessment: Early Childhood Special Education	3
EDSE A620Y	Advanced Internship: Early Childhood	6
EDSE A622Y	Strategies: Early Childhood Special Education	3
EDSE A674	Families: Developing Parent Professional Partnerships	3
EDSE A681	Issues in Early Childhood Special Education	3
EDSE A685	Young Children with Complex Needs	3
	Electives by advisement	9
2. A total of 36 credits is required for the degree.

Note: ED A302 or ED A626 may be required prerequisites if student lacks previous appropriate course work or skills.

* Students who enter this program with a Type A Certificate will exit with an Endorsement in Birth to Five and a Master of Education in Early Childhood Special Education. Candidates who do not possess a Type "A" Certificate will exit with a Master of Education in Early Childhood Special Education without endorsement.

F. ADULT EDUCATION**

<http://ed.uaa.alaska.edu/adult/index.html>

The M.Ed. in Adult Education program is designed for college graduates with career experience who strive to enhance their knowledge and skills in serving adult learners and who have a commitment to lifelong learning. The program encompasses theory, research, and practice related to adult learning and teaching.

***This program has special admission requirements. Refer to the web site for further information.*

1. Beginning core courses (12 credits):

EDAE A645	The Teaching of Adults	3
EDAE A655	The Adult Learner	3
EDAE A665	History and Philosophy of Adult Education	3
ED A627	Education Research	3
2. Complete one of four emphasis areas (6 credits):
 - a. Curriculum and Instruction

EDAE A678	Curriculum and Program Planning in Adult Education	3
EDAE A679	Methods and Materials in Adult Education	3

- | | | | |
|--|--|--|------|
| b. Human Resource Development and Leadership | | | |
| EDAE A650 | Principles of Human Resource Development | | 3 |
| EDAE A657 | Leadership (3) | | 3 |
| or | | | |
| EDAE A658 | Organization and Administration of Adult Education (3) | | |
| c. Counselor Education | | | |
| COUN A616 | Counseling Theories | | 3 |
| COUN A623 | Counseling Skills | | 3 |
| d. Distance Learning and Technology | | | |
| EDAE A667 | Distance Learning and Adult Education | | 3 |
| ED A626 | Technology in Teaching and Learning (3) | | |
| or | | | |
| ED A629 | Multimedia Tools for Learning (3) | | 3 |
| 3. Final core courses (7-12 credits): | | | |
| EDAE A691 | Professional Seminar | | 3 |
| EDAE A695 | Advanced Practicum in Adult Education | | 1-6 |
| EDAE A698 | Individual Research (1-3) | | 3 |
| or | | | |
| EDAE A699 | Thesis (1-3) | | 3 |
| 4. Electives by advisement | | | 6-11 |
| 5. In lieu of a comprehensive examination, M.Ed. candidates in Adult Education prepare a portfolio throughout the program to verify their knowledge and skill in adult education excellencies. At program conclusion candidates will present their portfolios to their committee members. | | | |
| 6. A total of 36 credits is required for the degree. | | | |

GRADUATE CERTIFICATION/ENDORSEMENT ONLY PROGRAMS

The College of Education recommends candidates for certification or endorsement to the Alaska Department of Education and Early Development upon successful completion of graduate programs in Educational Leadership (Principal [K-8], Principal [7-12], Principal [K-8 & 7-12], and Superintendent), and Educational Technology. Candidates admitted to a graduate certification/endorsement only program are assigned to a faculty member who serves as an academic advisor. Contact the College of Education for specific certification and endorsement requirements. Only courses with a grade of "C" or better may be applied to meet certification or endorsement requirements. Candidates must meet all the course requirements as approved by the Alaska Department of Education and Early Development.

Graduate certification and endorsement options:

1. Educational Leadership
 - Principal (K-8)
 - Principal (7-12)
 - Principal (K-8 & 7-12)
 - Superintendent
2. Educational Technology

Note: A post-baccalaureate undergraduate elementary education certification program is also available. See the undergraduate section of the catalog for more information.

PROFESSIONAL FIELD PRACTICE

Prior to permitting the candidate to enter the final stage of preparation, which is characterized 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 program chair and the dean.

ADMISSION REQUIREMENTS

Contact the Department web sites for admission requirements.

NOTE: Eligibility requirements for some financial aid opportunities include admission to a specific degree program.

A. Educational Leadership

<http://akedl.edu/>

The Principal Type B Certificate and the Superintendent's Endorsement are designed for individuals who have master's degrees and who seek advanced professional preparation to become principals or superintendents.

Principal Type B Certificate (K-8, 7-12, or K-8 & 7-12):

1. Required courses (24 credits):

EDL A637	Educational Leadership and Organizational Behavior	3
EDL A638	Instructional and Curricular Leadership	3
EDL A639	Politics of Education	3
EDL A640	Law and Ethics in Education	3
EDL A641	Principal Internship (3-6)	6
EDL A642	Principal Seminar I	3
EDL A643	Principal Seminar II	3
2. A total of 24 credits is required to apply for an institutional recommendation for a Type B certificate from the Alaska Department of Education and Early Development.

Superintendent's Endorsement:

Individuals who seek a superintendent's endorsement must complete a principal preparation program, possess a master's degree, and meet all preservice Alaska Department of Education and Early Development requirements for endorsement.

1. 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	6
EDL A676	Superintendent Seminar I	3
EDL A677	Superintendent Seminar II	3

2. A total of 24 credits is required to apply for an institutional recommendation for the superintendent endorsement.
- B. **Educational Technology**
Contact the Department of Teaching and Learning for information about the Educational Technology Endorsement.

INSTITUTIONAL RECOMMENDATION

Following are the requirements for an institutional recommendation:

1. All program courses must be completed with a grade of "C" or higher.
2. A cumulative GPA of 3.00 in the program coursework.
3. For endorsements, all requirements for a current Type A certificate must be successfully met.
4. All programs, with the exception of Counselor Education, require at least one year of appropriate professional experience related to the student's course of study. For Principal Type B Certificates, candidates must have three years of successful contract teaching. For a Superintendent's Endorsement, candidates must have five years (minimum three years as a teacher and one as an administrator) of experience.
5. For the Principal Type B Certificate and Superintendent's Endorsement the M.Ed. must be conferred.
6. Demonstration of basic computer/technology competence. See specific programs for additional information.

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COLLEGE OF HEALTH AND SOCIAL WELFARE

SCHOOL OF NURSING

<http://nursing.uaa.alaska.edu>

Professional Studies Building (PSB), Room 103, (907) 786-4550

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 Community Health Nursing, Psychiatric-Mental Health Nursing, Health Care Administration, or as a Family 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 exam for advanced nursing administration. Graduates of the Psychiatric-Mental Health Nursing Option are eligible to write the national certification examination for advanced practice as a clinical specialist in psychiatric-mental health nursing or psychiatric-mental health nurse practitioner-adult, or psychiatric and mental health nurse practitioner-family. Graduates of the Community Health Nursing Option are eligible to write the national certification examination for advanced practice as a clinical specialist in community health nursing.

MASTER OF SCIENCE, NURSING SCIENCE

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 15th for March 1 applicants

August 15th for November 1 applicants

Students applying to the Master of Science program 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.
2. Undergraduate (and graduate, if applicable) grade point average of 3.00 on a 4.00 scale.
3. Scores from the Graduate Record Examination or Miller's Analogy Test.
4. Grade of 2.00 ("C" or higher) in a 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 reference submitted directly to the School of Nursing. References may be contacted by a member of the Admissions Committee.

8. Essay relative to career goals, career development plans and personal/professional philosophy submitted directly to the School of Nursing.
9. Minimum of one year of half-time clinical experience as a Registered Nurse.

Application deadlines:

November 1 GRADUATE STUDY only.
 March 1 GRADUATE STUDY and/or CLINICAL SPECIALTY.

Special consideration may be given to candidates with clinical expertise and a proven record of professional contributions. Such candidates must submit documentation of their expertise and contributions along with their request to the Admissions Committee for special consideration. 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 Nursing Program must maintain a 3.0 (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, 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.

GRADUATION REQUIREMENTS

See the beginning of this chapter for University Requirements for Master's Degrees.

PROGRAM REQUIREMENTS

1. Complete the following required courses (18 credits):

NS A620	Nursing Research Methods	3
NS A621	Knowledge Development for Advanced Nursing Practice	4
HS/NS A625	Biostatistics for Health Professionals	3
NS A642	Professional Nursing in Perspective	3
NS A699	Thesis (2-3)	5

2. Complete one of the following options (22-32 credits):

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	6
NS A663	Family Nurse Practitioner IV	5
Elective		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
Elective		3

Community Health Nursing Option (25 credits):

NS A626	Principles of Epidemiology	3
NS A650	Advanced Community Health Nursing I	4
NS A651	Advanced Community Health Nursing II	4
NS A652	Advanced Community Health Nursing III	4
NS A656	Grant Writing for Health Professionals	1
NS A658	Public Health Policy	3
Electives		6

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 Fieldwork (Optional)	1

NS A695 Practicum in Health Care Administration 4

Choose either set of nine credits from the following:

PADM A610	Organizational Theory and Behavior (3)	9
PADM A624	Human Resources Administration (3)	
Elective	Advisor approved(3)	

or

BA A632	Organizational Behavior and Human Resource Management (3)	
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Electives, Advisor approved (6)

3. A total of 40-50 credits is required for the degree

CANDIDACY

The student is eligible for advancement to candidacy after demonstration of ability to succeed in graduate study through approval of the thesis proposal by the student's thesis committee and the UAA Institutional Review Board (IRB).

THESIS CREDITS

A total of 5 credits of thesis is required for the degree. Students who are unable to complete the thesis while registered for 5 credits may be given a DF (deferred) grade for one semester; those students 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 during these three semesters will be required to register for 2 credits of NS A699 Thesis every semester thereafter (excluding summer sessions) until the thesis is satisfactorily completed. There is no limit to the number of thesis credits that may be accrued; however, no more than 13 credits of thesis may be accrued without the student being required to take additional course work at the graduate-level. Specific requirements for additional course work will be determined by the Director of the Graduate Program in Nursing and the Thesis Chair.

PART-TIME/FULL-TIME STUDY

Options are available for full-time and part-time study. Prior to being formally admitted to graduate study, students may complete up to nine credits of degree applicable course work, either UAA credit (with permission of the instructor) or transfer credit.

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 REQUIREMENTS

All students enrolled in UAA nursing programs must provide documentation of continuous current certification in Cardiopulmonary Resuscitation (CPR) for adults, infants, and children; continuous professional malpractice insurance in amounts of \$1 million/\$3 million, and evidence of satisfactory health status, including immunity to chicken pox, rubella, rubeola, and hepatitis A and B (by titer), documentation of diphtheria/tetanus immunization within the past 10 years, annual PPD skin test or health exam indicating freedom from active tuberculosis, and 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. Students are also responsible for their portion of the cost of audio-conferencing. It is recommended that students have access to a personal computer and that they gain basic skills in computerized word processing prior to entry into the nursing programs.

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 followed by periodic class meetings throughout the semester that are available via computer and 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.

GRADUATE NURSING CERTIFICATE PROGRAM

This program is designed for individuals who have previously acquired their master's degree 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 either the role of a family nurse practitioner or psychiatric mental health nurse practitioner.

The 15-29 credit graduate certificate curriculum integrates core courses with theory-based advanced practice nursing courses and clinical practice.

CERTIFICATE IN 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 speciality 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 family nurse practitioner (FNP) graduate certificate for primary care specialties was developed for nurses who are already certified in one of the primary care nurse practitioner specialties (adult, child, or women). Students who successfully complete the graduate certificate 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.

CERTIFICATE IN 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 American Nurses Credentialing Center (ANCC). This examination is given nationwide throughout the year.

ADMISSION REQUIREMENTS

See the beginning of this chapter for Admission Requirements for Graduate Certificates

Application Deadlines:

November 1	GRADUATE CERTIFICATE STUDY only
March 1	GRADUATE CERTIFICATE STUDY and/or CLINICAL SPECIALITY

Special consideration may be given to applicants with clinical expertise and a proven record of professional contributions. Such applicants must submit documentation of their expertise and contributions along with their request to the School of Nursing Admissions Committee for special consideration. To the extent that there is limited space available in the graduate certificate program, preferences may be given to residents of the State of Alaska as defined by the University's policy on residency for tuition purposes.

ADDITIONAL DEPARTMENTAL ADMISSION REQUIREMENTS

Students applying to the graduate certificate program in Nursing must also submit documentation of having met the following requirements:

1. Earned a master's degree in nursing (MN or MSN) from a school of nursing accredited by the National League for Nursing.
2. Graduate grade point average of 3.00 on a 4.00 scale.
3. Current licensure as an advanced practice nurse in the State of Alaska, concurrent with enrollment in first clinical course;
4. Must hold national certification as an advanced nurse practitioner;
5. A minimum of 500 hours of documented, supervised practicum;
6. Adequate computer skills. Students are expected to have the following basic computer skills prior to enrollment;
 - a. Basic word processing (preferably MS Word)
 - b. Sending and receiving e-mail, including e-mail with attachments
 - c. Accessing and navigating the internet/world wide web
 - d. Basic functionality of hardware, software, and operating systems

It is also recommended students secure access to local technical support. For example, this might include the technical support staff at a place of employment, a computer-wise teenager, or a point of contact at a local computer store or training center.

7. Successful completion with a grade of "C" or better of graduate-level courses in pathophysiology, pharmacology, and physical assessment. If these courses have not been completed, they must be taken concurrently with the program.

ACADEMIC PROGRESS

Students enrolled in the graduate certificate programs must maintain a 3.0 "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, 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 track may include a maximum of one "C" grade. Grades below a "C" will not be applied to graduate certificate requirements. Noncompliance with this policy will result in academic probation and possible remove from the program.

GRADUATION REQUIREMENTS

See the beginning of this chapter for Graduate Certificate University Requirements.

PROGRAM REQUIREMENTS

CERTIFICATE IN FAMILY NURSE PRACTITIONER (FNP)

1. Complete one of the following tracks (15-29 credits):

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

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

Psychiatric Mental Health Nurse Practitioner (29 credits)

NS A601	Advance 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

2. A total of 15-29 credits is required for the certificate.

CERTIFICATE IN PSYCHIATRIC 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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DIVISION OF HEALTH SCIENCES

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Diplomacy Building (DPL), Room 404, (907) 786-6565

MASTER OF PUBLIC HEALTH, PUBLIC HEALTH PRACTICE

Public health is a multidisciplinary field that strives to protect the community as a whole rather than focusing on individual patients. The emphasis in public health is typically on prevention rather than treatment after the fact. 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. The MPH or its equivalent is often a requirement of supervisory and leadership positions in public health. The MPH is generally considered the terminal degree in the practice of public health.

There is no one preferred background in order to become a student in the MPH program because the field is so interdisciplinary. Students with a background in the natural sciences, social sciences, business, health care, education, and law will feel at home in this MPH program. Typically MPH programs have two types of students: students who have recently obtained their baccalaureate degree, and mid-career students who have already built careers as health care providers, health educators, lawyers, administrators, and public health professionals in both the public and private sectors.

Mid-career students can pursue their careers with minimal disruption while working toward the MPH degree because all of the core courses are taught via distance education and/or meet on condensed class schedules. The focus on current public health practices in core areas of public health provides mid-career professionals with advanced tools to improve the health of the community in concrete ways. Moreover, an MPH degree is often essential to career advancement, a position in management, or a desired career change for mid-career professionals.

For entry-level students, the MPH is an excellent degree with which to launch a new career in public health or expand an emerging career. The field of public health offers extraordinary career possibilities in both the public and private sectors in occupational safety and health, environmental protection, food safety, health education, health planning and analysis, a variety of management positions, and much more. Finally, the MPH degree is a desirable gateway degree for additional education at the doctoral level.

This degree requires core courses in the following five areas basic to the understanding of public health: 1) environmental and occupational health, 2) health education and behavioral science, 3) health services administration, 4) epidemiology (the study of the distribution of disease in populations), and 5) biostatistics. The core also includes an exploration of Alaska-specific health issues through RD655 Circumpolar Health Issues course delivered collaboratively with University of Alaska Fairbanks, Department of Alaska Native and Rural Development. In addition to the core, the MPH program offers the student an emphasis in public health administration and planning, or the option to complete public health-related electives to build an interdisciplinary emphasis of particular interest to the student.

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 cumulative grade point average (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.

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 six (6) semester credits each academic year, beginning with the first semester of enrollment. For satisfactory academic progress, the six (6) semester credits may consist of prerequisite courses or program courses. Failure to comply with the six (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.

CANDIDACY REQUIREMENTS

See the section Advancement to Candidacy at the beginning of this chapter.

GRADUATION REQUIREMENTS

See University Requirements for Master's Degrees at the beginning of this chapter.

PROGRAM REQUIREMENTS

1. Complete the MPH core courses (29 credits):

HS A605	Public Health and Society	3
HS A610	Occupational and Environmental Health	3
HS A615	Health Services Administration	3
HS/NS A626	Principles of Epidemiology	3
HS A629	Public Health Research Tools and Methods	4
SWK/HS A628	Program Evaluation	3
HS A630	Public Health Emergencies and Disasters	3
RD 655*	Circumpolar Health Issues	3
HS A699	Public Health Thesis	4

* RD 655: *Circumpolar Health Issues* is a distance delivery course from University of Alaska Fairbanks. It is a required course in the MPH program.

2. Complete one of the following emphasis areas:
Public Health Administration and Planning (9 credits):
- | | | |
|-----------|---------------------------------------|---|
| ACCT A601 | Accounting Foundations for Executives | 3 |
| PADM A624 | Human Resources Administration | 3 |
| PADM A628 | Administration of Financial Resources | 3 |
- Interdisciplinary (9 credits):**
- Three focused public health-related elective courses at the 400- and/or 600-level with advisor approval. 9
3. A total of 38 credits are required for the degree.

FACULTY

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SCHOOL OF SOCIAL WORK

<http://socialwork.uaa.alaska.edu>

Gordon Hartlieb Hall (GHH), Room 106, (907) 786-6900

The Master of Social Work Program has as its mission education for the development of knowledge, skills, and values essential to assume multiple professional social work roles and the preparation of practitioners sensitive to diverse populations. Emphasis is placed upon the development, implementation, and evaluation of policies and programs within the framework of advanced generalist social work practice. Alaska's unique and rich multicultural populations, geographic remoteness, and frontier status allows 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 MSW Program, the program goals are to prepare Advanced Generalist Social Work practitioners:

- Who are competent in multiple practice roles across systems.
- Who are committed to the enhancement of human well-being and to the alleviation of discrimination, poverty and oppression.
- Who are guided by the values and ethical standards of the Social Work profession.
- Who will enhance the quality of service delivery.
- For a variety of fields of practice within the State of Alaska.

MSW program admission and curriculum requirements are consistent with MSW licensing requirements in the State of Alaska.

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 31 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 a professional preparation for advanced generalist social work education. All students will waive, test out, or take all courses required in the foundation curriculum of the program. Students who have previously earned a BSW degree from a CSWE accredited program and who are determined to be qualified for admission with advanced placement to the Concentration curriculum must first complete SWK A592, a preparatory four-day Social Work Summer Intensive. The

concentration curriculum is comprised of 32 credits and is required for all MSW students. The concentration sequence provides for breadth and depth in advanced generalist practice, including specific fields of practice such as mental health; children, youth and families; health and wellness over the life span; and criminal justice. All students entering the program will do so with an Official Graduate Studies Plan tailored to meet their own educational needs.

PROFESSIONAL PROGRAM FEE

A Professional Program Fee is required of all students in the MSW 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% of resident tuition, and is charged upon enrollment in MSW courses. The fee contributes directly to program support.

MASTER OF SOCIAL WORK

ADMISSION REQUIREMENTS

1. Deadline for application: January 15th. This is the only application date for the year. Admission review is performed once a year, following the January 15th deadline for application.
2. Submit UAA graduate application for admission with fee and meet requirements found on 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. A complete application will include the MSW program application form; a personal statement; three (3) letters of reference from employers, supervisors or academic faculty; a professional resume; and a sample of academic or professional writing in addition to other materials.

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 (2) university courses in the humanities (history, philosophy, languages, literature, or similar disciplines);
2. Two (2) university courses in the social sciences (political sciences, sociology, anthropology, psychology, or similar disciplines, see note below concerning human development);
3. One (1) university course in the fine arts (music, theater, art appreciation or similar disciplines);
4. One (1) university course in oral communication;
5. One (1) university course in written communication;
6. Two (2) 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 forty-five (45) semester credits or sixty-eight (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 course work 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 biopsychosocial 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 judgement of the social work faculty. Only students eligible to be licensed 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 A631B, SWK A632B, SWK A633B, SWK A634B, SWK A639B).

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 service agencies.

Field placements located outside the Anchorage/Matanuska-Susitna Valley area carry additional fees in order to help support MSW program expenses.

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 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 Integrative Seminar (SWK A635A) 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 individual research project (SWK A698).
3. Successful completion of all required academic course work specified on the Official Graduate Studies Plan, with a GPA of "3.00" or better, no course grade of lower than a "C," and no practicum course grade lower than a "B" (SWK A631B, SWK A632B, SWK A633B, SWK A634B, SWK A639B).

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 2-7 credits each semester: fall, spring, and summer, for two to four years dependent upon prior academic preparation. A copy of the part-time program plan is available from the School of Social Work.

1. Foundation Curriculum: Complete, test-out, or waive the following required courses in the foundation sequence:

Fall - Year One

SWK A606	Social Welfare: History and Contemporary Programs	3
SWK A630	Practice Skills Lab	1
SWK A631A	Social Work Practice I	3
SWK A631B	Generalist Practicum I*	3
SWK A642	Human Behavior in the Social Environment	3
SWK A643	Human Diversity in Social Work Practice	3

Spring - Year One

SWK A607	Contemporary Social Welfare Policy and Change	3
SWK A624	Social Work Research	3
SWK A632A	Social Work Practice II	3
SWK A632B	Generalist Practicum II*	3
	Graduate-level Social Work elective.**	3

2. Concentration Curriculum:

Fall - Year Two

SWK A608	Social Policy for Advanced Generalist Practice	3
SWK A625	Social Work Research Lab	1
SWK/HS A628	Program Evaluation	3
SWK A633A	Social Work Practice III: Direct Practice	3
SWK A633B	Advanced Generalist Practicum III*	3
SWK A634A	Social Work Practice IV: Indirect Practice	3
	Graduate-level Social Work elective.**	3

Spring - Year Two

SWK A634B	Advanced Generalist Practicum IV*	4
SWK A635	Advanced Generalist Integrative Seminar	3
SWK A698	Individual Research Project	3
	Graduate-level Social Work elective.**	3

3. A minimum of 32 credits is required for the two year Master of Social Work Degree.

* Course number and sequencing will vary in the case of distance field placement.

** A total of 6 credits of electives to pursue professional emphasis may be selected from outside the School of Social Work offerings. Only 400 and 600 level courses approved by the MSW Faculty Advisor and Program Coordinator may count toward graduate program requirements. Courses of the 500 level are not applicable toward the MSW degree requirements. No more than three (3) credits at the 400 level may be counted toward the MSW degree requirements. Contact the School of Social Work for a full list of available electives and scheduled course offerings.

RESEARCH PROJECT

All students are required to complete an independent research project (SWK A698) in the concentration year of study. The project is an opportunity for the student to conduct an original research project under the guidance of a faculty member. Students attend a weekly seminar to facilitate the process. The research process includes formulating the research question, conducting a literature review, designing and conducting the study, analyzing the data, writing the research report, and disseminating the results to faculty, fellow students and the practice community. Students are expected to comply with UAA policies and procedures for the protection of human subjects.

FACULTY

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COMMUNITY AND TECHNICAL COLLEGE

MASTER OF SCIENCE, VOCATIONAL EDUCATION

University Center (UC), Suite 130, (907) 786-6423

Note: Admission to the MSVE program has been suspended. Please contact the department for information.

The Master of Science in Vocational Education program at UAA exists to provide graduate instruction for educators specializing in vocational education at the secondary and postsecondary level, vocational administrators, and industry trainers. Department faculty and administrative offices are located at UAA in the Community and Technical College, but instruction is delivered across the State through the use of video- and audio-conferencing, the University of Alaska Computer Network, and traveling instructional faculty who deliver on-site instruction. To meet the needs of distance education students a portion of the degree program offers the option of completing Performance Based Teacher Education (PBTE) modules or web based courses. Each student's program is jointly designed by the student and a faculty advisor.

ADMISSION REQUIREMENTS

See the beginning of this chapter for Admission Requirements for Master's Degrees.

GRADUATION REQUIREMENTS

1. See the beginning of this chapter for University Requirements for Master's Degrees.
2. An official program developed jointly between the student and faculty advisor must be approved before completion of 12 credits of course work.
3. Only 9 credits may be at the 400-level.
4. Completion of a minimum of 36 credits of approved course work in the program.
5. Successfully complete VE A698: Individual Research (project or thesis) with committee approval.
6. Once the final project or thesis is approved, students must enroll in at least 3 credits of VE A698, Individual Research, and maintain continuous enrollment every semester (except summer) until project or thesis is completed.
7. Pass a comprehensive written examination based on the student's program of study.

DEGREE REQUIREMENTS

1. Technical Competency
Students must demonstrate technical competency appropriate to vocational education using one of the following methods:
 - A. An occupational credential that documents at least one year's experience beyond the apprentice level. Examples include journey-level union card, certified dental assistant, etc.
 - B. Three or more years of documented experience beyond the apprentice level in a field of employment such as automobile mechanics, building contracting, accounting, or culinary arts.
 - C. An associate degree in a vocational area.

- D. At least 30 credits of course work of subject matter corresponding to a major. Up to 9 credits of upper-division course work may be applied toward the Master of Science degree.
- E. A combination of academic and employment experience with a minimum of 30 credits in a vocational area and two years of successful work experience.
2. Computer Competency
Students must demonstrate computer competency appropriate to vocational education using one of the following methods:
- A. A 3-credit or equivalent course using one or more of the following applications: word processing, spreadsheets, databases, or communications, or an introductory course in data processing or microcomputers.
- B. Work-related experience in computer competency as approved by the student's graduate advisor.
- C. Self-initiated computer competency as approved by the student's graduate advisor.

PROGRAM REQUIREMENTS

1. Complete the Vocational Education core courses (18 credits):
- | | | |
|---------|---|-----|
| ED A626 | Technology in Teaching and Learning | 3 |
| VE A611 | Philosophical Foundations of Vocational Education | 3* |
| VE A622 | Organization and Administration of Vocational Education | 3 |
| VE A633 | Current Issues in Vocational Education | 3 |
| VE A643 | Methods of Instruction in Vocational Education (3) | 3** |
| | or | |
| VE A644 | Improving Instruction in Vocational Education (3) | |
| VE A655 | Curriculum Development in Vocational Education | 3 |

**If credit was earned for VE A411, students must substitute a three credit, VE 600-level course approved by the advisor for VE A611.*

***VE A643 is recommended if an educational methods course has not been completed.*

2. Complete the research component (a minimum of 6 credits):
- | | | |
|---------|-----------------------------------|---|
| ED A627 | Educational Research | 3 |
| VE A698 | Individual Research (1-6 credits) | 3 |
3. Complete 12 credits of electives jointly selected with the graduate advisor. Electives may be in a technical area. Only six credits of Performance Based Teacher Education (PBTE) modules and 6 credits of VE A690 may be used in partial fulfillment of this requirement. 12
4. A total of 36 credits is required for the degree.

SCHOOL OF ENGINEERING

The School of Engineering offers graduate degrees in Arctic Engineering, Civil Engineering, Engineering Management, Science Management, Environmental Quality Engineering and Environmental Quality Science. The four 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 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. A lecture course may, with the approval of the student's graduate committee, be substituted for the project. For this option, students must have completed the equivalent of a master's research project.

ARCTIC ENGINEERING

www.engr.uaa.alaska.edu/ae/
Engineering Building (ENGR), Room 201, (907) 786-1900

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 climactic, geological and logistical conditions of the Arctic and sub-Arctic require knowledge and techniques not usually covered in the normal engineering courses. 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.

The Arctic Engineering program requires a set of core courses that will prepare an engineer to understand and adapt to problems of cold regions. The program also allows students to study electives and advanced courses in their particular area of interest. Research activities carried out by faculty associated with this program can provide opportunities for project papers dealing with the most current Arctic knowledge.

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.

MASTER OF SCIENCE, ARCTIC ENGINEERING

The Masters of Arctic Engineering degree curriculum is designed to provide graduate education via the World Wide Web for engineers who must deal with the unique challenge of design, construction, and operations in the cold regions of the world. Special problems created by the climactic, geological and logistical conditions of the Arctic and sub-Arctic require knowledge and techniques that are rarely presented in conventional engineering courses. A thorough knowledge of heat transfer processes and properties of frozen ground and frozen water is basic to most engineering activities in the cold regions. The subject areas of hydraulics, hydrology, materials and utility operations are also uniquely affected by Arctic considerations.

The Arctic Engineering program 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 specialized 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 composed of at least three members, the Chair and one other member of which must be UAA Arctic Engineering faculty, is appointed to guide each admitted student to degree completion. Additional program guidance is available via the URL referenced above

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 cold regions physical conditions,
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, roof, 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 2.5. 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.

MAJOR REQUIREMENTS

1. Candidates must complete the following core courses (9 credits):

CE A603	Arctic Engineering (3)	1-3
CE A681	Frozen Ground Engineering	3
ME A685	Arctic Heat and Mass Transfer	3
2. Candidates must also complete at least 3 additional courses (9 credits) from the following Arctic Engineering program elective courses:

CE A682	Ice Engineering (3)
CE A683	Arctic Hydrology and Hydraulic Engineering (3)
CE A684	Arctic Utility Distributions
ME A687	Arctic Materials Engineering (3)
CE A688	Snow 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 course work 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 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

www.engr.uaa.alaska.edu

Engineering Building (ENGR), Room 201, (907) 786-1900

Engineering embraces the wide range of cultural and professional subjects having to do with the planning, design, and construction of works necessary for civilization. Civil Engineering in particular deals with environmental control; bridges, buildings, dams, and harbor facilities; water resource development and waste disposal; water power, irrigation works, and drainage; air, water, highway, and railway transportation; construction and management; topographic surveying and geodesy; city management and development planning.

Graduate students should enter one of two programs: those whose goal is broad professional practice will ordinarily choose the curriculum leading to the Master of Civil Engineering degree; those whose interests or background favor a specialized program with emphasis on research and/or advanced specialized study will ordinarily select the Master of Science in Civil Engineering degree.

A degree program can include courses in Environmental Quality Engineering, Engineering Management, and other areas in addition to the Civil Engineering courses.

MASTER OF SCIENCE, CIVIL ENGINEERING

ADMISSION REQUIREMENTS

See the beginning of this chapter for Admission Requirements for Master's Degrees. All students must hold a baccalaureate degree in an engineering discipline.

GRADUATION REQUIREMENTS

See the beginning of this chapter for University Requirements for Master's Degrees.

PROGRAM REQUIREMENTS

Complete 30 credits of course work approved by the student's graduate committee, of which 6 to 12 credits will be thesis (CE A699).

MASTER OF CIVIL ENGINEERING

ADMISSION REQUIREMENTS

See the beginning of this chapter for Admission Requirements for Master's Degrees. All students must hold a baccalaureate degree in an engineering discipline.

GRADUATION REQUIREMENTS

See the beginning of this chapter for University Requirements for Master's Degrees.

PROGRAM REQUIREMENTS

Complete 30 credits of course work beyond the Bachelor of Science degree. This shall include 3 credits of a Civil Engineering Project (CE A686). All course work must be approved by the student's graduate committee.

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ENGINEERING MANAGEMENT AND SCIENCE MANAGEMENT

www.engr.uaa.alaska.edu/esm

Engineering Building (ENGR), Room 201, (907) 786-1900

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

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.

Students must formally apply for admission to the program. No more than 9 semester credits may be taken before applying for admission.

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.

Students who have not successfully completed an engineering economy course as undergraduates or in other graduate work must include either ESM A605 or ESM A606 in their academic programs.

PROGRAM REQUIREMENTS

Note: 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 course work 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 Area requirements (21 credits):

Management Area (9 credits minimum):

ESM A601	Engineers in Organizations	3
Choose one course from the following:		3
ESM A609	Project Management (3)	
ESM/BA A617	Technology Management (3)	
Choose one course from the following:		3
ESM A608	Legal Environment for Engineering Management (3)	
ESM A609	Project Management (3)	
ESM A613	Management of Technical People (3)	
ESM/BA A617	Technology Management (3)	
ESM/BA A623	Total Quality Management (3)	
ESM/BA A625	Marketing of Business Products and Services (3)	

Fiscal Area (6 credits minimum):

Complete two of the following courses:

ESM A605	Engineering Economy (3)
ESM A606	Advanced Engineering Economy (3)
ESM A610	Cost Estimating (3)

6

Quantitative Area (6 credits minimum):

Choose one course from the following:

ESM A620	Statistics for ESM (3)
ESM A621	Operations Research (3)

3

Choose one course from the following:

ESM/BA A619	Computer Simulation of Systems (3)
ESM A620	Statistics for ESM (3)
ESM A621	Operations Research (3)
ESM A622	Management Decisions Under Uncertainty (3)

3

2. To register for ESM A684 or ESM A699 students must have a 3.0 GPA or better in courses listed on their academic program plans:

Non-Thesis Option.

Complete ESM A684 and 6 credits of electives in the student's technical specialty and/or additional courses in A, B, or C above. Electives must have the approval of the department and may include advanced courses in computer science.

Thesis Option.

Complete 6-9 credits of ESM A699 and 0-3 credits of electives in the student's technical specialty and/or additional courses in A, B or C above. Electives must have the approval of the department and may include advanced courses in computer science.

3. A total of 30 credits is required for the degree.

Questions:

School of Engineering	Jang W. Ra, Ph.D (Chair)
University of Alaska Anchorage	907-786-1862
3211 Providence Drive	
Anchorage, AK 99508	
(907) 786-1900	

FACULTY

Jang Ra, Professor, Chair, AFJWR@uaa.alaska.edu

Herbert Schroeder, Associate Professor, AFHPS@uaa.alaska.edu

ENVIRONMENTAL QUALITY ENGINEERING AND ENVIRONMENTAL QUALITY SCIENCE

www.engr.uaa.alaska.edu

Engineering Building (ENGR), Room 201, (907) 786-1900

The Environmental Quality Engineering curriculum is designed for graduate engineers and scientists who wish to pursue a career in the areas of water supply, treatment, and distribution; waste treatment; stream pollution; air pollution; and solid waste management.

Consideration is given for broad study of the environment, prevention and abatement of quality deterioration, and solutions to environmental problems.

Graduates will be prepared to hold positions in federal, state, and municipal agencies as well as in consulting engineering offices. The Environmental Quality Engineering degree requires a baccalaureate degree in engineering. For students having non-engineering degrees, an interdisciplinary program is available leading to the Master of Science in Environmental Quality Science.

MASTER OF SCIENCE, ENVIRONMENTAL QUALITY ENGINEERING

MASTER OF SCIENCE, ENVIRONMENTAL QUALITY SCIENCE

ADMISSION REQUIREMENTS

See the beginning of this chapter for Admission Requirements for Master's Degrees. Students who are working toward the Master of Science in Environmental Quality Engineering must have a baccalaureate degree in an engineering discipline.

GRADUATION REQUIREMENTS

See the beginning of this chapter for University Requirements for Master's Degrees.

PROGRAM REQUIREMENTS

- Complete 18 credits from the following required courses:

EQE A601	Aquatic Process Chemistry	3
EQE A602	Water Quality Management	3
EQE A603	Solid Waste Management (3)	3
	or	
EQE A609	Measure and Control of Air Pollution (3)	
EQE A604	Environmental Quality Evaluation	3
EQE A605	Chemical and Physical Water and Wastewater Treatment Processes	3
EQE A606	Biological Treatment Processes	3
- Students working toward the MS in EQE or EQS may choose one of the following options. All electives must be approved by the student's graduate committee. 12

Thesis Option:
Thesis (6)
Electives (6)

Non-Thesis Option:
Special Project (3)
Electives (9)
- A total of 30 credits is required for the degree.

FACULTY

John Olofsson, Associate Professor, AFJAO@uaa.alaska.edu

Craig Woolard, Associate Professor, AFRCRW@uaa.alaska.edu

PROJECT MANAGEMENT

Engineering Building (ENGR), Room 201, (907) 786-1900

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 (Engineering and Science) 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 Masters 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 students first semester.

As a prerequisite for PM A685 registration students must have a cumulative 3.0 GPA or better in courses listed on their academic program plans.

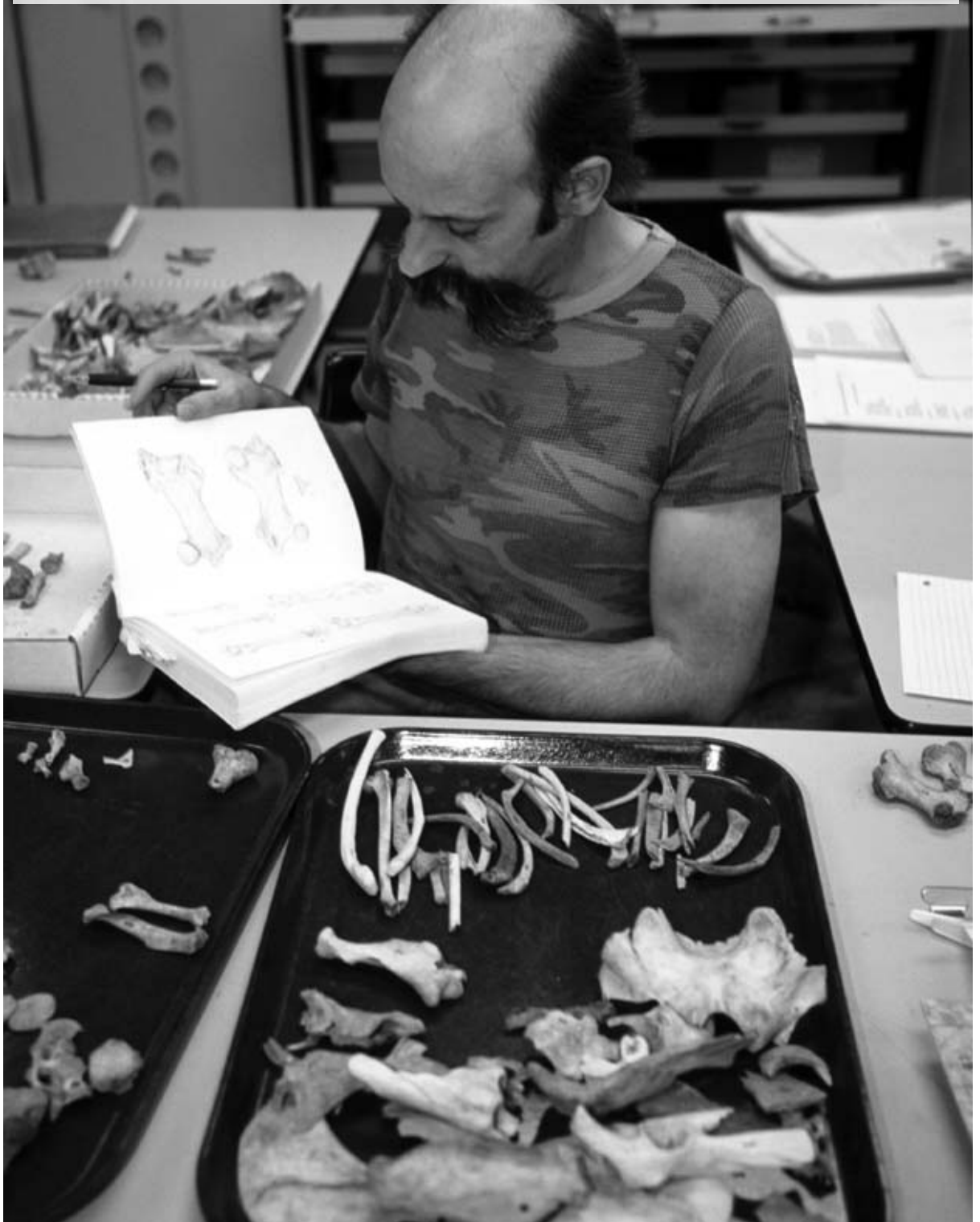
2. A total of 33 credits is required for the degree

FACULTY

Jang Ra, Professor,Chair, AFJWR@uaa.alaska.edu

CHAPTER 12

COURSE DESCRIPTIONS



ACCOUNTING - ACCT

*Offered through the College of Business & Public Policy
Business Education Building (BEB), Room 309, 786-4100
www.cbpp.uaa.alaska.edu*

Students taking any ACCT, BA, CIS, ECON, 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 annotated. Does not apply to Eagle River.

ACCT A051 Recordkeeping for Small Business 1 CR

Contact Hours: 1 + 0

Offered only at Matanuska-Susitna College.

Special Note: Does not satisfy any degree requirements even as an elective.

Provides an overview of what a bookkeeper does and the role they provide to a small business. Includes basic accounting and bookkeeping practices in reconciliation 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 equivalent Math Placement Test.

Special Note: ACCT A101 and ACCT A102 will satisfy requirement for ACCT A201. AAS accounting majors must take ACCT A101 and ACCT A102. Offered Fall and Spring Semesters.

First semester principles of accounting. Introduces concepts and procedures for financial accounting. Emphasis on accounting cycle, recording, summarizing, and interpreting accounting data through presentation of formal financial statements.

ACCT A102 Principles of Financial Accounting II 3 CR

Contact Hours: 3 + 0

Prerequisites: ACCT A101.

Special Note: ACCT A101 and ACCT A102 will satisfy requirement for ACCT A201. AAS accounting majors must take ACCT A101 and ACCT A102. Offered Fall and Spring Semesters.

Second semester principles of accounting. Includes long-term debts and investments, analysis and preparation of cash flow statement.

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 A121 Bookkeeping for Business II 3 CR

Contact Hours: 3 + 0

Prerequisites: ACCT A120.

Special Note: May be offered as either classroom or open-entry, individualized course.

Second semester college bookkeeping. Introduces bookkeeping concepts and procedures for the financial accounting for corporations with a general coverage of payroll accounting, special journals, voucher system, petty cash system, inventory bookkeeping procedures, uncollectible accounts receivable, plant assets and depreciation, notes and interest, and accrued items. Coverage of financial bookkeeping as related to the merchandising firm is used as an environment for bookkeeping topics.

ACCT A201 Principles of Financial Accounting 3 CR

Contact Hours: 3 + 0

Registration Restrictions: MATH A105 or equivalent Math Placement Test.

Special Note: ACCT A101 and ACCT A102 will satisfy requirement for ACCT A201. AAS accounting majors must take ACCT A101 and ACCT A102. Offered Fall and Spring Semesters.

Introduction to financial accounting concepts and principles. Emphasis on the accounting cycle, recording and summarizing accounting data through the presentation of formal financial statements.

ACCT A202 Principles of Managerial Accounting 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 and CIS A110.

Special Note: Offered Fall and Spring Semesters.

Studies the uses of accounting data internally by managers in directing the affairs of business and nonbusiness activities. Planning and control techniques include budgeting, product costing, break-even analysis, and relevant costing decision analysis.

ACCT A210 Income Tax Preparation 3 CR

Contact Hours: 3 + 0

Prerequisites: [ACCT A101 and ACCT A102] or ACCT A201.

Special Note: ACCT A210 is not a prerequisite for ACCT A310 nor is it a substitute for ACCT A310.

Special Note: Offered Fall Semesters.

Elements of federal income taxation applied with an individual emphasis, including preparation of forms.

ACCT A222 Introduction to Computers and Accounting 3 CR

Contact Hours: 3 + 0

Prerequisites: [ACCT A101 and ACCT A102] or ACCT A201 and CIS A110.

Special Fees.

Special Note: Offered Fall Semesters.

Identifies necessary accounting controls in a computerized environment; illustrates conversion of manual to computerized accounting system; demonstrates processing of accounting data on a computer.

ACCT A225 Accounting for Payroll, Receivables and Payables 3 CR

Contact Hours: 3 + 0

Prerequisites: [ACCT A101 and ACCT A102] or ACCT A201 and CIS A110.

Special Fees.

Special Note: Offered Spring Semesters.

Considers in detail, special accounting problems associated with processing and reporting on payroll, receivables and payables cycles. Covers manual and computerized applications.

ACCT A230 Financial Statement Preparation and Presentation 3 CR

Contact Hours: 3 + 0

Prerequisites: [ACCT A101 and ACCT A102] or ACCT A201.

Special Note: Offered Spring Semesters.

Emphasizes preparation and analysis of work papers 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 A301 Intermediate Accounting I 3 CR

Contact Hours: 3 + 0

Prerequisites: ACCT A202.

Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Special Note: Offered Fall and Spring Semesters.

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.

Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Special Note: Offered Fall and Spring Semesters.

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.

Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Special Fees.

Special Note: Offered Fall and Spring Semesters.

The federal income tax law as it applies to individuals, sole proprietors, and property transactions. Emphasizes research, theory and tax planning.

ACCT A316 Accounting Information Systems 3 CR

Contact Hours: 3 + 0

Prerequisites: ACCT A202.

Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Special Note: Offered Fall and Spring Semesters.

A study of the role of the accounting information system within the organization including the components of personnel, hardware, software and data. Exposure to the design and maintenance of effective systems for internal and external information needs. Includes coverage of concepts of internal control, EDP auditing and emerging technology. Includes hands-on experience with a general accounting software package.

ACCT A342	Managerial Cost Accounting	3 CR
Contact Hours: 3 + 0		
Prerequisites: ACCT A202.		
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.		
Special Note: Offered Fall and Spring Semesters.		
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 I	3 CR
Contact Hours: 3 + 0		
Prerequisites: ACCT A302.		
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.		
Special Note: Offered Spring Semesters.		
A study of accounting for expanded business entities. Includes accounting of joint ventures, partnerships, branches and parent-subsidiary consolidated statements.		
ACCT A410	Advanced Income Tax	3 CR
Contact Hours: 3 + 0		
Prerequisites: ACCT A302 and ACCT A310.		
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.		
Special Fees.		
Special Note: Offered Fall Semesters.		
The study of the federal income tax law as it applies to partnerships and corporations. Emphasizes research, tax planning, and compliance procedures.		
ACCT A411	Estate and Trust Tax Law	3 CR
Contact Hours: 3 + 0		
Prerequisites: ACCT A302 and ACCT A310.		
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.		
Special Note: Offered as Demand Warrants.		
The study of transfer and income taxes involved with estate and trusts. Emphasizes research and tax planning.		
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.		
Accounting and financial reporting for governmental and non-profit entities, including municipalities, states, the federal government, schools, hospitals, universities, and health and welfare organizations. The fund structure provides a foundation for understanding these entities.		
ACCT A452	Auditing	3 CR
Contact Hours: 3 + 0		
Prerequisites: ACCT A302 and ACCT A316.		
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.		
Special Note: Offered Fall and Spring Semesters.		
Study of professional standards applicable to independent auditor's examination of financial statements and related expression(s) of opinion.		
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 Spring Semesters.		
Covers auditing techniques (gathering and evaluating evidence) within a company, or governmental unit, to evaluate internal controls, compliance with policy and operational efficiency.		
ACCT A454	Accounting Internship	3 CR
Contact Hours: 3 + 0		
Registration Restrictions: GPA 2.5 or better in major, GPA 2.5 or better overall.		
Work experience in an approved position with supervision and training in various phases of accounting.		
ACCT A601	Accounting Foundations for Executives	3 CR
Contact Hours: 3 + 0		
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 A650	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.		
ACCT A689	Legal Environment for Professional Accountants	3 CR
Contact Hours: 3 + 0		
Special Note: Offered as Demand Warrants.		
Focuses on developing students' knowledge of the legal implications of business transactions, particularly as they relate to accounting and auditing. Emphasizes the CPA and the law, business organizations, contracts, debtor-creditor relationships, government regulation of business, uniform commercial code, and property.		

AUTOMOTIVE & DIESEL TECHNOLOGY - ADT

*Offered through the Community & Technical College
Auto & Diesel Technology Building (ADT), Room 207, 786-1461
<http://ctc.uaa.alaska.edu/>*

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 102.		
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 A170	General Motors ASEP I	9 CR
Contact Hours: 6 + 6 Prerequisites: ASSET Reading Skills with score of 43 and ASSET Writing Skills with score of 40 and ASSET Numerical Skills with score of 43 and [ADT A102 or (ADT A102 or concurrent enrollment)]. Registration Restrictions: Formal acceptance into the UAA General Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealership. ADT A102, or concurrent enrollment, required. Special Fees. Special Note: Student is expected to provide the basic hand tools needed to participate in lab activities. Covers electrical and electronics theory, use of electrical schematics and testing tools, diagnosis and repair of automotive electrical systems, batteries, charging systems and cranking systems used on late model General Motors (GM) vehicles. Emphasizes GM training courses as required by the International Association of GM Automotive Service Education Programs.		
ADT A171	General Motors ASEP II	12 CR
Contact Hours: 8 + 8 Prerequisites: ADT A170. Registration Restrictions: Acceptance into the UAA General Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealer. Special Fees. Special Note: Student is expected to provide the basic hand tools needed to participate in lab activities. Covers design, construction, diagnosis, and repair procedures for heating, ventilation, and air conditioning systems, sound systems and supplemental inflatable restraint systems used in late model GM vehicles. Emphasizes related GM training courses as required by the International Association of GM Automotive Service Education Programs.		

ADT A195	Automotive Practicum I	1-6 CR
Contact Hours: 0 + 5-3 Registration Restrictions: At least 12 credits of advisor approved ADT program technical courses, and a valid Alaska drivers 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-Transcripted 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 131. 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 Power 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.		
ADT A267	Heavy Duty Fuel Systems	4 CR
Contact Hours: 2 + 4 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, diagnosis, repair, and service procedures of fuel systems on engines used in the medium and heavy duty diesel industry.		
ADT A268	Hydraulics and Pneumatics	4 CR
Contact Hours: 2 + 4 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. Presents design, operation, diagnosis, disassembly, repair, and service procedures of hydraulic and pneumatic systems on mid to heavy duty equipment.		

ADT A269 Contact Hours: 2 + 4 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. Presents design, operation, diagnosis, disassembly, repair, and service procedures of transmissions and drive trains on medium and heavy duty equipment.	Heavy Duty Drive Trains	4 CR
ADT A270 Contact Hours: 8 + 8 Prerequisites: ADT A170. Registration Restrictions: Acceptance into the UAA General Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealer. Special Fees. Special Note: Student is expected to provide the basic hand tools needed to participate in lab activities. Covers foundation, antilock brake systems, and suspension on current General Motors (GM) vehicles. Includes diagnosis and repair of automotive braking systems, suspensions, and wheel alignment on late model GM vehicles. Emphasizes GM training courses as required by the International Association of GM Automotive Service Education Programs.	General Motors ASEP III	12 CR
ADT A271 Contact Hours: 8 + 8 Prerequisites: ADT A170. Registration Restrictions: Acceptance into the UAA General Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealer. Special Fees. Special Note: Student is expected to provide the basic hand tools needed to participate in lab activities. Covers fuel, ignition and emission control systems, and computerized engine control systems used on late model GM vehicles. Introduces characteristics of fuels used in the modern internal combustion engine, use of vehicle scanners, and GM computer-based automotive information and specification retrieval systems. Emphasizes GM training courses as required by the International Association of GM Automotive Service Education Programs.	General Motors ASEP IV	12 CR
ADT A272 Contact Hours: 8 + 8 Prerequisites: ADT A170. Registration Restrictions: Acceptance into the UAA General Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealer. Special Fees. Special Note: Student is expected to provide the basic hand tools needed to participate in lab activities. Covers General Motors (GM) power trains, including clutches, automatic and manual transmissions, automatic and manual transaxles, four wheel drive systems and rear wheel drive systems. Includes fundamentals of vibration correction. Emphasizes specific related GM training courses as required by the International Association of GM Automotive Service Education Programs.	General Motors ASEP V	12 CR
ADT A295 Contact Hours: 0 + 17 Prerequisites: ADT A195. Registration Restrictions: Department approval, and valid Alaska driver's license. Provides supervised workplace experience in industry settings. Integrates advanced level knowledge and practice to achieve skill competencies.	Automotive Practicum II	3 CR

ARCHITECTURAL & ENGINEERING TECHNOLOGY - AET

*Offered through the Community & Technical College
University Center (UC) room 130, 786-6423
<http://ctc.uaa.alaska.edu/>*

AET A100 Contact Hours: 1 + 2 Offered only at Matanuska-Susitna College. Special Note: For non-majors only. Basic course in college drafting, designed to provide students with the fundamental skills and knowledge necessary to communicate using language of industry.	Fundamentals of Drafting	3 CR
AET A101 Contact Hours: 2 + 4 Crosslisted with: CM 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.	Fundamentals of CADD for Building Construction	4 CR

AET A102 Contact Hours: 3 + 0 Crosslisted with: CM A102. Special Fees. Introduces basic knowledge of building materials, written specifications, techniques, and systems. Outlines structural systems, construction processes, and assemblies. Includes a field project involving student team research of current Alaskan building type.	Methods of Building Construction	3 CR
AET A111 Contact Hours: 2 + 3 Prerequisites: AET A181. 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.	Civil Drafting	3 CR
AET A121 Contact Hours: 2 + 3 Prerequisites: AET A181. Special Fees. Introduces technical skills needed by architectural drafters and technicians to work with architects. Includes office practices, staff relationships, and architectural drawing production. Develops computer-aided drafting skills in architectural drawing symbols, conventions, dimensioning systems, reference systems, sheet organization, code requirements, and research methods for detailing light commercial buildings.	Architectural Drafting	3 CR
AET A123 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.	Codes and Standards	3 CR
AET A131 Contact Hours: 2 + 3 Prerequisites: AET A181. Special Fees. Introduces technical skills needed by structural drafters and technicians to work with structural engineers. Includes office practices, staff relationships, and structural drawing production. Develops computer-aided drafting skills in symbols, conventions, dimensioning systems, sheet organizations, code analysis and research methods for steel, wood, and reinforced concrete buildings.	Structural Drafting	3 CR
AET A142 Contact Hours: 3 + 2 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 the occupants. Emphasizes design criteria, code requirements, and interpreting construction documents.	Mechanical and Electrical Technology	4 CR
AET A143 Contact Hours: 2 + 3 Prerequisites: AET A101 and AET A102. Special Fees. Introduces technical analysis, theory, code requirements, and CADD techniques to produce construction drawings for mechanical and electrical building systems. Includes drafting conventions, drawing symbols, terminology, and research methods for residential and commercial building systems and equipment.	Mechanical and Electrical Drafting	3 CR
AET A161 Contact Hours: 1 + 2 Registration Restrictions: High school reading and writing skills and math including addition and subtraction of fractions and decimals. Special Fees. Special Note: Does not meet AET certificate or degree requirements. Introduction to skills and techniques needed to correctly interpret working drawings used in construction field.	Blueprint Reading for the Construction Industry	1 CR

AET A162	Cost Estimating for General Contractors	2 CR
Contact Hours: 1 + 2 Prerequisites: AET A161. Registration Restrictions: High school math, reading, and writing skills, and field experience. Special Fees. Special Note: Does not meet AET certificate or degree requirements. For general contractors, subcontractors, and tradespeople. Introduction to skills and techniques needed to produce cost-effective bid proposals for residential and light commercial building projects. Emphasis on quantity/material take-offs, bid proposal forms, and scheduling.		
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 and AET A102. 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, surface modeling, and solid modeling.		
AET A201	Specifications Practice and Development	4 CR
Contact Hours: 4 + 0 Prerequisites: AET A101 and AET A102. Special Fees. Investigates the building Project Manual. Examines project delivery systems, contract agreements, standard contract general and supplementary conditions, and written technical specifications. Includes fundamentals of specification development, Construction Specifications Institute Masterformat, SectionFormat, and contract administration concepts.		
AET A213	Civil Technology	4 CR
Contact Hours: 2 + 4 Prerequisites: AET A101 and AET A102. Crosslisted with: CM A213. Special Fees. Outlines elements of civil design, including soils and soil mechanics, foundations, roads, and utilities using local, state, and Federal regulations. Students will also be introduced to elements of construction surveying.		
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 such natural forces as gravity, wind, snow, and earthquakes. Covers connection detailing and code requirements for wood, steel, and reinforced concrete.		
AET A282	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 building construction. Includes 3-D space, shading, rendering, and animation techniques.		
AET A290	Architectural and Engineering Technology Selected Topics (Topic)	1-6 CR
Contact Hours: 0-6 + 0-12 Registration Restrictions: Department Permission required. Grade Mode: Pass/No Pass. Special Fees. 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 + 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 A381	Geographic Information Systems: Technology and Applications	4 CR
Contact Hours: 3 + 2 Prerequisites: CS A202 and MATH A200 and AS A252. Special Fees. Current geographic information systems theoretical/technical basis and application of commercially available GIS computer software and hardware, diversity in GIS application and approaches, reliability and validity of data systems.		
AET A490	Architectural and Engineering Technology Selected Topics (Topic)	1-6 CR
Contact Hours: 0-6 + 0-12 Registration Restrictions: Department approval required. Grade Mode: Pass/No Pass. 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.		

AGRICULTURE - AGRI

Offered through Matanuska-Susitna College
P.O. Box 2889, Palmer, Alaska, 99645, (907) 745-9774
www.matsu.alaska.edu

AGRI A113	Practical Horsemanship I	3 CR
Contact Hours: 3 + 0 Offered only at Matanuska-Susitna College. Basic health, feeding, and physical care. Coupled responsibilities of horse ownership. Fundamental behavior and training for the beginner.		
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 + 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 A213	Practical Horsemanship II	3 CR
Contact Hours: 3 + 0 Offered only at Matanuska-Susitna College. Introduces fundamentals of training and care of light horses. Covers theories of horse behavior as related to training and performance. Emphasizes health and care of horses in Alaska's environment. Intended to be academic but practical course with hands-on training.		

AGRI A215 Basic Horse Behavior and Training II 3 CR
 Contact Hours: 3 + 0
 Offered only at Matanuska-Susitna College.
 Focuses on practical psychology of riding, and introduces basic principles and methods of training the performance horse from mounting of the horse to training skills under saddle. Includes the actual starting and training of green horses.

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.

AEROSPACE SCIENCE - AIRS

*Offered through the Community and Technical College, Aviation Complex, 2811 Merrill Field Dr., Room 116, 264-7466
<http://afrotc.uaa.alaska.edu/>*

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 for 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
 Grade Mode: Pass/No Pass.
 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 3 CR
 Contact Hours: 3 + 0
 Prerequisites: AIRS A202
 Special Note: This is a mandatory course for students seeking an Air Force officer's commission.
 Analyzes fundamental concepts of leadership and management to include Total Quality Management principles, supervision skills, and mentoring techniques.

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 concepts of military professionalism and officership. Analyzes the application of military ethics to various combat and non-combat scenarios. Covers officer evaluation, promotion, and assignment systems.

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.

ALASKA NATIVE STUDIES - AKNS

*Offered through the College of Arts and Sciences
 Social Sciences Building (SSB), Room 378, 786-6135
<http://native.uaa.alaska.edu/>*

AKNS A101 Alaska Native Languages I 4 CR
 Contact Hours: 4 + 0
 Course Attributes: UAA GER Humanities Requirement.
 Special Note: May be repeated for credit if language varies. Languages currently available: Central Yup'ik, Siberian Yup'ik, Tlingit, Inupiaq, and Haida - eyak.

Introductory course to a selected Alaska Native language for beginners with no, or little, prior knowledge of the specific language. Aural/oral skills are stressed and TPR (Total Physical Response) and/or other communicative approaches used. Emphasis is on everyday vocabulary, structure, and phonetics. A brief history of Alaska Native languages is included.

AKNS A102 Alaska Native Languages II 4 CR
 Contact Hours: 4 + 0
 Prerequisites: AKNS A101.
 Stacked with: AKNS A109.
 Course Attributes: UAA GER Humanities Requirement.
 Special Note: Course may be repeated for credit if language varies. Native speaking students can gain entrance to the course with the instructor's signature.
 Continuing study of Language and Culture for those wishing to learn the specific language being offered. TPR (Total Physical Response) method used whereby students learn comprehension and use of language in everyday situations. Some reading and writing included.

AKNS A109 Alaska Native Language Orthography 4 CR
 Contact Hours: 4 + 0
 Prerequisites: AKNS A101.
 Stacked with: AKNS A102.
 Special Fees.
 Special Note: Course may be repeated for credit if language varies. It is assumed that students have the appropriate level of language proficiency to master this course. Students should discuss with the instructor expectations and demands of this course prior to registering.

An introduction to reading and writing a selected Alaska Native language for students with Native or near-Native oral proficiency in the respective language. Students are introduced to alphabet and phonetic classification, to dialect differences, and to the history of the written language. Students practice reading and writing the language.

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.

Beginning course in Alaska Native dance techniques involving movement, sounds/vocal, music, and storytelling. Historical, cultural, and aesthetic context of dances stressed throughout class.

AKNS A201	Native Perspectives	3 CR
Contact Hours: 3 + 0 Course Attributes: UAA GER Humanities Requirement. Special Fees. Introduction to Alaska Native perspectives on time, philosophy and spirituality, communication, justice, and their ecology, and their relationship to contemporary issues. Includes overviews of Alaska Native peoples and of language groups necessary to an understanding of the diversity of Native perspectives.		
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. 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.		
AKNS A346	Alaska Native Politics	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Upper-division standing. Crosslisted with: PS A346. Special Note: May be applied to the Alaska Culture and History requirements for State of Alaska teacher recertification. Politics and governments of Alaska Natives. Focuses on the history of Native/non-Native relations, contemporary issues and possibilities, and comparative case studies in Canada, Siberia, Greenland, and Scandinavia.		
AKNS A411	Tribes, Nations and Peoples	3 CR
Contact Hours: 3 + 0 Registration Restrictions: PS A101 or PS A102 or Junior standing. Crosslisted with: PS 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.		
AKNS A420	Alaska Native Education	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Upper-division standing. Examination of educational policies as they relate to Native Americans with an emphasis on these policies' historical implementation in Alaska and the contemporary issues which have arisen as a result of those efforts.		
AKNS A490	Selected Topics in Alaska Native Studies	1-3 CR
Contact Hours: 1-3 + 0 Registration Restrictions: Upper-division standing. 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 upper level. Tradition and change in Native social institutions in contemporary society. Methods of identifying and analyzing significant Native social change processes for public understanding.		
AKNS A492	Seminar: Cultural Knowledge of Native Elders	3 CR
Contact Hours: 3 + 0 Registration Restrictions: AKNS A201 or Upper-division standing. Special Fees. Special Note: Students enrolling in this course should have either upper division class standing with a strong background in the social sciences or appropriate life experience or a combination of the two prior to enrolling for this course. Provides students exposure to and interaction with prominent Alaska Native tradition bearers in order to ascertain knowledge of the traditional values, culture, and world views which comprise the heritage of Alaska Native people. Students will gather information on traditional values, governance, and leadership by eliciting accounts of the elders' experiences, and by comparing Native and "Western" culture, understand the significance of cultural differences in world view, heritage, and communication.		

AKNS A495	Alaska Native Studies Internship	1-3 CR
Contact Hours: 1-3 + 0 Registration Restrictions: Instructor permission, upper division standing, and knowledge of Alaska Native issues required. Special Note: Placement varies, may be repeated for credit with a different placement for up to six credits for the Alaska Native Studies Minor. An opportunity for students to apply the subject matter of Alaska Native Studies to the practical life of their community. Internships are available in a variety of governmental, non-profit and profit settings, and require a formal agreement between the student, the faculty member and the supervisor; a work evaluation; and a student report.		

ANTHROPOLOGY - ANTH

Offered through the College of Arts and Sciences
Beatrice McDonald Hall (BMH), Room 212, 786-6840
<http://anthro.uaa.alaska.edu/>

ANTH A101	Introduction to Anthropology	3 CR
Contact Hours: 3 + 0 Course Attributes: UAA GER Social Sciences Requirement. Special Note: Recommended for majors and non-majors. Offered Fall and Spring Semesters. Introduction to fundamentals of the four subfields of anthropology: archaeology, cultural anthropology, biological anthropology and anthropological linguistics. The course introduces basic ideas, methods and findings of anthropology.		
ANTH A200	Natives of Alaska	3 CR
Contact Hours: 3 + 0 Course Attributes: UAA GER Social Sciences Requirement. Special Note: Offered Fall and Spring Semesters. Introduction to culture and history of Alaska Natives. Includes environmental settings, linguistic subdivisions, traditional sociocultural organization and subsistence patterns, contact with non-Native groups, and contemporary issues.		
ANTH A202	Cultural Anthropology	3 CR
Contact Hours: 3 + 0 Course Attributes: UAA GER Social Sciences Requirement. Special Note: Offered Fall and Spring Semesters. Introduction to the methods, theories, and fundamental concepts for the study of cultural systems. Includes social relationships, economic organization, political systems, symbols and beliefs. Serves as foundation for more specialized courses in cultural anthropology.		
ANTH A205	Biological Anthropology	3 CR
Contact Hours: 3 + 0 Special Note: Offered Fall and Spring Semesters. Introduction to human behavior, genetics, classification and evolution with comparisons to other primates. Examines distribution, morphological and physiological adaptations of human populations.		
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. Special Note: Offered Fall and Spring Semesters. A survey of the emergence of civilization in human cultural development. Covers development of domestication, urbanization, trade, and state formation in a comparative framework. Emphasizes non-Western Civilizations: China, India, Southeast Asia, Mesoamerica, South America and Africa.		
ANTH A260	Old World Archaeology	3 CR
Contact Hours: 3 + 0 Special Note: Offered Spring Semesters. Tracing human developments in Asia, Africa, and Europe from the origins of humanity to the rise of the first civilizations.		

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 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	Culture and Personality	3 CR
Contact Hours: 3 + 0 Registration Restrictions: ANTH A202 or SOC A101 recommended. Special Note: Offered as Demand Warrants. Examination of the relationship between culture, social institutions, and psychological variables on a cross-cultural basis.		
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 ethnohistoric documents.		
ANTH A330	Ancient Civilizations of Mexico and Guatemala	3 CR
Contact Hours: 3 + 0 Special Note: Offered as Demand Warrants. Study of the origin, 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 affiliations, 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 affiliations, major migrations and selected current issues.		
ANTH A350	Survey of the Primates	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Upper-division standing. Special Note: Offered as Demand Warrants. Introduction to the biology and behavior of nonhuman primates.		
ANTH A354	Culture and Ecology	3 CR
Contact Hours: 3 + 0 Prerequisites: ANTH A202. Registration Restrictions: ANTH A202. Special Note: Offered as Demand Warrants. Anthropological approaches to the relationships between cultural and ecological systems. The notion of culture as an adaptive system and the role of various cultural subsystems in different adaptations. Intensive study of selected cases provides empirical grounding for theoretical formulations.		

ANTH A361	Language and Culture	3 CR
Contact Hours: 3 + 0 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 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 Prerequisites: ANTH A202. Special Note: Offered Spring Semesters. Development of the science of anthropology, stressing the leaders in the field and the theories developed.		
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. 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 A426	Arctic Ethnology	3 CR
Contact Hours: 3 + 0 Prerequisites: ANTH A200 or ANTH A202. Special Note: Offered Alternate Spring Semesters. Survey of the traditional cultures of the Native peoples of the circumpolar north from Siberia to Greenland in their environmental and historical contexts.		
ANTH A427	Ethnohistory of Alaska Natives	3 CR
Contact Hours: 3 + 0 Registration Restrictions: ANTH A200 and HIST A341 strongly recommended. 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 A430	Research Methods in Cultural Anthropology	3 CR
Contact Hours: 3 + 0 Prerequisites: ANTH A202. 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, ethics 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.

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 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, prehistory, 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, Alutiq, 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: AS A253 or AS A307 strongly recommended.

Stacked with: ANTH A645.

Special Note: Offered as Demand Warrants.

Evolution of human response to disease: evolution of disease response to humans. Interrelationships of human behavior, biology, and disease. Paleopathological diagnosis.

ANTH A450 Human Evolution 3 CR

Contact Hours: 3 + 0

Registration Restrictions: ANTH A205 or equivalent.

Special Note: Offered as Demand Warrants.

Intensive study of the last four million years of human evolution. Emphasizes evolutionary theory and the analysis and interpretation of fossil hominids.

ANTH A455 Medical Anthropology 3 CR

Contact Hours: 3 + 0

Prerequisites: ANTH A202 or ANTH A205.

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 A456 Anthropology and the Law 3 CR

Contact Hours: 3 + 0

Crosslisted with: JUST A456.

Special Note: Offered as Demand Warrants.

Study of cross-cultural variations in forms of social control or law, including traditional Alaskan Native forms. Moving beyond the purely theoretical concerns of law cross-culturally, this course will investigate legal service delivery problems in cross-cultural settings, drawing upon both anthropological knowledge and jurisprudence. Ways for improving legal service delivery systems will be examined. Service delivery systems will be examined.

ANTH A457 Food and Nutrition: An Anthropological Perspective 3 CR

Contact Hours: 3 + 0

Registration Restrictions: ANTH A205 recommended.

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 A480 Analytical Techniques in Archaeology 3 CR

Contact Hours: 0 + 9

Registration Restrictions: Faculty permission and ANTH A211 recommended.

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.

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 A485 Human Osteology 3 CR

Contact Hours: 2 + 3

Prerequisites: ANTH A205.

Stacked with: ANTH A685.

Special Fees.

Special Note: Offered as Demand Warrants.

Methods and techniques of and theoretical approaches to human skeletal identification, description, and analysis. Includes identification of age, sex, and racial attributes as well as interpretation of pathological changes in human bone.

ANTH A490 Selected Topics in Anthropology 1-3 CR

Contact Hours: 1-3 + 0

Special Note: May be repeated for credit with change of subtitle.

Topics in anthropology presented by members of the professional community.

ANTH A602 Proseminar in Cultural Anthropology 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Special Fees.

Special Note: Offered as Demand Warrants.

Examines major concepts, findings, and theories in cultural anthropology. Topics covered include kinship, social structure, political organization, symbols and ceremonies, cultural change, and cultural integration. Core offering for graduate program.

ANTH A605 Proseminar in Biological Anthropology 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Special Fees.

Special Note: Offered as Demand Warrants.

Methods and techniques of and theoretical approaches to topics in biological anthropology. Includes the study of evolution, human genetics, primate biology and behavior, human evolution, and statistical interpretation of biological data.

ANTH A611 Proseminar in Archaeology 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate standing.

Special Fees.

Special Note: Offered as Demand Warrants.

A survey of the practice and techniques of modern archaeological data collection and analysis designed for graduate students, professionals, and other serious students. Case studies, class discussions based on readings, and student presentations emphasized with a focus upon the archaeology of prestate/nonstate societies.

ANTH A615 Advanced Applied Anthropology 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate standing.

Stacked with: ANTH A415.

Special Fees.

Special Note: Lectures concurrent with ANTH A415. In addition to meeting all requirements for ANTH A415, graduate students will be required to make mixed-media class presentations based on literature research or interviews with local practicing anthropologists. 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 A627 Ethnohistory of Alaska Natives 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Stacked with: ANTH A427.

Special Fees.

Special Note: In addition to meeting all requirements for ANTH A427, graduate students will be required to prepare a research paper from primary sources (oral, written, or both) and give a presentation of findings to the class.

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 archaeological evidence.

ANTH A630 Advanced Research Methods in Cultural Anthropology 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Stacked with: ANTH A430.

Special Fees.

Special Note: Lectures concurrent with ANTH A430. In addition to meeting all requirements for ANTH A430, graduate students will be required to complete a research grant proposal and engage in computer-assisted qualitative data analysis. Offered as Demand Warrants.

Modes of scientific data gathering, analysis, and interpretation related to sociocultural systems. Includes the logic of scientific inquiry, research design, data recording, computer assisted qualitative data analysis, field work strategies, ethnographic and report writing, ethics in social science research and grant proposal preparation.

ANTH A631 Field Methods in Archaeology 1-8 CR

Contact Hours: 0 + 3-24

Registration Restrictions: Written permission of the instructor.

Stacked with: ANTH A431.

Special Fees.

Special Note: May be repeated once for credit. Graduate students will supervise the work of less experienced undergraduates under the overall supervision of the project directory. They will be responsible for the quality of the excavation and recording of their undergraduate crew. They will be critically evaluated as potential professionals. Offered as Demand Warrants.

Advanced methods of archaeological field research, including site survey, site excavation, data recovery and recording, laboratory processing, and preliminary analysis of archaeological materials.

ANTH A645 Advanced Evolution of Humans and Disease 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Stacked with: ANTH A445.

Special Fees.

Special Note: In addition to meeting all requirements for ANTH A445, graduate students will be assigned more extensive reading and will be required to pursue a major semester-long research project, to deliver a presentation of their research findings to the class, and to report their results in written form. Not available for credit to students who have completed ANTH A445. Offered as Demand Warrants.

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. Includes methods and theory of statistical interpretation of skeletal data.

ANTH A655 Advanced Medical Anthropology 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Stacked with: ANTH A455.

Special Fees.

Special Note: In addition to meeting all requirements for ANTH A455, graduate students will be required to research the literature on a current topic in medical anthropology or to conduct independent research in medical anthropology, and to submit an extensive, detailed paper summarizing their findings in a rigorous analytical framework. Additional class readings may also be assigned. Not available for credit to students who have completed ANTH A455. 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 A657 Nutritional Anthropology 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Stacked with: ANTH A457.

Special Fees.

Special Note: In addition to meeting all requirements for ANTH A457, graduate students will be required to research the literature on a current topic in nutritional anthropology or to conduct independent research in nutritional anthropology, and to submit an extensive, detailed paper summarizing their findings in a rigorous analytical framework. Additional class readings may also be assigned. Not available for credit to students who have completed ANTH A457. 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 A665 Analytical Techniques in Biological Anthropology 3 CR

Contact Hours: 2 + 3

Registration Restrictions: Graduate Standing.

Special Fees.

Special Note: Offered as Demand Warrants.

Methods, techniques, and theoretical approaches to topics in biological anthropology. Includes survey of basic conceptual issues in the design of empirical research and statistical interpretation of biological data.

ANTH A675 Cultural Resource Management 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Special Fees.

Special Note: Offered as Demand Warrants.

An integrated anthropological perspective on historic preservation and the management of cultural resources in the United States. Includes the history of resource protection legislation, the design and implementation of cultural resource management projects, proposal writing, field research strategies, resource evaluation, report preparation, and business and personnel practices.

ANTH A680 Advanced Analytical Techniques in Archaeology 3 CR

Contact Hours: 0 + 9

Registration Restrictions: Written permission of the instructor and graduate standing.

Stacked with: ANTH A480.

Special Fees.

Special Note: Class meets concurrently with ANTH A480. In addition to meeting all requirements for ANTH A480, graduate students will be assigned more extensive reading and will be required to pursue a major semester-long research project, to deliver a presentation of their research finds to the entire class, and to report their results in written form. Offered as Demand Warrants.

Advanced methods and techniques of description, classification, and analysis of archaeological data. Laboratory work with archaeological specimens and data is emphasized.

ANTH A681 Advanced Museum Studies in Anthropology 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Stacked with: ANTH A481.

Special Fees.

Special Note: In addition to doing the work assigned to undergraduates, graduate students will be expected to undertake an extensive collection research or exhibition preparation project which will constitute a significant portion of their grade. Offered as Demand Warrants.

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 A683 Archaeology of Animals 3 CR

Contact Hours: 2 + 3

Registration Restrictions: Graduate Standing and previous or concurrent course in archaeology laboratory methods.

Special Fees.

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 A685 Advanced Human Osteology 3 CR

Contact Hours: 2 + 3

Registration Restrictions: Graduate standing.

Stacked with: ANTH A485.

Special Fees.

Special Note: Class meets concurrently with ANTH A485. In addition to meeting all the requirements for ANTH A485, graduate students will be assigned more extensive reading and will be required to pursue a major semester-long research project, to deliver a presentation of their research findings to the entire class, and to report their results in written form. Not available for credit to students who have completed ANTH A485. Offered as Demand Warrants.

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. Includes methods and theory of statistical interpretation of skeletal data.

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.

ALASKA OUTDOOR AND EXPERIENTIAL EDUCATION - AOEE*Offered through the Community & Technical College**Eugene Short Hall (ESH), Room 125, 786-4083**<http://ctc.uaa.alaska.edu/>***AOEE A101 Outdoor Adventure in Alaska 2 CR**

Contact Hours: 1 + 2

Special Fees.

Special Note: Requires good physical fitness and ability to function comfortably in inclement weather. Students may need to rent or purchase additional equipment for this course.

Provides an 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 (classic), or winter camping.

AOEE A102 Nature Observation and Tracking 3 CR

Contact Hours: 1 + 4

Special Fees.

Special Note: Requires ability to function comfortably in inclement weather.

Introduces 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.

AOEE A103 Discovering Wild Plants 1 CR

Contact Hours: .5 + 1

Special Fees.

Special Note: Requires ability to function comfortably in inclement weather.

Introduces the diversity of Alaska's flora and its myriad uses. Addresses risk assessment and hazard evaluation, especially in relation to identifying and/or using edible, poisonous, and medicinal species.

AOEE A104 Backpack Alaska 3 CR

Contact Hours: 1 + 4

Special Fees.

Special Note: Requires good physical condition and ability to function comfortably in inclement weather.

Provides an introduction to backpacking in Alaska. Covers trip planning and selection of personal, group, and safety equipment appropriate for overnight trips. Presents the opportunity during outings to practice hazard evaluation, front and backcountry navigation, and hiking/camping/cooking skills.

AOEE A105 Alaska's Wild Mushrooms 1 CR

Contact Hours: .5 + 1

Special Fees.

Special Note: Requires ability to travel off trail and function comfortably in inclement weather.

Focuses on field identification of mushrooms with emphasis on those common to Alaska. Covers identification through drawings, visual guides, macroscopic features and spore prints. Includes collection techniques, preservation, edible vs. poisonous species and historic use. Addresses risk assessment and hazard evaluation in relation to gathering mushrooms in local environment. Includes field outing.

AOEE A116 Rock Climbing I 1 CR

Contact Hours: .5 + 1

Special Fees.

Special Note: Requires ability to function comfortably in inclement weather.

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 during outings to practice knots, rope handling, belay, basic descending techniques, and top-rope rock climbing.

AOEE A117 Ice Climbing I 1 CR

Contact Hours: .5 + 1

Special Fees.

Special Note: Requires ability to function comfortably in extremely cold temperatures and inclement weather.

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.

AOEE A121	Crevasse Rescue Techniques	1 CR
Contact Hours: .5 + 1 Special Fees. Special Note: Requires the ability to perform comfortably in extremely cold and/or inclement weather. Field sessions include all-day clinics and may include an overnight outing. Introduces the most commonly used equipment and techniques 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.		
AOEE A126	Indoor Sport Climbing I	1 CR
Contact Hours: .5 + 1 Grade Mode: Pass/No Pass. Special Fees. Introduces the fundamentals of sport climbing in an indoor environment. Covers hazard evaluation and risk assessment specific to climbing gyms, selection of personal gear, technical needs, and safety equipment. Provides opportunity to practice knots, rope handling, belaying, descent techniques, and top-rope climbing on an indoor climbing wall.		
AOEE A131	Flat-Water Canoeing	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 is 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.		
AOEE A132	River Rafting I	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 is 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 an emphasis on risk assessment and risk management.		
AOEE A133	Introduction to 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 is 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 activity. 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.		
AOEE A134	Alaska Marine Survival	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 is included in the course. 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.		
AOEE A135	SCUBA	2 CR
Contact Hours: 1.5 + 1 Special Fees. Special Note: Students may need to pay a dive-equipment fee as well as rent or purchase additional gear for practical sessions. Course meets Professional Association of Diving Instructors (PADI) and National Association of Underwater Instructors (NAUI) standards. Certification fees are not included in course fees. 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.		
AOEE A136	Introduction to Sailing	1 CR
Contact Hours: .5 + 1 Special Fees. Special Note: Requires ability to perform comfortably in inclement weather. Field sessions may be held on local lakes and/or an 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.		

AOEE A146	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. Students may need to rent or purchase additional equipment for this course. 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.		
AOEE A147	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 skate-skiing techniques for groomed trail conditions. Covers hot-waxing, selection of personal and safety equipment, recognition and prevention of cold-weather injuries, and trail ethics. Provides opportunity for skiing on local trails.		
AOEE A148	Skiing Alaska's Backcountry	1 CR
Contact Hours: .5 + 1 Special Fees. Special Note: Requires ability to perform 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, introduction to avalanche hazard evaluation, and learning to assess risk in the field.		
AOEE A149	Introduction to 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.		
AOEE A150	Introduction to Snowboarding	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 snowboarding and the equipment, techniques, challenges, and risks common to the sport. Covers selection of personal and safety equipment, recognition and prevention of cold-weather injuries, snowboarding techniques, and ski-hill rules.		
AOEE A151	Introduction to 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.		
AOEE A152	Introduction to Winter Camping	1 CR
Contact Hours: .5 + 1 Special Fees. Special Note: Requires good physical condition and ability to perform 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.		
AOEE A153	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.		

AOEE A154	Alaska Winter Survival	3 CR
Contact Hours: 1 + 4 Special Fees. Special Note: Requires excellent backpacking skills, good physical condition, and ability to perform comfortably in extremely cold and inclement weather. 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.		
AOEE A155	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.		
AOEE A160	Remote First Aid	1 CR
Contact Hours: .5 + 1 Special Fees. Special Note: National Wilderness First Aid and Adult CPR certifications provided upon successful completion of course. This course is not designed for health care providers. Introduces knowledge and skills necessary to deal with accidents and injuries when 911 is not readily available. Covers assessment and management of the scene, assessment and management of life-threatening conditions, assessment and management/treatment of minor injuries and appropriate patient care for each. Introduces decision making as it relates to delayed transport.		
AOEE A163	Wilderness First Responder	4 CR
Contact Hours: 2 + 4 Special Fees. Special Note: Students are required to possess BLS Provider CPR certificate before end of course. An additional fee may be required for CPR certification. Students will be awarded nationally recognized WFR certificate upon successful completion of course. 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.		
AOEE A204	Expedition Backpacking	2 CR
Contact Hours: 1 + 2 Prerequisites: AOEE A104. 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.		
AOEE A206	Wilderness Leadership	3 CR
Contact Hours: 1 + 4 Special Fees. Special Note: Requires AOEE coordinator's signature. Also requires excellent physical condition and ability to function comfortably in inclement weather. Provides experienced outdoors people with the opportunity to improve wilderness skills and knowledge and to learn how to lead others in outdoor education and recreation. Provides opportunity to present curriculum, facilitate group discussions, improve judgment, practice decision-making and leadership, and teach outdoor living skills.		
AOEE A216	Rock Climbing II	1 CR
Contact Hours: .5 + 1 Prerequisites: AOEE A116. Special Fees. Special Note: Requires ability to function comfortably in inclement weather. Builds on the skill and knowledge gained in Rock Climbing I. 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.		
AOEE A221	Expedition Glacier School	2 CR
Contact Hours: 1 + 2 Special Fees. Special Note: Requires excellent physical condition and the ability to function comfortably in extremely cold and/or inclement weather. 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.		

AOEE A263	Wilderness Emergency Medical Technician	4 CR
Contact Hours: 2 + 4 Prerequisites: EMT A130. Special Fees. 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.		
AOEE A275	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.		
AOEE A325	Natural History Interpretation and Environmental Education	3 CR
Contact Hours: 3 + 0 Prerequisites: BIOL/GEOL A104 or ENVI A202 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.		
AOEE A355	Survival and Search and Rescue for Adventure Leaders	3 CR
Contact Hours: 3 + 0 Prerequisites: AOEE A163 and AOEE A275 Registration Restrictions: Activity course requirements completed; instructor approval. 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.		
AOEE A375	Adventure Leadership Theory and Practice	3 CR
Contact Hours: 3 + 0 Prerequisites: AOEE A275 and PE 282 and PE A287 and (PE A366 or concurrent enrollment). Presents theories of leadership with emphasis on adventure programming application. Covers leadership styles, power, motivation, followership, group dynamics, diversity, safety, and ethics.		
AOEE A425	Organizational Safety and Risk Management	3 CR
Contact Hours: 3 + 0 Prerequisites: AOEE A163 and AOEE A355 and (AOEE A375 or concurrent enrollment) and PE A366. 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.		
AOEE A435	Challenge Course Adventure Leadership	2 CR
Contact Hours: .5 + 3 Prerequisites: PE A282 and AOEE A355 and AOEE A375. Provides techniques and strategies of challenge course leadership. Emphasizes application of leadership skills in field-based experiences. Covers assessment, logistics, low and high ropes elements, and safety, with an emphasis on facilitation and debriefing.		
AOEE A445	Land-Based Adventure Leadership	2 CR
Contact Hours: .5 + 3 Prerequisites: (AOEE A153 or AOEE A154) and AOEE A163 and (AOEE A375 or concurrent enrollment). Registration Restrictions: Instructor permission. Presents 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.		
AOEE A455	Water-Based Adventure Leadership	2 CR
Contact Hours: .5 + 3 Prerequisites: AOEE A131 and (AOEE A132 or AOEE A133) and AOEE A163 and (AOEE A375 or concurrent enrollment). Registration Restrictions: Instructor permission. Presents 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.		

AOEE A465 Climbing-Based Adventure Leadership 2 CR
 Contact Hours: .5 + 3
 Prerequisites: AOEE A116 and AOEE A117 and AOEE A121 and AOEE A126 and AOEE A163 and AOEE A216 and (AOEE A375 or concurrent enrollment).
 Registration Restrictions: Instructor permission.

Presents 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.

AOEE A495 Internship in Adventure Leadership 6 CR
 Contact Hours: .5 + 16.5

Prerequisites: AOEE A375 and AOEE A425 and PE A444.

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; admission to BS in PE; senior status.

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.

ART - ART

Offered through the College of Arts and Sciences

Fine Arts Building (ARTS), Room 302A, 786-1783

<http://art.uaa.alaska.edu>

ART A100 Two Dimensional Activities 1-3 CR
 (Select Drawing, Painting, Design, or Computer Topics)

Contact Hours: 0-3 + 0-9

Grade Mode: Pass/No Pass.

Special Fees.

Special Note: Does not satisfy BA, BFA, or minor in art degree requirements. May be repeated for credit.

Art studio topics in drawing, painting, design or computers 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
 (Select Metals, Sculpture, or Ceramics Topics)

Contact Hours: 0-3 + 0-9

Grade Mode: Pass/No Pass.

Special Fees.

Special Note: Does not satisfy BA, BFA or minor in art degree requirements. May be repeated for credit.

Art studio topics in metals, sculpture, or ceramics 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
 (Select Fiber, Basket Making, or Weaving Topics)

Contact Hours: 0-3 + 0-9

Grade Mode: Pass/No Pass.

Special Fees.

Special Note: Does not satisfy BA, BFA, or minor in art degree requirements. May be repeated for credit.

Art studio topics in all areas of fibers, basket making or weaving may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

ART A103 Multi Process Activities 1-3 CR
 (Select Printmaking, Papermaking, or Photography Topics)

Contact Hours: 0-3 + 0-9

Grade Mode: Pass/No Pass.

Special Fees.

Special Note: Does not satisfy BA, BFA, or minor in art degree requirements. May be repeated for credit.

Art studio topics in all areas of printmaking, papermaking, or photography 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: 0-3 + 0-9

Grade Mode: Pass/No Pass.

Special Fees.

Special Note: Does not satisfy BA, BFA, or minor in art degree requirements. May be repeated for credit.

Art studio topics in all areas of multi-media art processes may be offered 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

Stacked with: ART A205, ART A305, and ART A405.

Special Fees.

Introduction to elements of drawing. Dry and wet media such as pencil, charcoal, and ink. Class and homework assignments in drawing objects, still lifes, perspective effects, and human forms.

ART A111 Two-Dimensional Design 3 CR

Contact Hours: 0 + 6

Special Fees.

Study of organization, structure, and composition of form through use of basic design elements such as line, shape, and value. Emphasis is on development of design as related to two-dimensional art.

ART A112 Color Design 3 CR

Contact Hours: 0 + 6

Special Fees.

Two-dimensional study of fundamentals of color and visual perception. Design projects will emphasize evaluation and mixing of color and include development of a color wheel to acquire understanding of contrast in hue, value, and intensity.

ART A113 Three-Dimensional Design 3 CR

Contact Hours: 0 + 6

Special Fees.

Exploration of three-dimensional design, employing such materials as paper, card, wood, sheet metal, plastic and wire using simple hand and machine techniques.

Analysis and discussion of three-dimensional perception will be directed by projects that develop awareness. Seeks to stimulate discussion and analysis of three-dimensional perception.

ART A160 Art Appreciation 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Fine Arts Requirement.

Special Fees.

Special Note: Course meets General Education Requirement except for Art majors.

Development of an appreciation of all the visual arts. Course 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 A185B Aleut Basket Weaving 1 CR

Contact Hours: 0 + 2

Offered only at Kodiak College.

Special Note: Does not satisfy BA in Art or BFA degree requirements.

A crafts involvement in the authentic, fine-twined basketwork of the Aleutian Islands.

ART A201 Beginning Handbuilt Ceramics 3 CR

Contact Hours: 0 + 6

Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.

Special Fees.

Special Note: May be repeated once for credit.

Introduction to ceramic materials and process. Emphasis on handbuilding forming methods. Includes clays, clay bodies, slips, glazes, and the firing process. Exposure to idea development and creative problem solving.

ART A202 Beginning Wheelthrown Ceramics 3 CR

Contact Hours: 0 + 6

Prerequisites: ART A201.

Special Fees.

Special Note: May be repeated once for credit.

Introduction to ceramic materials and process. Emphasis on wheelthrowing techniques. Includes clays, clay bodies, slips, glazes and the firing process. Exposure to the history and aesthetics of the pottery tradition.

ART A205	Intermediate Drawing	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A105. Stacked with: ART A105, ART A305, and ART A405. Special Fees. Special Note: May be repeated once for credit. Drawing in class from live models. Emphasizes expanding visual awareness through drawing.		
ART A209	Beginning Metalsmithing and Jewelry	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262. Stacked with: ART A309 and ART A409. Special Fees. Special Note: May be repeated once for credit. Introduces basic techniques of metalsmithing and jewelry.		
ART A211	Beginning Sculpture	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262. Stacked with: ART A311 and ART A411. Special Fees. Special Note: May be repeated once for credit. Exploration of fundamental elements of form, mass, volume, scale, material and surface. Introduction to aesthetics and history of modern sculpture. Acquaints student with the tools, techniques and materials available to the sculptor.		
ART A212	Beginning Watercolor Painting	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262. Stacked with: ART A312 and ART A412. Special Fees. Special Note: May be repeated once for credit. Exploration of aquarelle techniques. Emphasizes composition as affected by color, value, stylistic considerations, and individual expression; exhibition procedures are included.		
ART A213	Beginning Painting	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262. Stacked with: ART A313 and ART A413. Special Fees. Special Note: May be repeated once for credit. Introduction to basic materials and techniques in oil or acrylic painting. Emphasizes understanding form in space and light, and the interaction of form with color, value, and texture in paint.		
ART A215	Beginning Printmaking	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262. Stacked with: ART A315 and ART A415. Special Fees. Special Note: Two processes will be focused on each semester. May be repeated once for credit. Beginning lithography, serigraphy, intaglio and relief history and techniques are investigated. Encourages creativity and craftsmanship in the development and printing of multiples, augmented with an awareness of traditional and contemporary methods and skills.		
ART A224	Beginning Photography	3 CR
Contact Hours: 0 + 6 Crosslisted with: JPC A224. Special Fees. Basic principles including camera functions and the utilization of these functions for artistic expression through the processing and printing of black and white film.		
ART A225	Beginning Digital Photography	3 CR
Contact Hours: 0 + 6 Registration Restrictions: Basic computer skills needed. Special Fees. Basic principles including digital camera functions, digital tools and technology for artistic expression in the creation of photographic images.		

ART A252	Beginning Graphic Design and Illustration	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262. Special Fees. Special Note: May be repeated for credit. Idea development and problem solving skills for the commercial market. Introduction to client identity, printing, and production process. Survey of industry history.		
ART A261	History of World 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 emphasizing art of the Western World.		
ART A262	History of World 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. The course covers the history of art from the Renaissance through the modern period with emphasis on the art of the Western World.		
ART A271	Beginning Surface Design	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262. Stacked with: ART A371 and ART A471. Special Note: May be repeated for credit. 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 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262. Stacked with: ART A372 and ART A472. Special Note: May be repeated for credit. Introduction to hand constructed textiles, adapting traditional methodology to the production of contemporary art.		
ART A273	Beginning Woven Forms	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262. Stacked with: ART A373 and ART A473. Special Note: May be repeated for credit. Introduction to European floor loom. Various on-loom techniques are utilized in the production of the art fabric.		
ART A301	Intermediate Handbuilt Ceramics	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A202. Stacked with: ART A401. Special Fees. Special Note: May be repeated once for credit. Continued and intensified development of handbuilding forming methods with more emphasis on form, content, and creative problem solving. Includes all forming methods, low fire through high fire clay bodies, slips, glazes, and firing techniques.		
ART A302	Intermediate Wheelthrown Ceramics	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A202. Stacked with: ART A402. Special Fees. Special Note: May be repeated once for credit. Continued and intensified development of wheelthrowing techniques with more emphasis on the history and aesthetics of functional pottery. Includes low fire through high fire clay bodies, slips, glazes and firing techniques.		
ART A305	Advanced Drawing	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262. Stacked with: ART A105, ART A205, and ART A405. Special Fees. Special Note: May be repeated for credit. Development and refinement of individual problems in drawing.		

ART A307 Life Drawing and Composition 3 CR
 Contact Hours: 0 + 6
 Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
 Stacked with: ART A356.
 Special Fees.
 Special Note: May be repeated for credit.

Drawing from live models to explore possibilities in design composition. Emphasizes form and space using charcoal, pen, brush, and other media.

ART A309 Intermediate Metalsmithing and Jewelry 3 CR
 Contact Hours: 0 + 6
 Prerequisites: ART A209.
 Stacked with: ART A209 and ART A409.
 Special Fees.
 Special Note: May be repeated for credit.

Further investigation of material processes and techniques for metalsmithing and jewelry with more emphasis on design.

ART A311 Intermediate Sculpture 3 CR
 Contact Hours: 0 + 6
 Prerequisites: ART A211.
 Stacked with: ART A211 and ART A411.
 Special Fees.
 Special Note: May be repeated for credit.

Further exploration of sculptural concepts and processes with emphasis given to the aesthetics and history of modern sculpture. Continued development of construction skills with access to more advanced machine tools and processes.

ART A312 Intermediate Watercolor Painting 3 CR
 Contact Hours: 0 + 6
 Prerequisites: ART A212.
 Stacked with: ART A212 and ART A412.
 Special Fees.
 Special Note: May be repeated for credit.

Continued and intensified development of expressive skills in watercolor painting. Reviews techniques and refines material usage with the emphasis on individual approaches to pictorial and conceptual problems in watercolor.

ART A313 Intermediate Painting 3 CR
 Contact Hours: 0 + 6
 Prerequisites: ART A213.
 Stacked with: ART A213 and ART A413.
 Special Fees.
 Special Note: May be repeated for credit.

Continued and intensified development of expressive skills in painting. Reviews techniques and refines materials usage with the emphasis on individual approaches to pictorial and conceptual problems in oil and acrylic.

ART A315 Intermediate Printmaking 3 CR
 Contact Hours: 0 + 6
 Registration Restrictions: 6 credits of ART A215.
 Stacked with: ART A215 and ART A415.
 Special Fees.
 Special Note: May be repeated for credit.

Expands on processes with advanced and more critical applications of printmaking techniques. Continued development of individual creative concepts in image making is encouraged.

ART A323 Color Photography 3 CR
 Contact Hours: 0 + 6
 Prerequisites: ART A224 or JPC A224.
 Crosslisted with: JPC A323.
 Special Fees.
 Special Note: May be repeated for credit.

Advanced techniques in color transparencies, color negatives, and color printing.

ART A324 Intermediate Photography 3 CR
 Contact Hours: 0 + 6
 Prerequisites: ART A224 or JPC A224.
 Crosslisted with: JPC A324.
 Special Fees.

Further development of photographic skills. Includes photographic perception of awareness, ideas and concepts, and the 'fine print.'

ART A331 Experimental Photography 3 CR
 Contact Hours: 0 + 6
 Prerequisites: ART A324 or JPC A324.
 Crosslisted with: JPC A331.
 Special Fees.
 Special Note: May be repeated for credit.

Exploration of various special effects and techniques. Emphasizes creativity using various photographic processes.

ART A352 Intermediate Graphic Design 3 CR
 Contact Hours: 0 + 6
 Prerequisites: ART A252.
 Stacked with: ART A452.
 Special Fees.
 Special Note: May be repeated for credit.
 Applied problems in intermediate graphic design.

ART A353 Intermediate Illustration 3 CR
 Contact Hours: 0 + 6
 Prerequisites: ART A252.
 Stacked with: ART A453.
 Special Fees.
 Special Note: May be repeated for credit.
 Applied problems in intermediate illustration.

ART A356 Drawing for Illustration 3 CR
 Contact Hours: 0 + 6
 Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
 Stacked with: ART A307.
 Special Fees.
 Special Note: May be repeated for credit.
 Refinement of drawing skills from live models for application to illustration and graphic design projects.

ART A357 Computer Art and Design 3 CR
 Contact Hours: 0 + 6
 Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
 Special Fees.
 Special Note: May be repeated once for credit.
 Introduces techniques and tools pertinent to the graphic designer.

ART A358 Children's Book Illustration 3 CR
 Contact Hours: 0 + 6
 Special Note: May be repeated once for credit.
 Techniques and materials. Course work includes conceptualization and composition of visuals for individual pages, book layout, discussion of market presentation and portfolio organization.

ART A362 History of Modern Art 3 CR
 Contact Hours: 3 + 0
 Prerequisites: ART A262.
 Special Fees.
 Development of mid to late 19th century and 20th century art. 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.
 Special Fees.
 Analysis of the work and thought of major artists in painting and sculpture from post-World War II to the present. The relationship of visual art to social and cultural trends during this period will be examined.

ART A364 Italian Renaissance Art 3 CR
 Contact Hours: 3 + 0
 Prerequisites: ART A261.
 Special Fees.
 Renaissance art from early Florentine beginnings to the high Renaissance of Venice.

ART A365 Native Art of Alaska 3 CR
 Contact Hours: 3 + 0
 Special Fees.
 Art forms of the Eskimo, Indian, and Aleut; prehistory to the present.

ART A366 History of Asian Art 3 CR
 Contact Hours: 3 + 0
 Prerequisites: ART A261.
 Special Fees.

Visual arts of Asiatic culture; prehistoric to the present. This course surveys selected works of painting, sculpture, architecture and other visual arts in relation to the culture in which they were produced.

ART A367 History of Photography 3 CR
 Contact Hours: 3 + 0
 Crosslisted with: JPC A367.
 Course Attributes: UAA GER Fine Arts Requirement. UAA GER Humanities Requirement.
 Special Fees.

Evolution of photography; 1816 to the present. This course surveys style, approach, content and form of the major trends in Europe and America.

ART A371	Intermediate Surface Design	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A271. Stacked with: ART A271 and ART A471. Special Note: May be repeated for credit. 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 Tritic are utilized as the basis for individual expression and design resolution.		
ART A372	Intermediate Fiber Structure	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A272. Stacked with: ART A272 and ART A472. Special Note: May be repeated for credit. Explores traditional percussion textiles such as paper and felt making as interpreted in a contemporary context.		
ART A373	Intermediate Woven Forms	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A273. Stacked with: ART A273 and ART A473. Special Note: May be repeated for credit. Emphasis on advanced floor loom techniques for the production of contemporary art.		
ART A392	Seminars and Selected Topics in Art	1-6 CR
Contact Hours: 1-6 + 0 Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262. Special Fees. Lecture course dealing with current issues in the arts. Seminars on various topics will depend upon student and faculty interest as well as areas of faculty expertise. Course may be of interest to students desiring assistance in developing their thesis topic and statement.		
ART A401	Advanced Handbuilt Ceramics	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A301. Stacked with: ART A301. Special Fees. Special Note: May be repeated once for credit. Clay as a sculpture medium. Emphasis on the ceramic process as a vehicle for personal statement. Includes large-scale, architectural freestanding installation projects. Low fire through high fire clay body, slip, and glaze development. Kiln design and firing.		
ART A402	Advanced Wheelthrown Ceramics	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A302. Stacked with: ART A302. Special Fees. Special Note: May be repeated once for credit. History and aesthetics of functional pottery as a vehicle for personal statement. Includes low through high fire clay body, slip, and glaze development. Kiln design and firing.		
ART A405	Experimental Drawing	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A305. Stacked with: ART A105, ART A205, and ART A305. Special Fees. Special Note: May be repeated for credit. Investigate the development of ideas through experimentation with contemporary techniques and materials in drawing.		
ART A409	Advanced Metalsmithing and Jewelry	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A309. Stacked with: ART A209 and ART A309. Special Fees. Special Note: May be repeated for credit. Continued investigation of materials and processes with an introduction to hollowware skills and forging.		
ART A411	Advanced Sculpture	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A311. Stacked with: ART A211 and ART A311. Special Fees. Special Note: May be repeated for credit. Advanced exploration of sculptural concepts and processes with emphasis given to the aesthetics and history of contemporary sculpture. Continued development of construction skills with access to more advanced machine tools and processes including welding.		

ART A412	Advanced Watercolor Painting	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A312. Stacked with: ART A212 and ART A312. Special Fees. Special Note: May be repeated for credit. Individual ideas, experimentation, and techniques in watercolor painting. Emphasizes stylistic consideration, and individual expression; exhibition procedures are included.		
ART A413	Advanced Painting	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A313. Stacked with: ART A213, ART A313, and ART A414. Special Fees. Special Note: May be repeated once for credit. Individual ideas, experimentation, and techniques in painting.		
ART A414	Senior Painting Projects	3 CR
Contact Hours: 0 + 6 Registration Restrictions: 6 credits of ART A413. Stacked with: ART A413. Special Fees. Special Note: May be repeated once for credit. Individualized development of imagery and techniques.		
ART A415	Advanced Printmaking	3 CR
Contact Hours: 0 + 6 Registration Restrictions: 6 credits of ART A315. Stacked with: ART A215 and ART A315. Special Fees. Special Note: May be repeated for credit. Individual development of techniques and creative process. Includes individual portfolio development.		
ART A418	Methods: Art in the Elementary School	3 CR
Contact Hours: 3 + 0 Prerequisites: EDSE A336. Registration Restrictions: All General Education Requirements and admission to the School of Education. Crosslisted with: ED A418. Special Fees. Methods of teaching art principles, procedures and materials for the elementary school level. Explores a wide variety of art media basic to elementary art curricula. Students will be responsible for developing and evaluating curriculum activities.		
ART A424	Advanced Photography	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A324 or JPC A324. Crosslisted with: JPC A424. Special Fees. Special Note: May be repeated for credit. Development of images that reflect individual expression. Provides for individual portfolio development.		
ART A442	Curriculum and Instruction in Secondary Art	3 CR
Contact Hours: 3 + 0 Prerequisites: ED A332 and ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262. Registration Restrictions: Admission to School of Education. Crosslisted with: ED A442. Investigation, practice, and discussion of objectives, scope, sequence, evaluation and related readings dealing with teaching art at the secondary level.		
ART A451	Internship/Graphic Design	1-6 CR
Contact Hours: 0 + 2-12 Registration Restrictions: Faculty permission. Special Note: May be repeated for a maximum of 12 credits. Internship position. Placement is dependent upon interest, expertise, prerequisites, and appropriateness to the position.		
ART A452	Advanced Graphic Design	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A352. Stacked with: ART A352. Special Fees. Special Note: May be repeated for credit. Applied problems in advanced graphic design.		

ART A453	Advanced Illustration	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A353 and ART A356. Stacked with: ART A353. Special Fees. Special Note: May be repeated for credit. Applied problems in advanced illustration.		
ART A471	Advanced Surface Design	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A371. Stacked with: ART A271 and ART A371. Special Note: May be repeated for credit. Development and refinement of individual problems in resist dyeing techniques.		
ART A472	Advanced Fiber Structures	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A372. Stacked with: ART A272 and ART A372. Special Note: May be repeated for credit. Development and refinement of individual problems in fiber structures with an emphasis on personalized imagery and techniques.		
ART A473	Advanced Woven Forms	3 CR
Contact Hours: 0 + 6 Prerequisites: ART A373. Stacked with: ART A273 and ART A373. Special Note: May be repeated for credit. Further development of advanced loom weaving techniques and refinement of personal imagery and problems related to approaches to fiber art.		
ART A495	Practicum	1-6 CR
Contact Hours: 0-2 + 0-12 Registration Restrictions: Minimum of 3 credits of 400-level course work in selected content area and approval of area coordinator. Special Note: A total of 6 credits may be applied toward a BA or BFA in Art degree. Management and operation of art related environment for advanced students seeking a career in the arts. Provides marketable skills in material and building organization, mechanical operation, and operative student dynamics within a functioning art environment.		
ART A498	Individual Research	1-6 CR
Contact Hours: 0-2 + 0-12 Registration Restrictions: Minimum of 6 credits of upper-division course work in selected content area and approval of area coordinator. Special Fees. Special Note: A total of 6 credits may be applied toward a BA or BFA in Art degree. May be repeated twice for credit in any content area. Individual art research focusing on professional development, conceptual growth and awareness, critical thinking, and/or advanced technical proficiency.		
ART A499	Thesis	3 CR
Contact Hours: 0 + 6 Registration Restrictions: Permission of BFA committee. Grade Mode: Pass/No Pass. Special Note: May be repeated for a maximum of 6 credits. One person exhibition.		

APPLIED STATISTICS - AS

*Offered through the College of Arts and Sciences
Social Sciences Building (SSB), Room 154, 786-1742
www.math.uaa.alaska.edu*

AS A252	Elementary Statistics	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 grade of C or higher or Math Placement Test is required. Course Attributes: UAA GER Quantitative Skills Requirement. Special Fees. Special Note: A student may apply no more than 3 credits from AS A252 or BA A273 toward the graduation requirements for a baccalaureate degree. Measurement, sampling, measures of central tendency, dispersion, position, frequency distributions, regression and correlation, probability, binomial and normal distributions, estimation, hypothesis testing, t-test, Chi-square, and F-distributions.		

AS A253	Applied Statistics for the Sciences	4 CR
Contact Hours: 4 + 0 Prerequisites: MATH A107 or MATH A109. Special Fees. Special Note: May not be used to satisfy the University Quantitative Skills General Education Requirement. Intensive survey course covering discrete data analysis, probability, random variables, sampling distributions, confidence intervals, hypothesis testing, one way and two way analysis of variance, simple regression, and other topics as time permits. A major statistical package is introduced and used for problem solving.		
AS 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 Skills Requirement. Probability, applied combinatorics, random variables, multivariate random variables, discrete distributions, continuous distributions, expectations, and estimation.		
AS A308	Intermediate Statistics	3 CR
Contact Hours: 3 + 0 Prerequisites: AS A252 or AS A307. Special Fees. Introduction to statistical experimentation and research methods. Contingency tables and Chi-square tests of association and independence. Introduction to analysis of variance (ANOVA); one-way and two-way factorial designs. Multiple regression and correlation. Introduction to nonparametric methods including sign test, runs test, Mann-Whitney U-test, etc. A major statistical package is used as a tool to aid calculations required for many of the techniques. Each student is expected to complete a research project as part of the course requirement.		
AS A400	Selected Topics in Statistics	3 CR
Contact Hours: 3 + 0 Prerequisites: AS A252 or AS A307. Special Fees. Special Note: Check schedules for specific offerings. Topics in statistics including quality control, operations research, robust statistics, stochastic process, game theory, spectral analysis, Fourier analysis, and statistical packages.		
AS A402	Scientific Sampling	3 CR
Contact Hours: 3 + 0 Prerequisites: AS A252 or AS 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.		
AS A403	Regression Analysis	3 CR
Contact Hours: 3 + 0 Prerequisites: AS 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 package is used as a tool to aid calculations required for many of the techniques.		
AS A404	Analysis of Variance	3 CR
Contact Hours: 3 + 0 Prerequisites: AS 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 package is used as a tool to aid calculations required for many of the techniques.		
AS A405	Nonparametric Statistics	3 CR
Contact Hours: 3 + 0 Prerequisites: AS 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, and rank correlation. Kolmogorov-Smirnov type tests. A major statistical package is used as a tool to aid calculations required for many of the techniques.		

AS A407	Time Series Analysis	3 CR
Contact Hours: 3 + 0 Prerequisites: AS A307. Special Fees.		
Decomposition of time series, seasonal adjustment methods, and index numbers. Forecasting models including causal models, trend models, and smoothing models. Autoregressive (AR) forecasting models, moving average (MA) forecasting models, and integrated (ARIMA) forecasting models. A major statistical package is used as a tool to aid calculations required for many of the techniques.		
AS A408	Multivariate Analysis	3 CR
Contact Hours: 3 + 0 Prerequisites: AS 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 package is used as a tool to aid calculations required for many of the techniques.		
AS A601	Statistical Methods	3 CR
Contact Hours: 3 + 0 Prerequisites: AS A252. Special Fees.		
Introduction to statistical experimentation and research methods, measurement, sampling, measures of central tendency, dispersion, regression and correlation, hypothesis testing, contingency tables and Chi-square tests, ANOVA, multiple regression, and nonparametric methods. A major statistical package is used as a tool to aid calculations required for many of the techniques. A research project is required from each student as part of the course requirement.		
AMERICAN SIGN LANGUAGE - ASL		
<i>Offered through the College of Arts and Sciences Administration/Humanities Building (ADM), Suite 287, 786-4030 http://language.uaa.alaska.edu/</i>		
ASL A101	Elementary American Sign Language I	3 CR
Contact Hours: 3 + 0 Course Attributes: UAA GER Humanities Requirement. Special Fees.		
Introduction to American Sign Language for beginners with no such prior knowledge. This course emphasizes receptive comprehension, sign production, and everyday vocabulary. Students are also introduced to basic grammatical and sentence structures, and to the Deaf community and culture.		
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 ASL A101, designed for students able to comprehend and initiate very basic conversations on everyday topics. Students gain confidence in asking and answering questions, learn to sustain modest conversations, increase their vocabulary and knowledge of grammatical and sentence structures, and deepen their understanding of Deaf community and culture.		
ASL A201	Intermediate American Sign Language I	3 CR
Contact Hours: 3 + 0 Prerequisites: ASL A102. Course Attributes: UAA GER Humanities Requirement. Special Fees.		
Development of receptive and expressive proficiency, with continued emphasis on purposeful communication. Students gain greater confidence in producing signed discourse, become more adept at creating with the language, and begin to sustain extended conversation. Grammatical structures are examined more in-depth, and a wider range of current topics is introduced.		
ASL A202	Intermediate American Sign Language II	3 CR
Contact Hours: 3 + 0 Prerequisites: ASL A201. Course Attributes: UAA GER Humanities Requirement. Special Fees.		
For students able to communicate in American Sign Language on a variety of everyday topics. Continued learning of vocabulary-building techniques, and strengthening and developing facility with grammatical structures. Cultural understanding will be explored through examination of societal perceptions of deafness.		

ASTRONOMY - ASTR

*Offered through the College of Arts and Sciences
Engineering Building (ENGR), Room 333, 786-1238
<http://hosting.uaa.alaska.edu/afjtp/physics.html>*

ASTR A103	Introductory Astronomy I	4 CR
Contact Hours: 3 + 3 Registration Restrictions: High school algebra and trigonometry or equivalent. Corequisite: ASTR A103L. Course Attributes: UAA GER Natural Sciences. 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; includes laboratory.

ASTR A104	Introductory Astronomy II	4 CR
Contact Hours: 3 + 3 Prerequisites: ASTR A103. Registration Restrictions: May be taken out of sequence, but not recommended. Course Attributes: UAA GER Natural Sciences.		

Introduction to stellar, galactic, extragalactic astronomy. Stars, clusters, galaxies, stellar evolution, the universe as a whole, and cosmology; includes laboratory.

AVIATION TECHNOLOGY - AT

*Offered through the Community & Technical College
Aviation Complex, 2811 Merrill Field Drive, 264-7400
<http://aviation.uaa.alaska.edu/>*

AT A053	Preventive Maintenance for Pilots and Owners	1-4 CR
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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.

AT 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 are also covered.

AT A101	Pre-Professional Flying	2 CR
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Contact Hours: 1 + 2
Registration Restrictions: AT 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.
Beginning flight instruction for students intending to become professional pilots.

AT A102	Introduction to Aviation Technology	3 CR
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Contact Hours: 3 + 0
Introduces all aspects of aviation, including general aviation, airlines, airports, aircraft manufacturing, and government organizations. Emphasizes present and future development, associated impacts, and career opportunities.

AT A104	Alaska Bush Flying	3 CR
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Contact Hours: 3 + 0
Registration Restrictions: Private Pilot Certificate or higher rating.
Specialized instruction and discussion concerning unique flying conditions faced by Alaskan pilots. Basic aerodynamics, mountain flying, skis, floats, wheels, judgment of unimproved landing areas, characteristics of Alaska weather, external loads, airplane performance and limitations. Includes survival techniques.

AT A116	Instrument Ground School	3 CR
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Contact Hours: 3 + 0
Registration Restrictions: Private Pilot Certificate or AT A100.
Special Fees.
Special Note: Two hours in Flight Training Device required.
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.

AT A126	Instrument Flying	2 CR
Contact Hours: 1 + 2		
Prerequisites: AT A101 and (AT A116 or concurrent enrollment).		
Registration Restrictions: Department approval required.		
Special Fees.		
Special Note: Open-entry, open-exit. Eight hours in Frasca 146 and four hours in Frasca 242 Flight Training Device required.		
Fulfills FAA flight training requirements for an instrument airplane rating under FAR Part 141.		
AT A132	History of Aviation	3 CR
Contact Hours: 3 + 0		
Traces aviation history with particular emphasis on manned-powered flight. Emphasizes the Golden Age of Flight (1900–1945) and the Jet Age (1945–Present).		
AT A133	Aviation Law and Regulations	3 CR
Contact Hours: 3 + 0		
History of laws influencing aviation. Case studies of aviation litigation. Organization, authority, responsibility, and functions of department of transportation, FAA, and Civil Aeronautics Board.		
AT A134	Principles of Aviation Administration	3 CR
Contact Hours: 3 + 0		
Introduction to business administration in general, airline, and manufacturing segments of aviation industry. Emphasis on theories of corporate organization and management. Future trends in aviation administration.		
AT A143	ATC Regulations	3 CR
Contact Hours: 3 + 0		
Special Note: Open-entry, open exit.		
Applies Federal Aviation Regulations to the air traffic control system. Introduces regulations governing the operation of air traffic control specialist within the Federal system.		
AT A144	ATC Flight Procedures	3 CR
Contact Hours: 3 + 0		
Special Fees.		
Special Note: 1. One hour in Flight Training Device required. 2. Open-entry, open exit. Provides a basic understanding of the various methods of navigation. Develops the confidence to provide assistance and the proper reaction to various situations in air traffic control.		
AT A147	Pilot/Controller Techniques	3 CR
Contact Hours: 3 + 0		
Prerequisites: AT A143.		
Special Note: Open entry, open exit		
Examines methods of airport, as well as aeronautical lighting and other visual aids, such as airports 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.		
AT A170	ACFT Ground Operations and Safety	1 CR
Contact Hours: 1 + 0		
Registration Restrictions: Formal acceptance into AMT certificate or degree program.		
Special Fees.		
Covers 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.		
AT A171	Basic Aerodynamics	3 CR
Contact Hours: 3 + 0		
Prerequisites: (AT A170 or concurrent enrollment).		
Registration Restrictions: Formal acceptance into AMT certificate or degree program.		
Deals with 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.		
AT A172	Publications, Regulations and Records	3 CR
Contact Hours: 3 + 0		
Prerequisites: (AT A170 or concurrent enrollment).		
Registration Restrictions: Formal acceptance into AMT certificate or degree program.		
Covers 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.		

AT A173	ACFT Electrical Hardware	3 CR
Contact Hours: 2 + 2		
Prerequisites: (AT A170 or concurrent enrollment) and (AT A172 or concurrent enrollment) and (AT A174 or concurrent enrollment) and (AT A174L or concurrent enrollment) and (PHYS A110 or concurrent enrollment).		
Special Fees.		
Identifies and explains the use, operation and servicing of aircraft electrical components such as switches, relays, fuses, other circuit protection devices, wires, and connectors. Installation, testing, inspection and troubleshooting of these components is also covered.		
AT A174	ACFT DC Electrical Systems	3 CR
Contact Hours: 3 + 0		
Prerequisites: MATH A055 and (AT A170 or concurrent enrollment).		
Corequisite: AT A174L.		
Covers derivation and application of basic DC electrical concepts, definitions and laws. Introduces passive electrical components, schematic symbols and electrical wiring diagrams, and covers applications of DC electrical concepts to aircraft batteries and power generation and distribution systems.		
AT A174L	ACFT DC Electrical Systems Lab	1 CR
Contact Hours: 0 + 3		
Prerequisites: MATH A055 and (AT A170 or concurrent enrollment).		
Corequisite: AT A174.		
Special Fees.		
Deals with the methods of safe and accurate measurement of DC electrical quantities using basic electrical test equipment. Connecting, testing, and operating a variety of circuit components, troubleshooting defective components, observing the characteristics of electrical components in test circuits, and wiring circuits from schematic diagrams. Installation, operation, testing and servicing of aircraft batteries and DC power generation and distribution systems is also covered.		
AT A175	Drawing and Precision Measurement	2 CR
Contact Hours: 2 + 0		
Prerequisites: (AT A170 or concurrent enrollment).		
Registration Restrictions: Formal acceptance into AMT certificate or degree program.		
Covers the theory and techniques involved in making and reading aircraft drawings and blueprints, along with precision measurement and use of blueprint information.		
AT A176	ACFT Materials and Processes I	2 CR
Contact Hours: 2 + 2		
Prerequisites: (AT A170 or concurrent enrollment).		
Special Fees.		
Covers aircraft cleaning, corrosion control, materials, and hardware; the selection of appropriate cleaning chemicals and processes; identification, selection and installation of aircraft hardware; and performance of aircraft processes such as heat treating and hardness testing.		
AT A177	Recip Engine Theory	2 CR
Contact Hours: 2 + 0		
Prerequisites: (PHYS A110 or concurrent enrollment) and (AT A170 or concurrent enrollment).		
Introduces the theory of operation and construction of the internal combustion engine. Includes combustion processes, design rationale, cooling and lubrication of internal combustion reciprocating engines.		
AT A178	Turbine Engine Theory	2 CR
Contact Hours: 2 + 0		
Prerequisites: (PHYS A110 or concurrent enrollment) and (AT A170 or concurrent enrollment).		
Covers the construction and operation of turbine engines. Thrust development and design and environmental factors that influence thrust, along with construction details from inlet to exhaust are covered for representative aircraft turbine engines.		
AT A181	Fuel Systems	3 CR
Contact Hours: 3 + 0		
Prerequisites: AT A176 and AT A177 and AT A178.		
Corequisite: AT A181L.		
Covers aircraft fuels, fuel/air mixtures, basic fuel systems and fuel metering devices. Applications of fuels and metering systems to aircraft and components of complex aircraft systems, such as tanks, valves, fuel lines, carburetors, fuel injection systems, turbo-chargers, and superchargers are included.		
AT A181L	Fuel Systems Lab	1 CR
Contact Hours: 0 + 3		
Prerequisites: AT A176 and AT A177 and AT A178.		
Corequisite: AT A181.		
Special Fees.		
Covers identification, handling, inspection, servicing and troubleshooting aircraft fuels, basic fuel systems and fuel metering devices, including complex aircraft systems, tanks, valves, fuel lines, carburetors, fuel injection systems, turbo-chargers, and superchargers.		

AT A183 ACFT Electrical Machinery 2 CR

Contact Hours: 2 + 0

Prerequisites: AT A173 and AT A174 and AT A174L and AT A175 and (AT A183L or concurrent enrollment) and (AT A184 or concurrent enrollment) and (AT A184L or concurrent enrollment).

Identifies and explains the construction, inspection, operation and servicing of aircraft electrical components such as electric motors, generators, alternators, voltage controls, magnetos and ignition system components.

AT A183L ACFT Electrical Machinery Lab 1 CR

Contact Hours: 0 + 2

Prerequisites: AT A173 and AT A174 and AT A174L and AT A175 and (AT A183 or concurrent enrollment) and (AT A184 or concurrent enrollment) and (AT A184L or concurrent enrollment).

Special Fees.

Covers inspection, servicing, operation and testing of aircraft electrical components such as electric motors, DC generators, DC alternators, AC alternators, voltage regulators, reverse current relays, generator and alternator protection devices, magnetos and ignition system components.

AT A184 ACFT AC Electrical Systems 3 CR

Contact Hours: 3 + 0

Prerequisites: AT A174 and AT A174L and PHYS A110.

Corequisite: AT A184L.

Covers theory and application of basic concepts, definitions and laws governing circuits powered by an alternating current source. Includes AC waveforms, sources, components and circuits, electrical wiring diagrams, schematic symbols, and analysis of AC power generation and distribution systems used on aircraft.

AT A184L ACFT AC Electrical Systems Lab 1 CR

Contact Hours: 0 + 3

Prerequisites: AT A174 and AT A174L and PHYS A110.

Corequisite: AT A184.

Special Fees.

Covers measurement of AC electrical quantities with basic electrical test equipment. Includes connecting, testing and operating a variety of AC circuits, troubleshooting defective components, wiring circuits according to schematic diagrams and analyzing the measurements taken.

AT A185 Sheet Metal Structures 3 CR

Contact Hours: 3 + 0

Prerequisites: (AT A170 or concurrent enrollment).

Registration Restrictions: Formal acceptance into AMT certificate or degree program.

Corequisite: AT A185L.

Introduces sheet metal, its properties and uses in fabrication of structural and nonstructural components of aerospace vehicles. Inspection techniques are addressed along with fabrication and repair processes of bending, cutting, forming, drilling, and riveting aluminum sheet metal parts.

AT A185L Sheet Metal Structures Lab 2 CR

Contact Hours: 0 + 5

Prerequisites: (AT A170 or concurrent enrollment).

Registration Restrictions: Formal acceptance into AMT certificate or degree program.

Corequisite: AT A185.

Special Fees.

Covers inspection, fabrication and repair of aircraft sheet metal structures including the processes of bending, cutting, forming, drilling and riveting aluminum sheet metal parts.

AT A186 Non-Destructive Inspection Methods 3 CR

Contact Hours: 2 + 2

Prerequisites: AT A176.

Special Fees.

Covers selection and use of appropriate non-destructive testing methods commonly employed in the aircraft industry such as visual, dye penetrant, magnetic particle, eddy current and ultrasound.

AT A187 Recip Engine Overhaul 3 CR

Contact Hours: 3 + 0

Prerequisites: AT A172 and AT A175 and AT A177 and (AT A186 or concurrent enrollment).

Corequisite: AT A187L.

Covers the overhaul practices for aircraft internal combustion engines. Includes disassembly, cleaning, non-destructive testing, measurement, lubrication, and assembly of engines.

AT A187L Recip Engine Overhaul Lab 2 CR

Contact Hours: 0 + 5

Prerequisites: AT A172 and AT A175 and AT A177 and (AT A186 or concurrent enrollment) .

Corequisite: AT A187.

Special Fees.

Provides practice in the performance of overhaul of aircraft internal combustion engine. Includes disassembly, cleaning, non-destructive testing, measurement, lubrication and assembly of internal combustion engines.

AT A200 Commercial Ground School 3 CR

Contact Hours: 3 + 0

Prerequisites: AT A116.

Special Fees.

Special Note: Two hours in Flight Training Device required.

Preparation for FAA Commercial Pilot Knowledge Test. Includes advanced studies in topics presented in AT A100 and AT A116, high performance and complex aircraft, commercial flight maneuvers, and commercial Federal Aviation Regulations.

AT A218 Commercial Flying I 1.5 CR

Contact Hours: 1 + 1

Prerequisites: AT A126 and (AT A200 or concurrent enrollment).

Registration Restrictions: Department approval required.

Special Fees.

Special Note: Open-entry, open-exit.

Flight training to review basic private pilot maneuvers and to introduce the advanced flight maneuvers required of a commercial pilot.

AT A219 Commercial Flying II 1.5 CR

Contact Hours: 1 + 1

Prerequisites: AT A218.

Registration Restrictions: Department approval required.

Special Fees.

Special Note: Open-entry, open-exit.

Flight training to build proficiency and experience in cross-country flying and night operations. Includes introduction to complex airplanes.

AT A220 Commercial Flying III 2 CR

Contact Hours: 1 + 2

Prerequisites: AT A219.

Registration Restrictions: Department approval required.

Special Fees.

Special Note: Open-entry, open-exit.

Develops proficiency required to pass the FAA Commercial Pilot Practical Flight Test.

AT A231 Search, Survival, and Rescue 3 CR

Contact Hours: 3 + 3

Prerequisites: AT 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. Organizations for search and rescue with emphasis on systems and operational methods used in Alaska.

AT A232 Aviation Navigation 3 CR

Contact Hours: 3 + 0

Prerequisites: AT A100.

Registration Restrictions: Private Pilot Certificate or higher rating.

Earth's surface and mapping, aeronautical charts, fundamentals of navigation, navigational calculations and theory, and operation of ground and airborne navigational equipment. Future trends in navigation. Review for certified pilots.

AT A233 Aviation Safety 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Basic knowledge of aviation terminology.

Survey of aviation safety to identify primary causes of aviation accidents. Develops and evaluates safety programs. Roles of national transportation safety board and other agencies. Future concepts in aviation safety.

AT A235 Elements of Weather 3 CR

Contact Hours: 3 + 0

Definitions of weather elements and methods of measurement. Composition of atmosphere, description of atmospheric processes and their movement, general circulation of atmosphere, wind and secondary circulation, weather forecasts, and weather satellites.

AT A240 Operations in Flight Service Station 3 CR

Contact Hours: 3 + 0

Prerequisites: AT A143 and AT A235.

Examines fundamentals of weather observation, use of FAA publications in flight planning, phraseologies, and radio frequencies used in air-ground communications. Writes and decodes civil Notice to Airmen (NOTAMS) and operating positions in Flight Service Stations.

AT A241 Control Tower Operations 3 CR

Contact Hours: 3 + 0

Prerequisites: AT A143 and AT 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.

AT A241L Control Tower Operation Lab 1 CR

Contact Hours: 0 + 2

Corequisite: AT A241.

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.

AT A242 ATC Terminal Radar Procedures 3 CR

Contact Hours: 3 + 0

Prerequisites: AT A143 and AT A144 and AT A235.

Explores radar theory fundamentals and system operation in air traffic control. Examines procedures of instrument traffic control in the terminal radar environment.

AT A242L ATC Terminal Radar Procedures Lab 1 CR

Contact Hours: 0 + 2

Corequisite: AT A242.

Grade Mode: Pass/No Pass.

Special Fees.

Employs hands-on time in radar laboratory simulators to develop techniques for the separation, vectoring and speed control of air traffic in a terminal radar environment.

AT A243 ATC Enroute Procedures 3 CR

Contact Hours: 3 + 0

Explores procedures of instrument traffic control in the non-radar environment. Develops longitudinal, vertical, and lateral separation of air traffic. Includes lab scenarios designed to develop routine problem solving processes to adapt the student controller to real life ATC situations.

AT A243L ATC Enroute Procedures Lab 1 CR

Contact Hours: 0 + 2

Corequisite: AT A243.

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 controlled to real life ATC situations.

AT A272 Aircraft Covering and Finishing 4 CR

Contact Hours: 2 + 6

Grade Mode: Pass/No Pass.

Special Fees.

Identification and application of aircraft fabrics and finishing materials. Approximately 80 percent of class time spent in lab. Students inspect, test, and repair aircraft fabrics, install fabric, and apply appropriate finishing materials to aircraft structures, wings, and flight control surfaces.

AT A273 Fluid Power Systems 3 CR

Contact Hours: 3 + 0

Prerequisites: AT A171 and AT A172 and AT A183 and AT A183L and AT A184 and AT A184L and AT A186.

Corequisite: AT A273L.

Introduces fluid power system basics of pressure, force, area, volume, flow and speed, and applications of fluid power to aircraft. Areas covered include fluids, seals, hoses, tubing, connections, component, identification and function, inspection, installation, and overhaul. System operation, inspection and troubleshooting are covered for hydraulic, pneumatic, and landing gear systems.

AT A273L Fluid Power Systems Lab 2 CR

Contact Hours: 0 + 5

Prerequisites: AT A171 and AT A172 and AT A183 and AT A183L and AT A184 and AT A184L and AT A186.

Corequisite: AT A273.

Special Fees.

Covers identification, installation, operation and servicing of fluid power systems and components such as fluids, seals, hoses, tubing, connections, pumps, valves, regulators, filters, reservoirs and actuators. Practice in system operation, inspection and troubleshooting are included for hydraulic, pneumatic, and landing gear systems.

AT A274 ACFT Electronic Systems 5 CR

Contact Hours: 5 + 0

Prerequisites: AT A183 and AT A183L and AT A184 and AT A184L.

Corequisite: AT A274L.

Covers the use of mechanical and electrical systems in sensing, communicating and displaying information, along with solid state and digital devices, sensors and special circuits used in instrumentation systems on aircraft.

AT A274L ACFT Electronic Systems Lab 1 CR

Contact Hours: 0 + 3

Prerequisites: AT A183 and AT A183L and AT A184 and AT A184L.

Corequisite: AT A274.

Special Fees.

Provides practice in creating, operating, testing and analyzing solid state and digital devices, sensors and special circuits used in instrumentation systems and the mechanical and electrical systems used in sensing, communicating and displaying information in aircraft.

AT A276 Propeller Systems 1 CR

Contact Hours: 1 + 1

Prerequisites: AT A171 and AT A172 and AT A175 and AT A177 and AT A178.

Special Fees.

Covers the installation, operation, performance testing and troubleshooting of aircraft propeller systems.

AT A277 Recip Engine Installation and Operations 3 CR

Contact Hours: 3 + 0

Prerequisites: AT A171 and AT A181 and AT A181L and AT A183 and AT A183L and AT A187 and AT A187L.

Corequisite: AT A277L.

Covers the installation, operation, performance testing and troubleshooting of aircraft reciprocating engines.

AT A277L Recip Engine Installation and Operations Lab 2 CR

Contact Hours: 0 + 5

Prerequisites: AT A171 and AT A181 and AT A181L and AT A183 and AT A183L and AT A187 and AT A187L.

Corequisite: AT A277.

Special Fees.

Provides practice in the installation, operation, performance testing and troubleshooting of aircraft reciprocating engines.

AT A279 Turbine Engine Repair and Overhaul 3 CR

Contact Hours: 3 + 0

Prerequisites: AT A172 and AT A175 and AT A181 and AT A181L and AT A186.

Corequisite: AT A279L.

Covers construction details of turbine engines from inlet to exhaust along with support systems, operational characteristics and repair and overhaul practices for typical engines.

AT A279L Turbine Engine Repair and Overhaul Lab 1 CR

Contact Hours: 0 + 3

Prerequisites: AT A172 and AT A175 and AT A181 and AT A181L and AT A186.

Corequisite: AT A279.

Special Fees.

Covers practice involved in the disassembly, assembly, inspection and repair of aircraft turbine engines. The proper use of technical data, appropriate tools and inspection devices is stressed along with special safety procedures related to the servicing, operation and repair of turbine engines.

AT A281 Aviation Maintenance: Airframe and Powerplant Mechanic 3 CR

Contact Hours: 2 + 2

Registration Restrictions: Approved FAA Airman Certificate and/or Rating Application FAA Form 8610-2.

Provides advanced work in aviation maintenance records; expands on principles of airframe materials, systems and procedures; and explores powerplant operations and troubleshooting.

AT A283 ACFT Auxiliary Systems 3 CR

Contact Hours: 3 + 0

Prerequisites: AT A177 and AT A178 and AT A274 and AT A274L.

Corequisite: AT A283L.

Covers operation, maintenance servicing, inspection and troubleshooting of auxiliary systems on aircraft. These include environmental control systems (heat, air-conditioning, pressurization, oxygen), ice and rain control systems, fire protection and associated indicating and warning systems.

AT A283L ACFT Auxiliary Systems Lab 1 CR

Contact Hours: 0 + 3

Prerequisites: AT A177 and AT A178 and AT A274 and AT A274L.

Corequisite: AT A283.

Special Fees.

Covers operation, maintenance servicing, inspection and troubleshooting of auxiliary systems on aircraft including environmental control systems (heat, air-conditioning, pressurization, oxygen), ice and rain control systems, fire protection and associated indicating and warning systems. Practice is provided in operating, servicing, and troubleshooting systems using system schematics, wiring diagrams and maintenance information.

AT A285	Bonded Structures	4 CR
Contact Hours: 4 + 0 Prerequisites: (AT A170 or concurrent enrollment). Corequisite: AT A285L. Covers the theory of and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.		
AT A285L	Bonded Structures Lab	1 CR
Contact Hours: 0 + 4 Prerequisites: (AT A170 or concurrent enrollment). Corequisite: AT A285. Special Fees. Provides practice in the fabrication, inspection and repair of bonded structures including plastics, fabric covering, honeycomb structures, and advanced composite structures, and painting.		
AT A286	ACFT Materials and Processes II	2 CR
Contact Hours: 1 + 2 Prerequisites: AT A172 and AT A176. Special Fees. Covers theory of and techniques used in the repair of aircraft steel structures, and certain aluminum, magnesium and titanium components.		
AT A289	Turbine Engine Installation and Operations	2 CR
Contact Hours: 2 + 0 Prerequisites: AT A183 and AT A183L and AT A276 and AT A279 and AT A279L. Corequisite: AT A289L. Covers the installation, operation, performance testing and troubleshooting of aircraft turbine engines.		
AT A289L	Turbine Engine Installation and Operations Lab	2 CR
Contact Hours: 0 + 4 Prerequisites: AT A183 and AT A183L and AT A276 and AT A279 and AT A279L. Corequisite: AT A289. Special Fees. Provides practice in the installation, operation, performance testing and troubleshooting of aircraft turbine engines.		
AT A290	Selected Topics in Aviation Technology	1-6 CR
Contact Hours: 0-6 + 0-12 Registration Restrictions: Department permission required. Special Fees. Provides 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 identification, summarization, and application of current technical information by theoretical and/or experiential learning.		
AT A295	Aviation Internship I	1-3 CR
Contact Hours: 0 + 5-15 Registration Restrictions: Grade of C or better in 12 credits of Aviation Technology (AT) classes. Proof of accident insurance required. Special Note: Students must apply to the Aviation Technology Division to arrange for industry placement prior to course enrollment. Places students in generalized aviation related work activities for purpose of introducing the students to the aviation industry. Direct supervision by aviation industry professionals and program faculty.		
AT A300	CFI Ground School	3 CR
Contact Hours: 3 + 0 Registration Restrictions: AT A200 or Commercial Pilot Certificate with Instrument Rating. Prepares students for the FAA Certified Flight Instructor Knowledge Test. Includes principles of teaching, and learning, analysis of student motivation, flight training syllabus, and the flight instructor's role and responsibility. Covers performance and analysis of flight training maneuvers, advanced aerodynamics, fundamentals of instrument flight, flight training publications, and Federal Aviation Regulations.		
AT A301	CFI Flying	2 CR
Contact Hours: 1 + 2 Prerequisites: AT A220 and (AT A300 or concurrent enrollment). Registration Restrictions: Must hold a Commercial Pilot Certificate with Instrument Rating. Faculty permission required. Special Fees. Special Note: Open-Entry; Open Exit; One hour in Frasca Flight Training Device required. Fulfills FAA flight training requirements for obtaining a Certified Flight Instructor Certificate under FAR Part 141.		

AT A305	Additional Aircraft Rating	2 CR
Contact Hours: 1 + 2 Prerequisites: (AT A220 or concurrent enrollment). Registration Restrictions: Faculty permission required. Special Note: Open entry-open exit. May be repeated once for credit. Provides flight instruction for Professional Piloting students seeking additional ratings on their pilot certificates, e.g. Float, Multi-engine, or Type rating. Course completion requires awarding of rating sought.		
AT A325	Tools for Weather Briefing	3 CR
Contact Hours: 3 + 0 Prerequisites: AT A235. 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 cause and effect. Qualifying Air Traffic Control majors may receive Weather Observer Certification upon successful completion of Federal Aviation Administration knowledge exams.		
AT A331	Human Factors in Aviation	3 CR
Contact Hours: 3 + 0 Registration Restrictions: AAS in aviation field or advanced airman certificate. Students will become familiar with the following aspects of human factors: the meaning of human factors, human error, fatigue, body rhythms and sleep, fitness and performance, vision and visual illusions, motivation and leadership. Communication: language and speech, attitudes and persuasion, training and training devices, documentation, displays and controls, space and layout, the aircraft cabin and its human payload.		
AT A332	Transport Aircraft Systems	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Certificate, degree or professional experience in piloting, maintenance, administration, or air traffic control. 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.		
AT A335	Airport Operations	3 CR
Contact Hours: 3 + 0 Prerequisites: AT A102 and AT A134. Class Standing Restriction: Must be Junior. Examines the management and operations of civil airports. Emphasizes master planning, Federal Aviation Regulations (FAR'S) dealing with airport operations; environmental issues; land use planning; airport capacity delay and access factors; economics impacts; financial analyses and budgeting systems; security; liability; maintenance; professional qualification; and relations.		
AT A336	Air Service Operations	3 CR
Contact Hours: 3 + 0 Prerequisites: AT A120 and AT A134. Class Standing Restriction: Must be Junior. Assesses functions and future trends of air service operations. Analyzes organizations, financing, revenues, and expenses, construction, expansion, safety, and relations with local agencies including airport management.		
AT A337	Airline Operations	3 CR
Contact Hours: 3 + 0 Prerequisites: AT A102 and AT A134. Class Standing Restriction: Must be Junior. Analyzes airline organization and management including classifications, management methods, governmental relationships, and financial positions. Examines airline operations, market research, demand determination, and effects of FAA regulations.		
AT A340	Terminal Instrument Procedures	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A272. Special Fees. Evaluates the criteria used to formulate, review, approve, and publish procedures for instrument approach and departure of aircraft to and from civil and military airports.		
AT A362	Aerodynamics and Flight Performance	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A107 and PHYS A123. Applies principles of the following aspects of aerodynamics and flight performance: low and high speed aerodynamics, airplane performance, stability and control, and operating strength limitations.		
AT A364	Avionics Systems	3 CR
Contact Hours: 3 + 0 Prerequisites: ET A128 or [AT A274 and AT A274L]. Covers the fundamentals of design, installation, operation, testing and maintenance of airborne communication, navigation, instrument, and auto flight systems.		

AT A400 ATP Ground School 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Must hold a Commercial Pilot Certificate with Instrument Rating 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 forecast, and applicable FARs.

AT A401 ATP Flying 2 CR

Contact Hours: 1 + 2

Prerequisites: (AT A400 or concurrent enrollment).

Registration Restrictions: Must hold a Commercial Pilot Certificate with Instrument Rating and comply with FAR Part 61.159. Faculty permission required.

Special Fees.

Special Note: Open entry-open exit. Three hours in Frasca 242 Flight Training Device required.

Fulfills FAA flight training requirements for obtaining an Airline Transport Pilot Certificate under FAR Part 141.

AT A405 Additional CFI Rating 2 CR

Contact Hours: 1 + 2

Registration Restrictions: Certified Flight Instructor Certificate required. Faculty permission required.

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. Course completion requires awarding of rating sought.

AT A415 Company Resource Management 3 CR

Contact Hours: 3 + 0

Prerequisites: AT A331.

Examines Company Resource Management(CRM) principles and programs in various aviation employment settings such as piloting, air traffic control, management, and aviation maintenance. Evaluates human perceptions and the decision-making process in the aviation environment to develop CRM training programs applicable in various aviation employment settings.

AT A420 Air Transportation System 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Upper Division Standing

Evaluates historical development and analyzes selected contemporary issues, problems, and trends facing the air transportation industry. Includes regulators and associations, the makeup of commercial and general aviation air transportation, and international aviation.

AT A431 Aircraft Accident Investigation 3 CR

Contact Hours: 3 + 0

Prerequisites: AT A233 and AT A331.

Special Fees.

Provides a comparative examination of elements and issues used in a field and laboratory investigation of an aircraft accident. The focus will be the application of relevant course material to research, discover, and analyze facts used to determine the probable cause of an aircraft accident and develop corrective action to prevent recurrence.

AT A440 Facility Operation and Administration 3 CR

Contact Hours: 3 + 0

Prerequisites: BA A361 and BA A461.

An air traffic control capstone course which emphasizes effective operation and administration of air traffic service (ATS) facilities and conflict resolution between FAA instructions and the term of a labor union contract. Evaluates current issues and events and their potential impact on the National Airspace System.

AT A490 Advanced Topics in Aviation Technology 1-6 CR

Contact Hours: 0-6 + 0-12

Registration Restrictions: Department permission required.

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 analysis, evaluation, and synthesis.

AT A495 Aviation Internship II 1-3 CR

Contact Hours: 0 + 5-15

Registration Restrictions: Grade of C or better in 12 credits of upper division courses, six of which must be aviation technology (AT) credit hours. Proof of accident insurance required.

Special Note: Students must apply to the Aviation Technology Division to arrange for industry placement prior to course enrollment.

Places students in specialized aviation related work experiences pertinent to educational program and future employment objectives, overseen by aviation industry professionals and program faculty. Complete a major industry project specific to the student's area of scholastic preparation.

BUSINESS ADMINISTRATION - BA

*Offered through the College of Business & Public Policy
Business Education Building (BEB), Room 309, 786-4100
www.cbpp.uaa.alaska.edu*

Students taking any ACCT, BA, CIS, ECON, 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 annotated. Does not apply to Eagle River.

BA A101 Introduction to Management 3 CR

Contact Hours: 3 + 0

Entry level survey of development of management theory. Techniques associated with core managerial functions such as planning, organizing, actuating, and controlling. Selected management concepts and models viewed within organizational settings.

BA A131 Personal Finance 3 CR

Contact Hours: 3 + 0

Special Note: Offered Fall and Spring Semesters.

Introduces consumer financial issues. Surveys variety of topics, including personal income, home mortgages, credit laws, income tax, family budgeting, insurance, estate planning, investments in stocks, bonds, insurance, and mutual funds, transportation, leisure and recreation costs, consumer fraud and laws protecting consumer.

BA A151 Introduction to Business 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Social Sciences Requirement.

Special Note: Offered Fall and Spring Semesters.

Students understand profit in business, issues of social responsibility, and forms of business ownership. Roles of management in specialized fields of human resources, finance, production and marketing. Students explore opportunities and requirements in several business positions as well as assess personal interests and capabilities.

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

Special Note: Offered Fall and Spring Semesters.

Business planning as key to successful small business management. Examines practical aspects of management for starting/operating small businesses. Assists students in understanding personal finance, business regulations, marketing, production, and business finance.

BA A231 Fundamentals of Supervision 3 CR

Contact Hours: 3 + 0

Special Note: Offered Fall and Spring Semesters.

For students with or without supervisory experience. Introduction to effective supervisor's role. Emphasizes development of insights and skills necessary to get things done through others by planning, organizing, motivating, and controlling. Practical experience in decision making approach to condemnatory situations facing supervisors.

BA A232 Fundamentals of Organizational Management 3 CR

Contact Hours: 3 + 0

Prerequisites: BA A231.

Special Fees.

Special Note: Offered as Demand Warrants.

Discusses leadership styles of managers and skills necessary to effectively lead organizations. Explores literature in motivation and leadership for practical implications. Students analyze organizational case studies.

BA A233 Fundamentals of Financial Management 3 CR

Contact Hours: 3 + 0

Prerequisites: [ACCT A101 or ACCT A201] and MATH A105.

Special Note: Offered as Demand Warrants.

Helps students develop financial decision making skills. Includes financial statement analysis, cash flow planning, capital asset expenditures planning, 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.

Introduces legal aspects of business activities. Emphasizes basic principles, institutions, and administration of law in contracts, employment, torts, property, agency, real estate, and insurance.

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.
 Special Note: Offered Fall and Spring Semesters.

Designed to give students a real-world view of basic marketing principles and practices. Emphasizes planning strategy and application of marketing concepts. Examines nature of marketing and its environment, selecting target markets, and developing a market mix: product, price, promotion, and distribution.

BA A263 Practices in Consumer Behavior 3 CR
 Contact Hours: 3 + 0
 Prerequisites: BA A260.
 Special Note: Offered as Demand Warrants.

Provides students with usable understanding of consumer behavior; based on the belief that knowledge of factors influencing consumer behavior can be used to develop sound marketing strategy. Explores motivation, personality, lifestyle, decision making, and the impact of cross-cultural variations on consumer buying behavior.

BA A264 Personal Selling 3 CR
 Contact Hours: 3 + 0
 Special Note: Offered Fall and Spring Semesters.

Designed for people with or without sales experience. Explores skills all individuals use to sell themselves, products, services, and ideas. Includes selling process, buyer behavior, communication, and selling as part of marketing mix.

BA A273 Introduction to Statistics for Business and Economics 3 CR

Contact Hours: 3 + 0
 Prerequisites: CIS A110 and [MATH A107 or MATH A270].
 Special Note: A student may apply no more than 3 credits from AS A252 or BA A273 toward graduation requirements for a baccalaureate degree. Offered Fall and Spring Semesters.

Introduces 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; and 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 Note: May be repeated for credit, but only 3 credits will apply to 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.

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.

Special Note: Offered Fall and Spring Semesters.

Discusses literature of organizational theory; emphasizes theoretical concepts, organizational design, dynamics of formal and informal groups, communication in leadership, organizational development, organizational effectiveness, and social science research techniques.

BA A306 Real Estate Fundamentals (Principles) 3 CR

Contact Hours: 3 + 0

Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Discusses principles of real estate, urban land economics, and governmental aspects of real property ownership and control. Surveys all elements of real estate ownership.

BA A310 Consumer Behavior 3 CR
 Contact Hours: 3 + 0

Prerequisites: BA A343.

Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Special Note: Offered as Demand Warrants.

Consumer-firm relationship is analyzed through the application of concepts drawn from contemporary behavioral science to concrete business cases and practices. Relevant concepts from fields of cultural anthropology, sociology, and psychology are applied to problems encountered in marketing to various consumer groups.

BA A325 Corporate Finance 3 CR

Contact Hours: 3 + 0

Prerequisites: ACCT A201 and ACCT A202 and ECON A201 and ECON A202 and BA A273.

Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Special Note: Offered Fall and Spring Semesters.

Covers different concepts and techniques of financial analysis and planning, time value of money, stocks and bonds valuation, risk and return, capital budgeting, leverage and capital structure, dividend policy, working capital management, different methods of financing including stocks, debt, convertibles, leasing, mergers and acquisitions. Students will be able to evaluate the performance of companies and understand the underlying factors that determine takeover activities, investment and financing decisions.

BA A343 Principles of Marketing 3 CR

Contact Hours: 3 + 0

Prerequisites: ACCT A201 and ACCT A202 and ECON A201 and ECON A202.

Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Special Note: Offered Fall and Spring Semesters.

Role of marketing in society and economy. The business firm as a marketing system, and management of the firm's marketing effort.

BA A350 Marketing Research 3 CR

Contact Hours: 3 + 0

Prerequisites: BA A273 and BA A343.

Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Special Note: Offered as Demand Warrants.

A study of the influence of marketing research on the decision making process, effect on the executive who must use it, and uses and misuses. Emphasis on the cost versus the value of information for decision making. Problem for formulation, exploratory research, research design, basic observations and sampling requirements, data analysis, interpretation, and reporting. Research projects are conducted on actual marketing problems.

BA A361 Human Resource Management 3 CR

Contact Hours: 3 + 0

Prerequisites: BA A300.

Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Special Note: Offered Spring Semesters.

Human resource practice in industry and the analysis of human resource structures, problems and trends. Includes recruiting, selecting, performance appraisal, training, compensation, labor and civil rights laws, interviewing, and testing.

BA A375 Statistics for Business and Economics 3 CR

Contact Hours: 3 + 0

Prerequisites: MATH A272 and BA A273.

Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Special Note: Offered Spring Semesters.

Intermediate statistics and probability with emphasis on the analysis of business and economic data. Includes multivariate probability models; classical inferences for means, standard deviations, and proportions in one and two populations; analysis of variance; contingency tables; multiple regression, and nonparametric statistics. Statistical computer packages are extensively used.

BA A377 Operations Management 3 CR

Contact Hours: 3 + 0

Prerequisites: BA A273 and MATH A272.

Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Special Note: Offered Fall and Spring Semesters.

Management of the operations/production system with emphasis on quantitative analysis. Characteristics of systems, types of production systems, forecasting, planning and scheduling work, facility design and location, and selected topics in operations research will be covered. The student is expected to spend two hours each week utilizing the College of Business & Public Policy computer laboratory.

BA A425 Advanced Corporate Financial Problems 3 CR
 Contact Hours: 3 + 0
 Prerequisites: BA A325 and CIS A110.
 Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
 Special Note: Offered Fall Semesters.
 An in-depth consideration of corporate financial topics and problems that are covered in BA A325. Many cases related to the topics under consideration are assigned and discussed in class. The student is expected to spend two hours each week utilizing the College of Business & Public Policy computer laboratory.

BA A426 Financial Institutions 3 CR
 Contact Hours: 3 + 0
 Prerequisites: BA A325 and CIS A110.
 Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
 Special Note: Offered Spring Semesters.
 A comprehensive study of the functions, structures, delivery systems, efficiencies, problems and performance of financial institutions including banks, saving and loans associations, credit unions, investment companies, pension funds, endowment funds and trusts.

BA A427 International Finance 3 CR
 Contact Hours: 3 + 0
 Prerequisites: BA A325 and CIS A110.
 Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
 Special Note: Offered Fall Semesters.
 A study of foreign exchange determination and forecasting, risk exposures, and hedging and speculation techniques, international financing through Euro-equity and Eurobond markets, international investment and portfolio diversification, international cash management and capital budgeting, international banking, international debt problems and international taxes.

BA A441 Retailing Management 3 CR
 Contact Hours: 3 + 0
 Prerequisites: BA A343.
 Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
 Factors governing successful store operation, including location, stock arrangement, buying and selling, advertising and display, merchandising, planning and control, fashion merchandising, personnel management, customer relations, recent trends, store problems and policies.

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.
 Special Note: Offered Spring Semesters.
 Emphasizes the planning, organizing, coordinating and controlling functions of international marketing management. Includes analysis of consumers and target markets, marketing research and promotion decisions applied to international markets.

BA A450 Investment Management 3 CR
 Contact Hours: 3 + 0
 Prerequisites: BA A325 and CIS A110.
 Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
 Special Note: Offered Spring Semesters.
 A study of the various concepts, techniques, and strategies of security investments. Securities including common stocks, preferred stocks, bonds, convertibles, swaps, mutual funds, closed-end funds, municipals, options, and futures are covered. Models based on fundamental and technical approaches of valuation and performance evaluation are discussed and applied to a portfolio project.

BA A460 Marketing Management 3 CR
 Contact Hours: 3 + 0
 Prerequisites: BA A343 and [BA A310 or BA A350].
 Registration Restrictions: College of Business and Public Policy majors must be admitted to upper-division standing.
 Special Note: Offered Spring Semesters.
 Marketing capstone course. Analyzes product, price, promotion, and distribution from a strategic marketing planning perspective. Emphasis on marketing decision models applied to profit and nonprofit organizations. For assessment purposes, the course will require both a portfolio preparation and a comprehensive exit exam comprising a weight of at least 5% each of the total course grade.

BA A461 Negotiations and Conflict Management 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
 Special Note: Offered Fall and Spring Semesters.
 Study of negotiation, power, and conflict management from analytical viewpoints. Topics include the application of negotiation and conflict management processes and methodology associated with international negotiations, human resource structures, and corporate merger. Computer exercises and role playing are included.

BA A462 Strategic Management 3 CR
 Contact Hours: 3 + 0
 Prerequisites: BA A273 and BA A300 and BA A325 and BA A343 and BA A377.
 Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
 Special Note: Offered Fall and Spring Semesters.
 Study of management of the total organization in a turbulent environment, integration of functional viewpoints, strategy formulation and implementation. Emphasis on both theory and case analysis.

BA A463 Promotion Management 3 CR
 Contact Hours: 3 + 0
 Prerequisites: BA A343.
 Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
 Special Note: Offered Fall Semesters.
 Analysis of alternative persuasive communication strategies designed to promote consumer and/or industrial products or ideas. Includes determination of communication objectives, selection of media, brand positioning, media buying, campaign implementation, and measurement of promotion effectiveness.

BA A481 Applications in Management 3 CR
 Contact Hours: 3 + 0
 Prerequisites: BA A300.
 Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
 Special Note: Offered Spring Semesters.
 An in-depth, hands-on examination of management topics and issues introduced in BA A300. Students are encouraged to develop their own management skills through case analysis role playing, in-class exercises, and projects that require interaction with practicing managers.

BA A488 The Environment of Business 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
 Special Note: Offered Fall and Spring Semesters.
 Examination of the legal, political, social and cultural environments in which business operates; approaches to identifying and resolving ethical and other value-related dilemmas in management.

BA A489 Entrepreneurship and New Business Planning 3 CR
 Contact Hours: 3 + 0
 Prerequisites: BA A462.
 Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
 Special Note: Offered Fall and Spring Semesters.
 Conceptualizing and planning the new business; entrepreneurship and innovation in both new and established organizations. Stages in business growth and their implications for management. Each student is required to develop a detailed plan for a new business.

BA A490 International Comparative Management 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
 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.

BA A495	Advanced Internship in Business Administration	3 CR
Contact Hours: 0 + 9 Registration Restrictions: Permission of the BA Faculty Internship Coordinator. College of Business & Public Policy majors must be admitted to upper-division standing; 2.75 GPA overall; 3.0 GPA in major. Grade Mode: Pass/No Pass. Special Note: May be repeated for credit, but only 3 credits will apply to 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 their self-confidence and career direction. Students are expected to perform duties commensurate with entry-level management positions.		
BA A601	Business Statistics and Data Analysis	2 CR
Contact Hours: 2 + 0 Registration Restrictions: Graduate Standing. Special Note: Offered Fall Semesters. 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.		
BA A603	Fundamentals of Finance	3 CR
Contact Hours: 3 + 0 Prerequisites: ACCT A601. Registration Restrictions: Graduate Standing. Special Note: Offered Spring Semesters. Introduces basic concepts and techniques of business finance. Fundamentals of financial analysis and planning, time value of money, risk and return, working capital management, capital budgeting, cost of capital, and mergers and acquisitions.		
BA A604	Marketing Management	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate Standing. Special Note: Offered Spring Semesters. Discusses the role of marketing in the society and economy. The business firm as a marketing system, management of the firm's marketing effort.		
BA A606	Fundamentals of Production/ Operations Management	2 CR
Contact Hours: 2 + 0 Prerequisites: BA A601. Registration Restrictions: Graduate Standing. Special Note: Offered Fall Semesters. Discusses decision making process as it relates to operations management. Understanding assumptions and appropriate application of quantitative models; problem formulation and solution, interpretation of results, and application of appropriate personal computer software.		
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 A623	Total Quality Management	3 CR
Contact Hours: 3 + 0 Prerequisites: [BA A601 or ESM A620] and [BA A632 or ESM A601]. Crosslisted with: ESM A623. Special Fees. Brief history of the origins of modern quality management; review of basic tools for continuous quality improvement involving everyone in the organization. The organizational climate for continuous improvement. Survey of statistical tools for continuous quality improvement.		

BA A625	Marketing of Business Products and Services	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate standing in the MBA or ESM programs. Crosslisted with: ESM A625. Marketing of business products and business advisory services to organizational customers including government and institutions. Business marketing environment, strategic planning, segmentation, organizational buying behavior, product planning and innovation, pricing, promotion, and physical distribution. Relationship marketing, service quality, customer satisfaction and value creation, and negotiation. Issues in business ethics, global context, and professional services. Cases in business marketing.		
BA A631	Business Environment Analysis	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Completion of MBA foundation course requirements and graduate standing. Special Note: Offered Fall Semesters. 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. Special Note: Offered Fall and Spring Semesters. A detailed interdisciplinary study of those organizational behavior and human resource structures which contribute centrally to the firm's success. Current and future developments regarding key concepts such as motivation, leadership, power and authority, corporate dynamics 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: ECON A602 and CIS A605 and BA A601 and BA A606. Registration Restrictions: Graduate Standing. Special Note: Offered Spring Semesters. Identification and categorization of business problems with alternative approaches to modeling and analysis. Presentation of results to enhance the probability of managerial acceptance and implementation of potential solutions. Focus on formal quantitative modeling with strong recognition of the behavioral and political contexts of decision making in complex organizations.		
BA A634	Creating the Successful Organization	3 CR
Contact Hours: 3 + 0 Prerequisites: BA A632. Registration Restrictions: Graduate Standing. Special Note: Offered Spring Semesters. Exploration of the factors, conditions, and practices that lead to the creation and maintenance of organizational success. Alternative definitions of "Success" and the view of various "Stakeholders" will be evaluated. The role of organizational style, leadership, and structure in success. Cultural determinants of success. Examination of the Japanese approach to management. Adaptivity, entrepreneurship, and innovations as success factors. Case studies of successful organizations.		
BA A635	Current Marketing Issues Seminar	3 CR
Contact Hours: 3 + 0 Prerequisites: BA A604. Registration Restrictions: Graduate Standing. Special Note: Offered Fall Semesters. An analysis of the managerial relevance of current issues in marketing as found in the professional and/ or popular marketing literature. A historical perspective will be provided through classic readings from the literature. Students will be expected to read, analyze, and discuss assigned readings in a seminar atmosphere with a view toward understanding the rationale of applied marketing management practices in such areas as theory, marketing mix, and ethics. The relation and role of marketing relative to other functional areas of the firm will be explored.		
BA A636	Financial Decision Making	3 CR
Contact Hours: 3 + 0 Prerequisites: BA A601 and BA A603. Registration Restrictions: Graduate Standing. Special Fees. Special Note: Offered Fall Semesters. Advanced financial analysis with focus on making effective financial decisions. Analysis of business finance cases.		

BA A652 International Comparison of Business Practices 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

A comparative study of the business philosophy, organization, management style, and business-society interaction in the major industrial nations. Specific study of the business systems of several of the following nations: Canada, France, Great Britain, Japan, People's Republic of China, Russia, and Germany.

BA A653 International Finance 3 CR

Contact Hours: 3 + 0

Prerequisites: BA A601 and BA A603.

A study of the international dimensions of international financial management, and the financial markets. It covers topics such as Eurocurrency and foreign exchange markets, exchange risk, international capital budgeting, multicurrency financing decisions and sources of finance, international capital and money markets.

BA A655 Strategic Management Seminar 3 CR

Contact Hours: 3 + 0

Prerequisites: BA A631 and BA A632 and BA A635 and BA A636.

Registration Restrictions: Graduate Standing.

Special Note: Offered Fall and Spring Semesters.

Analysis of the strategic environment; formulation and implementation of strategy. Role of top management and other stakeholders in setting the organization's fundamental direction. Structure and control system design for strategic support.

BA A656 Management Project 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Completion of MBA core courses.

Special Note: Offered as Demand Warrants.

Management research project, designed to integrate policy concepts, research methods, and practical problem solving techniques.

BA A690 Current Topics in Business 1-6 CR

Contact Hours: 1-6 + 0

Registration Restrictions: Faculty permission and graduate standing.

Special Note: May be repeated for credit with a change in subtitle.

Study of specific current issues, techniques, and trends affecting business.

BIOLOGICAL SCIENCES - BIOL

The WWAMI/Biomedical program may be found at

<http://biology.uaa.alaska.edu/>

Offered through the College of Arts and Sciences Engineering Building (ENGR), Room 333, 786-4770

<http://biology.uaa.alaska.edu/>

BIOL A074 Field Natural History 1-3 CR

Contact Hours: 0 + 3-9

Grade Mode: Pass/No Pass.

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.

BIOL A075 Local Flora 1 CR

Contact Hours: 0 + 3

Grade Mode: Pass/No Pass.

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.

BIOL A100 Human Biology 3 CR

Contact Hours: 3 + 0

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.

BIOL A102 Introductory Biology 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Natural Sciences Requirement.

Special Note: Primarily for non-science majors. Satisfies UAA general education and CAS Natural Science degree requirements.

One semester freshman level course for students with little or no biology background. Includes basic organization of cells, organs, organisms, populations, evolution and functional relationships relevant to modern living.

BIOL A103 Introductory Biology Laboratory 1 CR

Contact Hours: 0 + 3

Prerequisites: (BIOL A102 or concurrent enrollment).

Course Attributes: UAA GER Natural Sciences.

Special Fees.

Special Note: Primarily for non-science majors. Satisfies UAA general education and CAS Natural Science degree requirements.

Laboratory part of BIOL A102. Exercises are designed to illustrate principles and concepts developed in BIOL A102.

BIOL A104 Natural History of Alaska 3 CR

Contact Hours: 3 + 0

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.

BIOL A111 Human Anatomy and Physiology I 4 CR

Contact Hours: 3 + 3

Corequisite: BIOL A111L.

Course Attributes: UAA GER Natural Sciences.

Special Fees.

Special Note: Accepted for biology major credit only by petition. Satisfies UAA general education and CAS natural science degree requirements for specified baccalaureate degree programs. One 3-hour lab per week.

An introduction to human structure and function. The integumentary, skeletal, muscular, nervous and endocrine systems are considered.

BIOL A112 Human Anatomy and Physiology II 4 CR

Contact Hours: 3 + 3

Prerequisites: BIOL A111.

Corequisite: BIOL A112L.

Course Attributes: UAA GER Natural Sciences.

Special Note: Accepted for biology major credit only by petition. Satisfies UAA general education and CAS natural science degree requirements for specified baccalaureate programs. One 3-hour lab per week.

A continuation of BIOL A111. The circulatory, respiratory, digestive, excretory, reproductive and immune systems are considered.

BIOL A113 Lectures in Human Anatomy and Physiology I 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Current Alaska registered nurse license and permission of both the associate dean of nursing and the course instructor.

BIOL A113 is the lecture portion of BIOL A111 without the laboratory.

BIOL A114 Lectures in Human Anatomy and Physiology II 3 CR

Contact Hours: 3 + 0

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.

A continuation of BIOL A113. BIOL A114 is the lecture portion of BIOL A112 without the laboratory.

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 A115L.

Course Attributes: UAA GER Natural Sciences.

Special Note: One 3-hour lab per week. BIOL A115 and 116 are core courses in biology and are prerequisites to further course in biological sciences.

A survey of molecular biology, genetics, and homeostasis in the context of evolution.

BIOL A116 Fundamentals of Biology II 4 CR

Contact Hours: 3 + 3

Prerequisites: BIOL A115 and (CHEM A105 or concurrent enrollment) and (CHEM A105L or concurrent enrollment) and (CHEM A106 or concurrent enrollment) and (CHEM A106L 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 A116L.

Course Attributes: UAA GER Natural Sciences.

Special Note: One 3-hour lab per week. BIOL A115 and 116 are core courses in biology and are prerequisites to further course in biological sciences.

Continuation of topics addressed in BIOL A115, with emphasis on biodiversity, ecology, origin of life, cells structures and function in the context of evolution.

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 A150	Introduction to Marine Biology	4 CR
Contact Hours: 3 + 3 Special Note: Community service course. An elementary course in marine natural history with emphasis on intertidal invertebrates and algae. Other topics will include seabirds, marine mammals, fish, bottom organisms, and plankton.		
BIOL A178	Fundamentals of Oceanography	3 CR
Contact Hours: 3 + 0 Crosslisted with: GEOL A178. Prerequisites: MATH A055. Principles of oceanography, with emphasis on the oceans' 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 Crosslisted with: GEOL A179. Prerequisites: MATH A055. Corequisites: BIOL A178. Special Fees. Laboratory exercises designed to illustrate principles and concepts developed in BIOL A178.		
BIOL A200	Introduction to Complexity	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A107. An introduction to the science of complexity, currently used to predict system behavior in the physical, life, and social sciences. Emphasis is placed on complex systems in biology.		
BIOL A201	Field Identification of Alaskan Flora	3 CR
Contact Hours: 2 + 3 Offered only at Kenai Peninsula College. Special Note: Does not satisfy BA degree requirements. Field plant biology outlining the methods of identification based on leaf shape, fruit and flower form, bark and habitat. Covers all species that can be identified in the field including the lichens, mosses and liverworts, soft water algae and fleshy fungi.		
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. Accepted for biology major credit only by petition. General introductory microbiology and virology with emphasis on those areas relating to health sciences, including 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: Concurrent enrollment in BIOL A112, or 8 hours in biology or chemistry. 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. Not open to students who have completed BIOL A240 or BIOL A340 during the previous five years. Lectures in general introductory microbiology and virology with emphasis on those areas relating to health sciences, including host parasite interactions, host defense mechanisms, and epidemiology.		

BIOL A242	Fundamentals of Cell Biology	4 CR
Contact Hours: 3 + 3 Prerequisites: BIOL A116 and CHEM A106 and CHEM A106L. Corequisite: BIOL A242L. Special Note: Core course for Biology majors. One 3 hour lab per week. 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 A242 and [CHEM A106 and CHEM A106L] and MATH A107. Corequisite: BIOL A252L. Special Note: Core course for biology majors. One 3-hour lab per week. Principles of inheritance in prokaryotes and eukaryotes and physicochemical properties of genetic systems.		
BIOL A271	Principles of Ecology	4 CR
Contact Hours: 3 + 3 Prerequisites: BIOL A252 and [AS A253 or AS A307]. Special Note: Core course for biology majors. One 3-hour lab per week. Environmental variables and concepts of environment. Adaptations and ecophysiology of individual organisms. Population dynamics and distributions, species interactions, diversity and community ecology, ecosystems, biomes, 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 Kenai Peninsula College. 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 A308	Principles of Evolution	3 CR
Contact Hours: 3 + 0 Prerequisites: BIOL A252 and BIOL A371. Special Note: Core course for biology majors. An introduction to the mechanisms of, and evidence for, the evolution of living systems. The coding and transmission of genetic information in populations, populations variability, change and stabilization.		
BIOL A309	Biogeography	3 CR
Contact Hours: 3 + 0 Prerequisites: BIOL A308. 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.		
BIOL A310	Principles of Physiology	3 CR
Contact Hours: 3 + 0 Prerequisites: BIOL A242. Special Note: Satisfies physiology core curriculum requirement for biology majors. This course emphasizes the fundamental principles of cellular and system physiology of humans.		
BIOL A316	Introduction to Plant Physiology	3 CR
Contact Hours: 3 + 0 Prerequisites: BIOL A242. Special Note: Satisfies physiology core curriculum requirement for biology majors. Physiology of vascular plants, including growth, development, water relations, photosynthesis, material transport, and metabolism.		
BIOL A327	Parasitology	4 CR
Contact Hours: 3 + 3 Prerequisites: BIOL A116 and CHEM A106 and CHEM A106L. Special Fees. The life history and ecology of parasites of medical significance and economic importance, including diagnosis and control. Emphasis on North American parasites.		
BIOL A331	Systematic Botany	4 CR
Contact Hours: 3 + 3 Prerequisites: BIOL A116. Special Fees. Special Note: Saturday field trips. Offered alternate years. 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.		
BIOL A333	Biology of Non-Vascular Plants	4 CR
Contact Hours: 3 + 3 Prerequisites: BIOL A116. Special Fees. Special Note: Offered alternate fall semesters. Comparative study of structure, development, phylogenetic trends, and life histories of the major groups of algae, fungi and bryophytes.		

BIOL A334 Biology of Vascular Plants 4 CR

Contact Hours: 3 + 3

Prerequisites: BIOL A333.

Special Note: Offered alternate spring semesters.

Comparative study of morphology, developmental anatomy, phylogenetic trends, and life histories of the major groups of vascular plants.

BIOL A340 General Microbiology 5 CR

Contact Hours: 3 + 6

Prerequisites: BIOL A242 and BIOL A252.

Registration Restrictions: 8 additional biology credits.

Corequisite: BIOL A340L.

Special Note: Some additional laboratory work will be required to complete laboratory experiments.

Special Note: Offered Spring semesters.

Biology of prokaryotic and eukaryotic microorganisms and viruses, their relationships to other organisms, and to the ecosystem.

BIOL A352 Human Genetics 3 CR

Contact Hours: 3 + 0

Prerequisites: BIOL A252.

Special Note: Offered as warranted by demand.

An introduction to human genetics with emphasis on medical and social aspects. Included will be the genetics of normal human traits, biochemical and cytogenetic diagnosis of hereditary diseases, and genetic screening and counseling.

BIOL A373 Conservation Biology 3 CR

Contact Hours: 3 + 0

Prerequisites: BIOL A271 or ENVI A202.

Special Note: A service-learning course and includes field work outside of class time.

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.

BIOL A378 Marine Biology 3 CR

Contact Hours: 3 + 0

Prerequisites: BIOL A371.

The marine environment; biology and distribution of marine plants and animals; fisheries, aquaculture and pollution.

BIOL A403 Microtechnique 4 CR

Contact Hours: 2 + 6

Prerequisites: BIOL A242.

Registration Restrictions: 8 additional credits in biology; and faculty permission.

Demonstration and use of tissue techniques including procurement, preservation embedding, sectioning, staining, microscopy, photography, and illustration.

BIOL A415 Comparative Animal Physiology 4 CR

Contact Hours: 3 + 3

Prerequisites: BIOL A242 and BIOL A271.

Stacked with: BIOL A615.

Special Fees.

Special Note: Students who completed BIOL A415 as part of their undergraduate degree cannot receive credit towards their graduate degree from BIOL A615.

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 environment.

BIOL A423 Ichthyology 4 CR

Contact Hours: 3 + 3

Prerequisites: BIOL A252.

Special Fees.

Major groups of fishes, emphasizing the fishes of northwestern North America. Classification, structure, evolution, general biology, and importance to humans of the major groups.

BIOL A425 Mammalogy 4 CR

Contact Hours: 3 + 3

Prerequisites: BIOL A252.

Survey of the class Mammalia, emphasizing systematics, morphology, physiology, ecology, evolution, behavior, and conservation.

BIOL A426 Ornithology 4 CR

Contact Hours: 3 + 3

Prerequisites: BIOL A252.

Special Fees.

Survey of the class Aves, emphasizing systematics, structure, physiology, ecology, evolution, behavior, and conservation.

BIOL A427 Invertebrate Zoology 4 CR

Contact Hours: 3 + 3

Prerequisites: BIOL A252.

Special Note: Includes field trips.

Functional anatomy and evolutionary adaptations of invertebrate animals.

BIOL A430 Marine Mammal Biology 4 CR

Contact Hours: 3 + 3

Prerequisites: BIOL A271.

Stacked with: BIOL A630.

Special Fees.

Special Note: Students who completed BIOL A430 as part of their undergraduate degree cannot receive credit towards their graduate degree BIOL A630.

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.

BIOL A439 Plant Ecology Field Course 3 CR

Contact Hours: 1 + 6

Prerequisites: BIOL A252 and [CHEM A106 and CHEM A106L] and [AS A253 or AS A307].

Special Fees.

The interactions between plants and their environment. Theory and methodology for studying the responses of plants to various environmental conditions.

BIOL A441 Animal Behavior 4 CR

Contact Hours: 3 + 3

Prerequisites: BIOL A271 and [AS A253 or AS A307].

Special Fees.

Review of the ecological, evolutionary, physiology, and genetic basis of animal behavior. Research methods in lab.

BIOL A445 Herbivore Ecology 4 CR

Contact Hours: 3 + 3

Prerequisites: BIOL A371.

Stacked with: BIOL A645.

Special Fees.

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 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. Emphasis on arctic and boreal herbivores and their habitats.

BIOL A450 Microbial Ecology 3 CR

Contact Hours: 3 + 0

Prerequisites: BIOL A340.

Stacked with: BIOL A650.

Diversity of the microbial world; the role of microorganisms in the cycling of elements in the soils, lakes, and oceans; bacterial consumption and production of trace gases; geomicrobiology; symbioses.

BIOL A456 Nonlinear Dynamics and Chaos 3 CR

Contact Hours: 3 + 0

Prerequisites: MATH A202 and [PHYS A124 or PHYS A212].

Crosslisted with: CHEM A456 and PHYS A456.

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.

Stacked with: BIOL A661.

A 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 A462 Virology 3 CR

Contact Hours: 3 + 0

Prerequisites: BIOL A340.

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 A468 Biogeochemistry 3 CR

Contact Hours: 3 + 0

Prerequisites: BIOL A252 and CHEM A322.

Stacked with: BIOL A668.

The processes and reactions of the major chemical cycles in the atmosphere, lithosphere, hydrosphere, and terrestrial biosphere. Topics include biogeochemical cycling of water, carbon, nitrogen, phosphorus, and sulfur.

BIOL A471	Immunocytochemistry	4 CR
Contact Hours: 3 + 3		
Prerequisites: [ENVI A201 and ENVI A202] or [BIOL A116 and CHEM A106 and CHEM A160L].		
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 immunochemical techniques.		
BIOL A475	Arctic Tundra Ecosystems	3 CR
Contact Hours: 3 + 0		
Prerequisites: BIOL A371.		
Stacked with: BIOL A675.		
In-depth consideration of the Arctic landscape, its biota, and adaptations to environmental conditions. Understanding of ecological principals required. Examines the unique aspects of Arctic ecology and the relationship of Arctic ecosystems to global environmental issues and to the biosphere.		
BIOL A476	Boreal Ecosystems	3 CR
Contact Hours: 3 + 0		
Prerequisites: BIOL A271.		
Stacked with: BIOL A676.		
A comprehensive analysis of boreal ecosystems with emphasis on system functions and dynamics. Comparisons with other terrestrial systems will be made and unique boreal 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 A485	Selected Topics in Biology	1-4 CR
Contact Hours: 1-4 + 0		
Registration Restrictions: 16 credits in biology.		
Stacked with: BIOL A685.		
Special Note: May be repeated for credit with a change of subtitle.		
Detailed coverage of a selected topic in biology.		
BIOL A487	Comparative Anatomy of Vertebrates	4 CR
Contact Hours: 3 + 3		
Prerequisites: BIOL A252.		
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 A492	Undergraduate Seminar	1 CR
Contact Hours: 1 + 0		
Registration Restrictions: Junior or senior standing.		
Special Fees.		
Topical subjects in biology presented by undergraduate students.		
BIOL A495	Instructional Practicum: Laboratory	1 CR
Contact Hours: 0 + 3		
Registration Restrictions: 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.		
BIOL A498	Individual Research	1-6 CR
Contact Hours: 0 + 3-18		
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.		

BIOL A610	Microscopic Anatomy	3 CR
Contact Hours: 2 + 3		
Registration Restrictions: Admission to graduate program in Biology. Biomedical Program Director and faculty approval.		
Crosslisted with: BIOM 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.		
BIOL A611	Gross Anatomy I and Embryology	5 CR
Contact Hours: 3 + 6		
Registration Restrictions: Admission to graduate program in Biology. Biomedical Program Director and faculty approval.		
Crosslisted with: BIOM A611.		
Provides a broad understanding of the structural organization of the human body at the macroscopic level to provide a foundation for physical examination and functional assessment of the human organism. Integrates embryological development with study of the cadaver and examination of the normal living body. Concentrates on exploration of body cavities and the viscera they contain. Emphasis on three- dimensional interrelationships and the general principles of blood and nerve supply rather than detailed anatomy of individual organs. Anatomy of the limbs, head, and neck is not touched upon. Embryology and general anatomical concepts are presented in lecture format but most learning takes place in the dissecting laboratory and living anatomy exercises, which students prepare and work through. Aims of the course include development of the facility to extract essential information from textbooks, present knowledge in an organized fashion, and manipulate facts in problem solving.		
BIOL A612	Mechanisms in Cell Physiology	4 CR
Contact Hours: 4 + 0		
Registration Restrictions: Admission to graduate program in Biology. Biomedical Program Director and faculty approval.		
Crosslisted with: BIOM 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.		
BIOL A614	Biochemistry I	4 CR
Contact Hours: 4 + 0		
Registration Restrictions: Admission to graduate program in Biology. Biomedical Program Director and faculty approval.		
Crosslisted with: BIOM A614.		
Coordinated course covering classical molecular and cellular biochemistry, cellular physiology, and molecular genetics. Metabolic interrelationships as these occur in the individual are stressed and related to disturbances in disease states.		
BIOL A615	Advanced Comparative Animal Physiology	4 CR
Contact Hours: 3 + 3		
Registration Restrictions: Graduate Standing.		
Stacked with: BIOL A415.		
Special Fees.		
Special Note: Students who completed BIOL A415 as part of their undergraduate degree cannot receive credit towards their graduate degree from BIOL A615.		
In-depth 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.		
BIOL A620	Cell and Tissue Responses to Injury	4 CR
Contact Hours: 3 + 3		
Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval.		
Crosslisted with: BIOM A620.		
Disease processes that underlie clinical medicine. Five major sections covered: cellular pathology, inflammation, vascular pathology, genetics/developmental pathology/aging, and neoplasia. Aims of course are to introduce and to illustrate terminology, gross pathology, histopathology, etiology, pathogenesis, and clinical importance of major human disease processes.		
BIOL A621	Microbiology and Infectious Disease I	5 CR
Contact Hours: 5 + 0		
Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval.		
Crosslisted with: BIOM A621.		
Pathogenesis and immunity of infection diseases and natural barriers. Microbiology, epidemiology, clinical manifestations, and control of representative bacterial, fungal, parasitic, and viral infectious diseases. Chemotherapeutics and principles of chemotherapy. Sterilization, principles of asepsis, nosocomial and iatrogenic infections, and their presentation.		

BIOL A623 Introduction to Immunology 2 CR

Contact Hours: 2 + 0

Registration Restrictions: Admission to graduate program in Biology; Biomedical Program Director and faculty approval.

Crosslisted with: BIOM A623.

Basic concepts such as antigens; antibodies; complement; B- and T-lymphocyte function, including interactions with each other and with accessory cells; immunological tolerance; major histocompatibility complex and role of these basic concepts in immunopathology (immunodeficiencies, hypersensitivities, autoimmunity, blood transfusion, and transplantation).

BIOL A624 Biochemistry II 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval.

Crosslisted with: BIOM A624.

Continuation of BIOL A614.

BIOL A630 Advanced Marine Mammal Biology 4 CR

Contact Hours: 3 + 3

Registration Restrictions: Graduate Standing.

Stacked with: BIOL A430.

Special Fees.

Special Note: Students who completed BIOL A430 as part of their undergraduate degree cannot receive credit toward 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 research the literature and prepare a research proposal that addresses a current topic in comparative physiology, and to orally present and defend that research proposal to the graduate students in the course.

BIOL A631 Gross Anatomy II 4 CR
(Head, Neck, Ear, Nose, and Throat)

Contact Hours: 4 + 0

Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval.

Crosslisted with: BIOM A631.

Gross anatomy (including skull, larynx, and pharynx). Audition and balance, physiology, and clinical evaluation. Maxillo-facial disorders, diseases of nasal passages, naso- and oropharynx, accessory sinuses, physical examination.

BIOL A632 Nervous System 5 CR

Contact Hours: 5 + 0

Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval.

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

Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval.

Crosslisted with: BIOM A634.

Continuation of BIOL A621.

BIOL A645 Advanced Herbivore Ecology 4 CR

Contact Hours: 3 + 3

Prerequisites: BIOL A371.

Stacked with: BIOL A445.

Special Fees.

Advanced 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 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. Emphasis on arctic and boreal herbivores and their habitats.

BIOL A650 Advanced Microbial Ecology 3 CR

Contact Hours: 3 + 0

Prerequisites: BIOL A340.

Stacked with: BIOL A450.

Advanced exploration of the diversity of the microbial world; the role of microorganisms in the cycling of elements in soils, lakes, and oceans; bacterial consumption and production of trace gases; geomicrobiology; symbioses.

BIOL A661 Advanced Molecular Biology 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Stacked with: BIOL A461.

Special Note: Lectures concurrent with BIOL A461. 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, to submit an extensive paper summarizing their findings including designs for future experiments on the subject, and to give a seminar on the same topic. Not available for credit to students who have completed BIOL A461.

A 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.

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 chemicals 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 A668 Advanced Biogeochemistry 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Stacked with: BIOL A468.

Comprehensive exploration of the processes and reactions of the major chemical cycles in the atmosphere, lithosphere, hydrosphere, and terrestrial biosphere. Topics include biogeochemical cycling of carbon, nitrogen, phosphorus, and sulfur.

BIOL A672 Vegetation Analysis 4 CR

Contact Hours: 3 + 3

Registration Restrictions: Graduate Standing.

Special Fees.

Covers methods of measuring, describing and classifying vegetation. Includes: 1) plot and plotless sampling methods, 2) relevé, 3) community and ecosystem classification, 4) ordination and statistical analysis, 5) vegetation mapping, 6) vegetation structure, vegetation as habitat for animals, 7) cover/dominance, 8) species diversity, and 9) aerial photography and remote sensing as applied to landscape classification.

BIOL A675 Advanced Arctic Tundra Ecosystems 3 CR

Contact Hours: 3 + 0

Prerequisites: BIOL A371.

Registration Restrictions: Graduate Standing.

Stacked with: BIOL A475.

In-depth consideration of the Arctic landscape, its biota, and adaptations to environmental conditions. Advanced understanding of ecological principles is required. Examines the unique aspects of Arctic ecology and the relationship of Arctic ecosystems to global environmental issues and to the biosphere.

BIOL A676 Advanced Boreal Ecosystems 3 CR

Contact Hours: 3 + 0

Prerequisites: BIOL A271.

Registration Restrictions: Graduate Standing.

Stacked with: BIOL A476.

Special Note: Not available for credit to students who have completed BIOL A476.

An in-depth analysis of boreal ecosystems with emphasis on system functions and dynamics. Comparisons with other terrestrial systems will be made, and unique boreal characteristics will be emphasized.

BIOL A679 Physiological Plant Ecology 4 CR

Contact Hours: 3 + 3

Registration Restrictions: Graduate Standing.

Analyzes interactions between the plant and its 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 A685 **Advanced Topics in Biology** **1-5 CR**
 Contact Hours: 1-5 + 0
 Registration Restrictions: Graduate Standing.
 Grade Mode: Pass/No Pass.
 Stacked with: BIOL A485.
 Special Note: May be repeated for credit with a change of subtitle.
 Intensive studies on narrowly defined topics in biological sciences. Emphasis on content as well as on instructional techniques.

BIOL A692 **Graduate Seminar** **1 CR**
 Contact Hours: 1 + 0
 Registration Restrictions: Graduate Standing.
 Grade Mode: Pass/No Pass.
 Special Fees.
 Special Note: May be repeated for a maximum of 2 credits.
 Topical subjects in biology presented by graduate students, biology faculty, and guest speakers.

BIOL A698 **Directed Research** **1-6 CR**
 Contact Hours: 0 + 3-18
 Registration Restrictions: Permission of graduate advisor.
 Grade Mode: Pass/No Pass.
 Special Fees.
 Special Note: May be repeated for a maximum of 12 credits.
 Thesis specific research for the MS degree. Topic for study to be approved and directed by a faculty member in biological sciences.

BIOL A699 **Thesis** **1-6 CR**
 Contact Hours: 0 + 3-18
 Registration Restrictions: Permission of graduate advisor.
 Special Fees.
 Special Note: May be repeated for a maximum of 12 credits in combination with BIOL A698 (both courses not to exceed 12 credits).
 Planning, preparation, and completion of thesis for the MS degree in the biological sciences.

BIOMEDICAL PROGRAM - BIOM

*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 Biomedical Program-WWAMI.
 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 Biomedical Program-WWAMI.
 Grade Mode: Pass/No Pass.
 Crosslisted with: BIOL A611.

Provides a broad understanding of the structural organization of the human body at the macroscopic level to provide a foundation for physical examination and functional assessment of the human organism. Integrates embryological development with study of the cadaver and examination of the normal living body. Concentrates on exploration of body cavities and the viscera they contain. Emphasis on three-dimensional interrelationships and the general principles of blood and nerve supply rather than detailed anatomy of individual organs. Anatomy of the limbs, head, and neck is not touched upon. Embryology and general anatomical concepts are presented in lecture format but most learning takes place in the dissecting laboratory and living anatomy exercises, which students prepare and work through. Aims of the course include development of the facility to extract essential information from textbooks, present knowledge in an organized fashion, and manipulate facts in problem solving.

BIOM A612 **Mechanisms in Cell Physiology** **4 CR**
 Contact Hours: 4 + 0
 Registration Restrictions: Admission to Biomedical Program-WWAMI.
 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 Biomedical Program-WWAMI.
 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, 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 Biomedical Program-WWAMI.
 Grade Mode: Pass/No Pass.
 Crosslisted with: BIOL A614.

Coordinated course covering classical molecular and cellular biochemistry, cellular physiology, and molecular genetics. Metabolic interrelationships as these occur in the individual are stressed and related to disturbances in disease states.

BIOM A620 **Cell and Tissue Responses to Injury** **4 CR**
 Contact Hours: 3 + 3
 Registration Restrictions: Admission to Biomedical Program-WWAMI.
 Grade Mode: Pass/No Pass.
 Crosslisted with: BIOL A620.
 Special Fees.

Disease processes that underlie clinical medicine. Five major sections covered: cellular pathology, inflammation, vascular pathology, genetics/developmental pathology/aging, and neoplasia. Aims of course are to introduce and to illustrate terminology, gross pathology, histopathology, etiology, pathogenesis, and clinical importance of major human disease processes.

BIOM A621 **Microbiology and Infectious Disease I** **5 CR**
 Contact Hours: 5 + 0
 Registration Restrictions: Admission to Biomedical Program-WWAMI.
 Grade Mode: Pass/No Pass.
 Crosslisted with: BIOL A621.
 Special Fees.

Pathogenesis and immunity of infection diseases and natural barriers. Microbiology, epidemiology, clinical manifestations, and control of representative bacterial, fungal, parasitic, and viral infectious diseases. Chemotherapeutics and principles of chemotherapy. Sterilization, principles of asepsis, nosocomial and iatrogenic infections, and their presentation.

BIOM A622 **Introduction to Clinical Medicine II** **4 CR**
 Contact Hours: 4 + 0
 Registration Restrictions: Admission to Biomedical Program-WWAMI.
 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 your clinical reasoning skills, 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 Biomedical Program-WWAMI.
 Grade Mode: Pass/No Pass.
 Crosslisted with: BIOL A623.

Basic concepts such as antigens; antibodies; complement; B- and T-lymphocyte function, including interactions with each other and with accessory cells; immunological tolerance; major histocompatibility complex and role of these basic concepts in immunopathology (immunodeficiencies, hypersensitivities, autoimmunity, blood transfusion, and transplantation).

BIOM A624 **Biochemistry II** **3 CR**
 Contact Hours: 3 + 0
 Registration Restrictions: Admission to Biomedical Program-WWAMI.
 Grade Mode: Pass/No Pass.
 Crosslisted with: BIOL A624.

Continuation of BIOM A614.

BIOM A631 **Gross Anatomy II** **4 CR**
 (Head, Neck, Ear, Nose, and Throat)
 Contact Hours: 4 + 0
 Registration Restrictions: Admission to Biomedical Program-WWAMI.
 Grade Mode: Pass/No Pass.
 Crosslisted with: BIOL A631.

Gross anatomy (including skull, larynx, and pharynx). Audition and balance, physiology, and clinical evaluation. Maxillo-facial disorders, diseases of nasal passages, naso- and oropharynx, accessory sinuses, physical examination.

BIOM A632 Nervous System 5 CR
 Contact Hours: 5 + 0
 Registration Restrictions: Admission to Biomedical Program-WWAMI.
 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 Biomedical Program-WWAMI.
 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 Biomedical Program-WWAMI.
 Grade Mode: Pass/No Pass.
 Crosslisted with: PSY A650.

Selected overview of contributions from behavioral sciences to clinical practice of primary care physicians. Sensitizes students to impact of such factors as emotional and physical development, cultural backgrounds, social roles, families, sexual identities, and belief systems upon their effectiveness as physicians. Encourages appreciation of the role of behavioral factors in major management problems faced in medical practice; covers physical and psychological development of the individual from the embryo through old age; teaches skills in analyzing behavior, defining behavioral objectives, and designing precise treatment strategies to obtain these objectives.

CULINARY ARTS - CA

*Offered through the Community & Technical College
 Lucy Cuddy Hall (CUDY), Room 126, 786-4728
<http://ctc.uaa.alaska.edu/>*

CA A102 Nutrition 3 CR
 Contact Hours: 3 + 0
 Special Fees.

Chemical, biological, and social aspects of food and nutrition as related to residential and commercial foodservice.

CA A103 Culinary Skill Development 4 CR
 Contact Hours: 0 + 12
 Prerequisites: CA A102 with minimum grade of C and 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.

Special Note: Fee covers knife kit and uniforms used throughout foodservice program.

Covers principles, skills, and techniques fundamental to professional foodservice operations. Emphasizes kitchen safety and sanitation, industry vocabulary, organization and timing, menu planning, recipe conversion, equipment use, food quality standards, proper food storage, and methods and techniques necessary for quantity food preparation.

CA A104 Sanitation 2 CR
 Contact Hours: 2 + 0

Examines sanitation concepts, methods, codes, and regulations current to the foodservice industry. Offers certification testing through the Educational Foundation of the National Restaurant Association.

CA A105 Principles of Food Science 3 CR
 Contact Hours: 2 + 2
 Special Fees.

Describes the physical and chemical reactions of the food elements during preparation, cooking, and storage. Covers vegetables, fruits, protein foods, oils, starches, and sugars.

CA A107 Culinary Cost Control 2 CR
 Contact Hours: 2 + 0
 Registration Restrictions: Grade of C or better in MATH A054, or math placement test for MATH A055.

Math principles applied within hospitality and institutional foodservice operations used during food production, inventory control and personnel management. Emphasis on preparing and understanding foodservice management statistics, using a ten-key calculator, computerized cash register, and computer spreadsheets.

CA A110 Quantity Food Purchasing 2 CR
 Contact Hours: 2 + 0

Covers common criteria for assessing food quality, based upon federal food standards. Focuses on qualitative and quantitative measurements, including weights and measures, adulterants and additives, taste-testing, and can-cutting. Students develop product specifications and procure food and restaurant supplies for actual foodservice operation.

CA A111 Bakery Skill Development 4 CR

Contact Hours: 0 + 12
 Prerequisites: CA A102 with minimum grade of C and 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 A103.
 Special Fees.

Introduces fundamentals of hotel and restaurant baking. Includes production processes, safety and sanitation, recipe application, safe and accurate use of bakery tools, equipment and materials, and cooperating with others.

CA A113 Culinary Meats and Charcuterie 3 CR
 Contact Hours: 3 + 0

Special Fees.
 Meat analysis. Study of meat fabrication, cuts and their uses. Recognition of cuts and qualities. Demonstrations include fabrication and identification of cuts used in the foodservice industry.

CA A114 Beverages 2 CR
 Contact Hours: 2 + 0

History of alcoholic and non-alcoholic beverages; their make-up and chemistry. The legal ramifications, serving and uses in foodservice. Dispensing equipment, set-up and maintenance are also discussed.

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, starches, appetizers, soups, salads, and holiday meals.

CA A201 A la Carte Kitchen 4 CR
 Contact Hours: 0 + 12

Prerequisites: CA A103 with minimum grade of C and CA A111 with minimum grade of C.
 Corequisite: CA A202.
 Special Fees.

Introduces student to a la carte foodservice. Emphasis on a la minute methods of food preparation. Industry vocabulary, operations, timing, organization, safety, sanitation, and techniques for a la carte preparation used in an actual line station kitchen.

CA A202 Advanced Bakery 4 CR
 Contact Hours: 0 + 12

Prerequisites: CA A103 with minimum grade of C and CA A111 with minimum grade of C.
 Special Fees.

Expands fundamentals of hotel and restaurant baking. Explores advanced bakery techniques, product design, and presentation. Emphasizes production processes, serving and portion controls, safety and sanitation practices, and product salability.

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 A220 Foodservice Operations 3 CR
 Contact Hours: 3 + 0

Registration Restrictions: Recommended experience in foodservice operations.
 Special Note: Students planning to take the dietary managers certificate exam must enroll concurrently in CA A295A.

Operation responsibilities of the line supervisor, including purchasing, storeroom operations, distribution, serving, menu planning, recipe standardization, safety and first aid, maintenance and safe use of equipment, quality assurance, and worker/customer relations.

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 A202.

Special Fees.

Special Note: Specific uniform required.

Examination, instruction, demonstration, and practice of the many ways foods are presented and served to customers. Includes dining room service of all types, waiter/waitress responsibilities, merchandising of foods and services, tabletop topography, napkin folding, cutlery and tableside cookery to include flambé. Identification of glassware, serveware, and barware is included. Liquor liability and other legal ramifications are discussed.

CA A225 Menu Making/Facility Layout and Design 3 CR

Contact Hours: 3 + 0

Prerequisites: CA A103 and CA A105 and CA A111.

Menu design and layout of successful foodservice facilities. Consideration is given to menu composition, pricing strategies, and time and motion efficiency of facilities. Relationships among menu, nutrition, sales, purchasing, and facility are also explored.

CA A230 Foodservice Management 3 CR

Contact Hours: 3 + 0

Special Note: Students planning to take the dietary managers certificate exam must enroll concurrently in CA A295B.

Basic administrative and management responsibilities within hospitality and institutional foodservice industry. Emphasis on communication, problem solving, leadership, personnel planning, training and motivating, and organizational skills. Costs, cost control and the legal environment are also discussed.

CA A295A Foodservice Operations Practicum 1 CR

Contact Hours: .3 + 4

Grade Mode: Pass/No Pass.

Prerequisites: CA A104 and CA A107 and (CA 220 or concurrent enrollment).

Registration Restrictions: Current immunizations.

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

Grade Mode: Pass/No Pass.

Prerequisites: CA A104 and CA A107 and (CA 220 or concurrent enrollment).

Registration Restrictions: Current immunizations.

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 A490 Current Topics in Foodservice and Nutrition 1-6 CR

Contact Hours: 0-6 + 0-18

Registration Restrictions: Faculty permission required.

Special Fees.

Special Note: Only 3 credits applicable to AAS degree. See schedules for specific titles to be offered.

Provides advanced theoretical and/or experiential learning in foodservice or nutrition for the professional. Specific course content is determined by current industry trends and student needs.

CA A495 Hospitality Internship 6 CR

Contact Hours: 2 + 4

Registration Restrictions: Completion of Culinary Core, Business Core, and Hospitality Core.

Grade Mode: Pass/No Pass.

Special Note: Requires professional attire.

Provides supervised management training for capstone experience in selected hospitality, hotel, and restaurant settings within the Alaskan hospitality industry. Integrates knowledge and skills through applied work-based learning experience. Requires minimum of 760 hours at work site plus 40 hours of related seminar instruction.

CIVIL ENGINEERING - CE*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 and [(ES A331 or concurrent enrollment)].

Corequisite: CE A334L.

Special Fees.

Special Note: Offered Fall Semesters.

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.

CE A344 Water Resources Engineering 3 CR

Contact Hours: 3 + 0

Prerequisites: ES A341.

Special Fees.

Special Note: Offered as Demand Warrants.

Fundamentals of engineering hydrology and hydraulic engineering, precipitation, runoff, statistical methods, flood control, open channels, and groundwater.

CE A402 Transportation Engineering 3 CR

Contact Hours: 2 + 3

Special Note: Offered as Demand Warrants.

Administration, economics, location, construction and maintenance of highways, railways, airports, and other transportation facilities.

CE A404 Highway Engineering 4 CR

Contact Hours: 3 + 3

Prerequisites: CE A435 and ES A341.

The design, construction, operation, and maintenance of facilities for transporting people and goods by highway and the economic, social, and environmental consequences.

CE A422 Foundation Engineering 3 CR

Contact Hours: 3 + 0

Prerequisites: CE A435.

Special Note: Offered Spring Semesters.

Principal of foundation action, spread footings, mats, pile foundations, retaining walls and bulkheads, bridge piers, cofferdams and abutments.

CE A431 Structural Analysis 4 CR

Contact Hours: 4 + 0

Prerequisites: ES A331.

Special Fees.

Special Note: Offered Spring Semesters.

Review of statically determinate beams and trusses. Discusses shearing, bending moment and influence line diagrams for statically determinate and indeterminate structures. Includes deflections, elastic lines, and an introduction to matrix and computer analyses.

CE A432 Steel Design 3 CR

Contact Hours: 3 + 0

Prerequisites: CE A431.

Special Note: Offered Fall Semesters.

Essentials of structural design in steel. Building code requirements and standard practice for the design of basic structural elements and connections are covered.

CE A433 Reinforced Concrete Design 3 CR

Contact Hours: 3 + 0

Prerequisites: CE A431.

Special Note: Offered Spring Semesters.

Essentials of structural design in reinforced concrete. Building code requirements and standard practice for the design of basic structural elements and connections are covered.

CE A434 Timber Design 3 CR

Contact Hours: 3 + 0

Prerequisites: CE A431.

Special Note: Offered Alternate Fall Semesters.

Essentials of structural design in timber. Building code requirements and standard practice for the design of basic structural elements, connections, and shearwall lateral force resisting systems are covered.

CE A435 Soil Mechanics 3 CR

Contact Hours: 2 + 3

Prerequisites: ES A331 and CE A334.

Special Fees.

Special Note: Offered Fall Semesters.

Soil formation, identification and classification; physical and mechanical properties of soil, seepage, drainage and Frost action; subsurface investigation; bearing capacity of soils, lateral earth pressures and stability of slopes.

CE A438 Design of Engineering Systems 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Senior standing in an engineering program.

Special Fees.

Special Note: Offered Spring Semesters.

Introduction to system design methods for large-scale engineering systems; linear graph project modeling and design drawings of civil engineering projects.

CE A441 Sanitary Engineering 3 CR

Contact Hours: 3 + 0

Prerequisites: ES A341.

Special Fees.

Special Note: Offered Fall Semesters.

Introduction to fundamentals of environmental engineering including theory and application of water and wastewater engineering and water supply. Wastewater characteristics, collection, treatment, and disposal. Introductory information on solid waste management and air pollution control.

CE A442 Environmental Systems Design 3 CR

Contact Hours: 3 + 0

Prerequisites: CE A441.

Special Fees.

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 A603 Arctic Engineering 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Special Fees.

Special Note: Offered Fall and Spring Semesters.

Application of engineering fundamentals to problems of advancing civilization in polar regions. Logistics, foundations on frozen ground and ice, thermal aspects of structures, materials, transport, and communications, heating and ventilating.

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 Earthquake Engineering 3 CR

Contact Hours: 3 + 0

Prerequisites: CE A431 and CE A432 and CE A433 and CE A633.

Registration Restrictions: Good computer skills and basic understanding of finite element method is preferred.

Introduces basic seismic concepts, design principles, criteria for design and construction of buildings subject to earthquake ground motions. Also includes technology of reducing earthquake loads through seismic isolation.

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.

Registration Restrictions: Prerequisite and graduate standing, or instructor permission.

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

Registration Restrictions: 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: ES A344.

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.

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: Faculty 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.

COMMUNITY EDUCATION - CED*Offered through Kenai Peninsula College**34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.**www.kpc.alaska.edu***CED A106 Beginning Genealogy 3 CR**

Contact Hours: 3 + 0

Special Note: Most of the course work will be done on the individual student's family.

Teaches how to do genealogical research effectively and intelligently by using family, vital, census, court, and military records. Covers immigration and the naturalization process, importance of oral history and techniques of interviewing; how computers fit in the field; and types of libraries and special collections available.

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 4 CR**on Domestic Violence and Sexual Assault**

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.

CED A122 Natural Medicine Practices 1 CR

Contact Hours: 1 + 0

Grade Mode: Pass/No Pass.

An introduction to natural health practices, focusing on current research and developments.

CED A123 Mind/Body Integration 1 CR

Contact Hours: 1 + 0

Grade Mode: Pass/No Pass.

Examines the mind/body connection in activities such as biofeedback, massage, relaxation exercises, meditation, T'ai Chi, and Yoga.

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 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 A139 Computer Repair for IBM and Compatibles 1 CR

Contact Hours: 1 + 0

Registration Restrictions: Basic skills in using the MS/DOS operating system and Windows 3.1 are required.

Grade Mode: Pass/No Pass.

Offered only at Kenai Peninsula College.

Introduction to repair and maintenance of Intel based IBM compatible microcomputers, including the hardware and its relationship to the operating system, troubleshooting, strategies, and system upgrade techniques. No familiarity with electronics is required.

CED A140 Calculator Workshop 1 CR

Contact Hours: 1 + 0

Grade Mode: Pass/No Pass.

Familiarize students with the operation of a graphics calculator. Specific uses of the calculator appropriate to arithmetic, algebra, trigonometry, a calculus will be presented.

CED A142 Megaskills 1 CR

Contact Hours: 1 + 0

Grade Mode: Pass/No Pass.

Offered only at Kenai Peninsula College.

Introduces the concepts, content, and materials of the megaskills program. All participants who complete the training workshop will have learned and demonstrated strategies and skills to conduct megaskills workshops in their communities.

CED A170 Conflict Resolution 1 CR

Contact Hours: 1 + 0

Grade Mode: Pass/No Pass.

Introduction to the principles of conflict. Focuses on effective communication, cooperation, affirmation, and win-win solutions.

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 A181	Drawing and Painting Wildlife	3 CR
Contact Hours: 0 + 6 Grade Mode: Pass/No Pass. Community interest course emphasizing materials and techniques in drawing and painting wildlife. Subject matter includes Alaskan wildlife, their habitats, and other selections.		
CED A210	Crime Scene Investigation	2 CR
Contact Hours: 2 + 0 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. Offered only at Kenai Peninsula College. Special Fees. Presents an overview of funding sources and references, and provides an in-depth description of the components of a grant proposal.		
CED A239	Sexual Assault Response Team Training	2 CR
Contact Hours: 2 + 0 Grade Mode: Pass/No Pass. Offered only at Kenai Peninsula College. Multidisciplinary response to sexual assault for law enforcement officers, social service personnel, and nurse examiners.		

CHEMISTRY - CHEM

*Offered through the College of Arts and Sciences
Engineering Building (ENGR), Room 333D, 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 A055 with minimum grade of C or MATH A060 with minimum grade of C. Registration Restrictions: CHEM A055 with minimum grade of C or high school chemistry. Course Attributes: UAA GER Natural Sciences Requirement. Covers units of measurement, periodic table, chemical equations, atomic and molecular structure, chemical bonding, radioactivity, oxidation-reduction reactions, solutions, acids, bases, and buffers. Introduction to organic chemistry including units covering alkanes, alkenes, alkynes, aromatic compounds, alcohols, phenols, ethers, and halides.		
CHEM A103L	Survey of Chemistry Laboratory	1 CR
Contact Hours: 0 + 3 Prerequisites: (CHEM A103 or concurrent enrollment). Course Attributes: UAA GER Natural Sciences w/Lab. Special Fees. Introductory laboratory to teach the basics of laboratory equipment, data gathering, analysis, and reporting.		
CHEM A104	Introduction to Organic Chemistry and Biochemistry	3 CR
Contact Hours: 3 + 0 Prerequisites: CHEM A103. Course Attributes: UAA GER Natural Sciences Requirement. Special Note: CHEM A104 is a lecture class only. The course sequence CHEM A103/A104 satisfies the GER lab science requirement. Includes a survey of organic chemistry and biochemistry. Covers aldehydes, ketones, carboxylic acids, esters, amines, amides, carbohydrates, lipids, proteins, enzymes, bioenergetics, catabolic pathways, biosynthetic pathways, nucleic acids, protein synthesis, and selected topics in physiology.		

CHEM A104L	Introduction to Organic Chemistry and Biochemistry Laboratory	1 CR
Contact Hours: 0 + 3 Prerequisites: CHEM A103 and (CHEM A104 or concurrent enrollment). Course Attributes: UAA GER Natural Sciences w/Lab. Special Fees. Laboratory sequence based on the concepts presented in CHEM 104.		
CHEM A105	General Chemistry I	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A105 with minimum grade of C. Registration Restrictions: CHEM A055 with minimum grade of C or high school chemistry. Course Attributes: UAA GER Natural Sciences Requirement. Introduction to inorganic chemistry for science majors which includes atomic and molecular structure, chemical equations and calculations, states of matter, solutions, acids and bases, oxidation-reduction reactions, and thermodynamics. Assumes prior knowledge of nomenclature and basic calculations (metric and SI system, mole).		
CHEM A105L	General Chemistry I Laboratory	1 CR
Contact Hours: 0 + 3 Prerequisites: (CHEM A105 or concurrent enrollment). Course Attributes: UAA GER Natural Sciences w/Lab. Special Fees. Laboratory designed to teach the fundamentals of working with laboratory equipment, data gathering, analysis, and reporting.		
CHEM A106	General Chemistry II	3 CR
Contact Hours: 3 + 0 Prerequisites: CHEM A105 with minimum grade of C and [MATH A105 with minimum grade of C or MATH A107 with minimum grade of C]. Course Attributes: UAA GER Natural Sciences Requirement. The second semester in the general chemistry sequence for science majors. Discusses solution equilibrium, electrochemistry, kinetics, thermodynamics of equilibrium systems, coordination chemistry, radiation chemistry, organic nomenclature, structures, and simple reactions.		
CHEM A106L	General Chemistry II Laboratory	1 CR
Contact Hours: 0 + 3 Prerequisites: (CHEM A106 or concurrent enrollment) and CHEM A105L. Course Attributes: UAA GER Natural Sciences w/Lab. Special Fees. Laboratory designed to teach the fundamentals of working with laboratory equipment, data gathering, analysis, and reporting.		
CHEM A212	Quantitative Analysis	5 CR
Contact Hours: 3 + 6 Prerequisites: CHEM A106 with minimum grade of C and CHEM A106L with minimum grade of C. Special Fees. General principles of chemical analysis, including introduction to volumetric, gravimetric, and instrumental methods, theory, problems, and laboratory.		
CHEM A253	Principles of Inorganic Chemistry	3 CR
Contact Hours: 3 + 0 Prerequisites: CHEM A106 with minimum grade of C. Study of structure and bonding of inorganic compounds with emphasis on molecular symmetry, d-metal complexes and catalysis.		
CHEM A311	Physical Chemistry: A Biological Orientation	3 CR
Contact Hours: 3 + 0 Prerequisites: CHEM A212 with minimum grade of C and MATH A200 with minimum grade of C. Designed to introduce the principles of physical chemistry to students primarily interested in the biochemical and biological aspects of chemistry. Topics of physical chemistry are presented from the viewpoint of their application to biochemical problems. Included are discussions of thermodynamics and biochemical energetics, properties of solutions and electrolytes, electrochemical applications to biological oxidation-reduction reactions, chemical and enzyme kinetics.		
CHEM A321	Organic Chemistry I	3 CR
Contact Hours: 3 + 0 Prerequisites: CHEM A106 with minimum grade of C and CHEM A106L with minimum grade of C. Investigates the chemistry of carbon compounds including alkanes, alkenes, alkynes, alkyl halides, and arenes. Discusses physical properties, nomenclature, synthesis, reactions, reaction mechanisms, and stereochemistry of these compounds.		

CHEM A322	Organic Chemistry II	3 CR
Contact Hours: 3 + 0 Prerequisites: CHEM A321 with minimum grade of C. Corequisite: CHEM A322L. Continuation of CHEM A321 which will include the study of spectroscopic techniques for structure determination, and the chemistry of alcohols, ethers, epoxides, thiols, sulfides, carbonyl compounds, amines, carbohydrates, and amino acids. Emphasizes nomenclature, physical properties, synthetic methods, and reaction mechanisms.		
CHEM A323L	Organic Chemistry Laboratory	2 CR
Contact Hours: 0 + 6 Prerequisites: CHEM A321 with minimum grade of C and [(CHEM A322 with minimum grade of C or concurrent enrollment)]. Special Fees. Special Note: Concurrent enrollment in CHEM A322 is required unless completed with a minimum grade of C. 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.		
CHEM A331	Physical Chemistry I	3 CR
Contact Hours: 3 + 0 Prerequisites: CHEM A106 with minimum grade of C and CHEM A106L with minimum grade of C and MATH A302 with minimum grade of C and PHYS A212 with minimum grade of C and PHYS A212L with minimum grade of C. A quantitative study of the kinetic theory of gases and principles of chemical thermodynamics with applications to solutions, phase and chemical equilibria, electrochemistry, and chemical kinetics. Introduction to quantum mechanics and spectroscopy.		
CHEM A332	Physical Chemistry II	5 CR
Contact Hours: 3 + 6 Prerequisites: CHEM A331. Continuation of quantum mechanics with selected applications to atomic and molecular structure and spectroscopy. Selected topics in physical chemistry.		
CHEM A434	Instrumental Methods	4 CR
Contact Hours: 2 + 6 Prerequisites: CHEM A212 with minimum grade of C. Stacked with: CHEM A634. 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.		
CHEM A441	Principles of Biochemistry I	3 CR
Contact Hours: 3 + 0 Prerequisites: BIOL A115 with minimum grade of C and CHEM A322. Stacked with: CHEM A641. 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.		
CHEM A442	Principles of Biochemistry II	3 CR
Contact Hours: 3 + 0 Prerequisites: CHEM A441 with minimum grade of C. Special Note: Students who complete CHEM A442 as part of their undergraduate degree cannot receive credit towards their graduate degree from CHEM A642. Stacked with: CHEM A642 A study of the bioenergetics and the metabolic pathways of amino acids, proteins, carbohydrates, nucleic acids, and lipids.		
CHEM A443	Biochemistry Laboratory	2 CR
Contact Hours: 0 + 6 Prerequisites: 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.		
CHEM A450	Environmental Chemistry	3 CR
Contact Hours: 3 + 0 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.		

CHEM A453	Advanced Inorganic Chemistry	5 CR
Contact Hours: 3 + 6 Prerequisites: CHEM A253 with minimum grade of C and CHEM A332. A study of the structure, properties, reactions, and bonding of main group, d and f elements with emphasis on metals and solid state chemistry.		
CHEM A456	Nonlinear Dynamics and Chaos	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A202 and [PHYS A124 or PHYS A202]. Crosslisted with: BIOL A456 and PHYS A456. 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.		
CHEM A471	Immunochemistry	4 CR
Contact Hours: 3 + 3 Prerequisites: BIOL A115 and BIOL A116 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.		
CHEM A492	Undergraduate Seminar	1 CR
Contact Hours: 1 + 0 Registration Restrictions: Admission to the chemistry degree program and faculty permission. Stacked with: CHEM A692. Topical subjects in chemistry and biochemistry presented by undergraduate students.		
CHEM A498	Individual Research	3 CR
Contact Hours: 0 + 9 Registration Restrictions: Department permission. Special Fees. Research projects to be arranged with individual faculty members who will direct the study of research.		
CHEM A634	Advanced Instrumental Methods	4 CR
Contact Hours: 2 + 6 Prerequisites: CHEM A212. Stacked with: CHEM A434. 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.		
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. 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 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 A692	Graduate Seminar	1 CR
Contact Hours: 1 + 0 Prerequisites: (CHEM A698 or concurrent enrollment). Registration Restrictions: Department permission and graduate standing. Stacked with: CHEM A492. Topical subjects in chemistry and biochemistry presented by graduate students.		
CHEM A698	Individual Research	3 CR
Contact Hours: 0 + 9 Registration Restrictions: Graduate Standing. Special Fees. Graduate student research projects to be arranged with individual faculty members who will direct the study of research.		

CHINESE - CHIN

*Offered through the College of Arts and Sciences
Administration/Humanities Building (ADM) Suite 287, 786-4030
<http://language.uaa.alaska.edu/>*

CHIN A101 Elementary Chinese I 4 CR

Contact Hours: 4 + 0

Course Attributes: UAA GER Humanities Requirement.
Special Fees.

Designed to teach students Mandarin Chinese, Pu-Tong Hua or Guo Yu, utilizing the Beijing Pinyin Latinized phonetic systems. Utilizes a practical approach to language instruction. Experiences in reading and writing the simplified characters as well as cross-cultural activities, e.g., guest speakers and field trips to attend activities with the Chinese community.

CHIN A102 Elementary Chinese II 4 CR

Contact Hours: 4 + 0

Prerequisites: CHIN A101.

Course Attributes: UAA GER Humanities Requirement.
Special Fees.

A continuation of CHIN A101. Teaches conversational Chinese with Beijing Pinyin phonetized system and the simplified Chinese characters. Prepares one to transfer reading skills from Latinized pinyin to the characters. Beginning composition of basic conversations, stories, and simple speech scripts in Chinese taught throughout the class.

COMPUTER INFORMATION & OFFICE SYSTEMS - CIOS

*Offered through the Community & Technical College
University Center (UC) 130, 786-6423
<http://omt.uaa.alaska.edu/>*

CIOS A082 Clerical Accounting 3 CR

Contact Hours: 3+0 or 0+9

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: 0+3 or 0+9

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 1 CR

Contact Hours: 0+1 or 0+3

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 1 CR

Contact Hours: 0+1 or 0+3

Prerequisites: CIOS A101A.

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 skill and accuracy.

CIOS A101C Keyboarding C 1 CR

Contact Hours: 0+1 or 0+3

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 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: 0+1 or 0+3

Introduces personal computers to novice users. Includes basics of start-up, Windows commands and commonly used software programs in order for students to be able to use the computer for personal use.

CIOS A108 Graphic Design Fundamentals for Computer Applications 3 CR

Contact Hours: 3 + 0

Prerequisites: CIOS A113 and [CIOS A130A or CIOS A130B].

Introduces the fundamentals of graphic design and art as they relate to media production.

CIOS A113 Operating Systems: MS Windows 1 CR

Contact Hours: 0+1 or 0+3

Introduces the MS Windows operating system. Includes file and disk management, the control panel, desktop, utilities, MS Windows setup, and maintenance.

CIOS A115 Business Calculators 1 CR

Contact Hours: 0+1 or 0+3

Introduces the touch method of keyboarding on a 10-key electronic business calculator while developing speed and accuracy in solving basic business mathematical problems.

CIOS A116 Business Calculations 3 CR

Contact Hours: 0+3 or 0+9

Prerequisites: [MATH A054 with minimum grade of C or ASSET Numerical Skills with score of 43].

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 A117 Logic Concepts for Computer Technology 1 CR

Contact Hours: 0+1 or 0+3

Introduces how computers deal with numbers, calculations, and logic.

CIOS A118 Payroll Procedures 2 CR

Contact Hours: 0+2 or 0+6

Introduces payroll procedures including calculating various types of payroll, keeping payroll records, federal laws, and reporting procedures.

CIOS A120 Microcomputer Operating Systems 3 CR

Contact Hours: 3 + 0

Prerequisites: CIOS A105.

Registration Restrictions: If prerequisite is not met, CIOS Placement Exam is required.

Covers use of major features of desktop operating systems: window manipulation, file and hard disk management, and data backup. Topics include installation and customization of operating systems and desktop work environments; disk maintenance; addition and removal of hardware and programs; and advanced file placement.

CIOS A120A Bookkeeping Software Applications I: QuickBooks 1 CR

Contact Hours: 0+1 or 0+3

Prerequisites: CIOS A101A and CIOS A113.

Special Fees.

Special Note: Knowledge of bookkeeping principles is recommended. Students are strongly encouraged to complete CIOS A221A to gain a fuller understanding of this topic.

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: 0+1 or 0+3

Prerequisites: CIOS A101A and CIOS A113.

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: 0+1 or 0+3

Prerequisites: CIOS A101A and CIOS A113.

Introduces features of the Microsoft Outlook communication software. MS Outlook is a full-featured program that offers e-mail, contact, time, and task management features.

CIOS A130A Word Processing I: MS Word 1 CR

Contact Hours: 0+1 or 0+3

Prerequisites: (CIOS A101A or concurrent enrollment).

Special Note: Students are strongly encouraged to complete CIOS A230A to gain a fuller understanding of this topic.

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: 0+1 or 0+3 Prerequisites: (CIOS A101A or concurrent enrollment). Special Note: Students strongly encouraged to complete CIOS A230B to gain a fuller understanding of this topic. 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: 0+1 or 0+3 Prerequisites: CIOS A101A and CIOS A113. Special Note: Students are strongly encouraged to complete CIOS A235A to gain a fuller understanding of this topic. 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: 0+1 or 0+3 Prerequisites: CIOS A101A and CIOS A113. Special Note: Students are strongly encouraged to complete CIOS A240A to gain a fuller understanding of this topic. Introduces the fundamentals and concepts of a database, including tables, fields, sorting, keys, and relational database concepts.		
CIOS A146	Internet Concepts and Applications I	1 CR
Contact Hours: 0+1 or 0+3 Prerequisites: CIOS A101A and CIOS A113. Special Fees. Special Note: Students are encouraged to complete CIOS A246 to gain a fuller understanding of this topic. Introduces basic concepts, tools, and uses of the Internet. Explores using electronic mail and browsing for research, academic, and personal use.		
CIOS A150A	Presentations I: MS PowerPoint	1 CR
Contact Hours: 0+1 or 0+3 Prerequisites: CIOS A101A and CIOS A113. Special Note: Students are encouraged to complete CIOS A151A to gain a fuller understanding of this topic. Introduces fundamentals and concepts of presentation software and design techniques for development of graphic slides, including embedded graphs, tables, and visuals.		
CIOS A151A	Presentations II: MS PowerPoint	2 CR
Contact Hours: 0+2 or 0+6 Prerequisites: CIOS A150A. Applies advanced skills in designing and presenting computer presentations.		
CIOS A152A	Digital Imaging Concepts and Applications: Photoshop	3 CR
Contact Hours: 3 + 0 Prerequisites: (CIOS A108 or concurrent enrollment) and [CIOS A130A or CIOS A130B] and CIOS A146. Introduces the fundamentals, concepts, and applications of digital imaging techniques, including basic color theory, manipulating images, adding images to documents, and using digital images in animation and Web documents.		
CIOS A153A	Web Site Design: HTML	1 CR
Contact Hours: 1 + 0 Prerequisites: CIOS A146. Introduces designing Web pages and documents using Hypertext Markup Language (HTML), the source language for every page/document formatted for the World Wide Web (WWW). Sound design principles will be emphasized. No programming experience required.		
CIOS A153B	Web Site Design: Dreamweaver	3 CR
Contact Hours: 3 + 0 Prerequisites: [CIOS A130A or CIOS A130B] and CIOS A146 and (CIOS A152A or concurrent enrollment) and (CIOS A156 or concurrent enrollment). Introduces the concepts and skills used to create web pages and web sites using HTML and web editors. Emphasis is given on good page layout from the perspective of commercial web site design. Dreamweaver software is introduced for students to utilize HTML code and web page design.		
CIOS A153C	Web Site Design: MS FrontPage	1 CR
Contact Hours: 0+1 or 0+3 Prerequisites: CIOS A113. Introduces planning, designing, and creation of a website. Covers basic Microsoft FrontPage commands and functions.		

CIOS A154A	Desktop Publishing I: PageMaker	1 CR
Contact Hours: 0+1 or 0+3 Prerequisites: CIOS A101A. Special Note: Students are strongly encouraged to complete CIOS A254A to gain a fuller understanding of this topic. 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 A154B	Desktop Publishing I: MS Publisher	1 CR
Contact Hours: 0+1 or 0+3 Prerequisites: CIOS A101A. Special Fees. Special Note: Students are strongly encouraged to complete CIOS A254B to gain a fuller understanding of this topic. 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: 0+1 or 0+3 Prerequisites: [CIOS A130A or CIOS A130B] and CIOS A146 and CIOS A153. Introduces the concepts and skills used to create web graphics such as animated GIFs, slices, and image maps. Teaches proper optimization of graphics and gives general guidance on proper use of graphics in a web site.		
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 Note: Recommend CIOS A161A and CIOS A260A. Analyzes sentence structure and usage in business communications for application to proofreading and editing documents.		
CIOS A161A	Proofreading	1 CR
Contact Hours: 0+1 or 0+3 Prerequisites: CIOS A101 and CIOS A160. Introduces basic proofreading techniques. Includes instruction and practice in proofreading for content, usage, grammar, punctuation, and spelling.		
CIOS A162A	Shorthand	3 CR
Contact Hours: 0+3 or 0+9 Prerequisites: CIOS A101. Introduces an alphabetic shorthand system designed for fast note taking or dictation.		
CIOS A164	Filing	1 CR
Contact Hours: 0+1 or 0+3 Special Note: Students are encouraged to complete CIOS A264A to gain a fuller understanding of this topic. Introduces terminology, filing techniques, and ARMA (American Records Management Association) filing rules as they apply to alphabetic, numeric, subject, and geographic filing systems.		
CIOS A165	Office Procedures	3 CR
Contact Hours: 3 + 0 Prerequisites: CIOS A101 and [CIOS A130A or CIOS A130B]. Introduces students to the duties and responsibilities of office employees in the following areas: mail, records management, office communications, reprographics, public relations, travel, meetings, conferences, and employment procedures.		
CIOS A201A	Document Processing	3 CR
Contact Hours: 0+3 or 0+9 Prerequisites: CIOS A101A. Applies keyboarding and word processing skills to letters, mail merges, tabulations, reports, business forms, and other office documents while building speed and accuracy.		
CIOS A207	Machine Transcription	1 CR
Contact Hours: 0 + 3 Prerequisites: CIOS A160 and CIOS A201A. Registration Restrictions: Meet prerequisite or keyboarding skill and speed of 45 wpm. Special Fees. Applies word processing and business English skills to create quality documents using transcription equipment. Designed for students with no previous transcription experience.		
CIOS A208	Medical Transcription	3 CR
Contact Hours: 0 + 9 Prerequisites: CIOS A160 and CIOS A201A. Registration Restrictions: Prerequisite or demonstrated equivalent skill and speed of 45 wpm. Applies word processing and business English 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.		

CiOS A209A	Legal Transcription	1-3 CR
Contact Hours: 0 + 3-9 Prerequisites: CIOS A160 and CIOS A201A. Registration Restrictions: Prerequisite or demonstrated equivalent skill and speed of 45 wpm. 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.		
CiOS A216B	Advanced Desktop Publishing on IBM	1 CR
Contact Hours: 1 + 0 Prerequisites: CIOS A116B. Continuation of desktop publishing fundamentals, features, and operations on a personal computer. All aspects of the publishing field are touched upon. Students will generate various graphics, charts and documents incorporating advanced drawing and graphing programs.		
CiOS A220A	Bookkeeping Software Applications II: QuickBooks	2 CR
Contact Hours: 0+2 or 0+6 Prerequisites: CIOS A120A. 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.		
CiOS A230A	Word Processing II: MS Word	2 CR
Contact Hours: 0+2 or 0+6 Prerequisites: CIOS A130A. Applies skills acquired in CIOS A130A to learn intermediate and advanced word processing and desktop publishing features. Includes styles, graphics, merging documents, object linking and embedding, publishing as a web page, working with master documents, indexes, tables of contents, on-screen business forms, and macros.		
CiOS A230B	Word Processing II: WordPerfect	2 CR
Contact Hours: 0+2 or 0+6 Prerequisites: CIOS A130B. Applies skill acquired in CIOS A130B to learn intermediate and advanced word processing and desktop publishing features. Includes styles, graphics, merging documents, object linking and embedding, publishing as a web page, working with master documents, indexes, tables of contents, on-screen business forms, and macros.		
CiOS A235A	Spreadsheets I: Excel	2 CR
Contact Hours: 0+2 or 0+6 Prerequisites: CIOS A135A. Applies skills learned in CIOS A135A to designing more complex spreadsheets. Includes concepts and techniques for problem-solving and the decision-making process. Topics include design and construction of spreadsheets and templates, macros, data exchange, database features, enhancing charts, and other advanced functions.		
CiOS A240A	Databases II: MS Access	2 CR
Contact Hours: 0+2 or 0+6 Prerequisites: CIOS A140A. Applies skills learned in CIOS A140A to more complex databases. Includes database concepts and techniques, queries, forms, filters, relationships, and integration with other applications.		
CiOS A241	Integrated Applications	3 CR
Contact Hours: 0+3 or 0+9 Prerequisites: CIOS A151A and [CIOS A230A or CIOS A230B] and CIOS A235A and CIOS A240A. 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.		
CiOS A246	Internet Concepts and Applications II	2 CR
Contact Hours: 0+2 or 0+6 Prerequisites: CIOS A146. Applies Internet concepts, utilities, and tools. Includes study of security and ethics issues, search strategies, communication tools, basic HTML, and new Internet technologies.		
CiOS A251A	Desktop Publishing Concepts and Applications: InDesign	3 CR
Contact Hours: 0+3 or 0+9 Prerequisites: CIOS A108 and [CIOS A130A or CIOS A130B]. Presents design techniques and the utilization of desktop publishing software to generate sophisticated publications. Topics include the mechanics of desktop publishing, graphic design and printing, and planning and implementation of publishing projects.		

CiOS A254A	Desktop Publishing II: PageMaker	2 CR
Contact Hours: 0+2 or 0+6 Prerequisites: CIOS A154A. 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.		
CiOS A254B	Desktop Publishing II: MS Publisher	2 CR
Contact Hours: 0+2 or 0+6 Prerequisites: CIOS A154B. 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.		
CiOS A255	Multimedia Applications	3 CR
Contact Hours: 0+3 or 0+9 Prerequisites: [CIOS A130A or CIOS A130B] and CIOS A135A and CIOS A150A. Applies computer skills to learn how to manipulate sound, digital video, and digital photography to create a multimedia presentation.		
CiOS A259	Preparing Electronic Documents: Adobe Acrobat	1 CR
Contact Hours: 0+1 or 0+3 Prerequisites: [CIOS A130A or CIOS A130B] and CIOS A146. Covers publishing documents in portable document format, 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 any media storage device.		
CiOS A260A	Business Communications	3 CR
Contact Hours: 3 + 0 Prerequisites: ENGL A111. Registration Restrictions: Keyboarding and word processing skills, knowledge of document formats. Special Fees. Special Note: Recommend CIOS A160 and CIOS A161A. Applies techniques of communications to business situations requiring problem solving and an understanding of human relations. Topics include communication principles, written communications (letters, memorandums, and reports), oral presentations, and technology used to enhance written and oral communications.		
CiOS A261A	Interpersonal Skills in Organizations	3 CR
Contact Hours: 3 + 0 Prerequisites: CIOS A165. Examines theories and practices of human behavior that deal with the work place. Emphasizes leadership theory; problems in communication and motivation; and interpersonal skills that enhance the ability to function successfully with others in an organization.		
CiOS A262A	Professional Development	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Instructor permission. Special Note: Must be taken in final semester of program. Focuses on the knowledge and attitudes necessary to develop critical job survival skills, increase productivity, and improve job satisfaction and success. Each student will assess individual talents and goals, and create a career portfolio.		
CiOS A264A	Records Management	2 CR
Contact Hours: 0+2 or 0+6 Prerequisites: CIOS A164. 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 Prerequisites: CIOS A160 and CIOS A165. Examines workplace trends, management techniques, communication, conflict resolution, ethics, diversity, technology, legal issues, and changing roles of the administrative professional.		
CiOS A266	Law Office Procedures: Litigation Documents	3 CR
Contact Hours: 3 + 0 Prerequisites: CIOS A201A and [CIOS A230A or CIOS A230B]. Special Note: Students are encouraged to complete CIOS A267 and CIOS A269. Applies word processing and computer skills to the preparation of legal documents used in civil litigation with emphasis on accuracy, style, and purpose of documents. Studies the process of a civil action through the court system from the filing of a complaint through an appeal, some applicable civil rules, and legal vocabulary. Other topics include criminal actions and federal court actions.		

CIOS A267	Law Office Procedures: Client Documents	3 CR
Contact Hours: 3 + 0 Prerequisites: CIOS A201A and [CIOS A230A or CIOS A230B]. Special Note: Students are encouraged to complete the complementary course, CIOS A266. 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 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	3 CR
Contact Hours: 3 + 0 Registration Restrictions: 12 credits CIOS courses. Includes learning a new microcomputer application, applying the application to significant problems, and demonstrating the result to other computer users.		
CIOS A282	Office Internship	1-3 CR
Contact Hours: 0 + 3-9 Prerequisites: CIOS A165. Registration Restrictions: Minimum of 12 CIOS credits and instructor permission. Special Note: Requires 45 hours of work experience for each credit. Places students in business offices related to their educational programs and occupational objectives. Includes conference with faculty coordinator.		
CIOS A338	Desktop Publishing and Design	3 CR
Contact Hours: 3 + 0 Prerequisites: CIOS A107A. Special Note: A student may not apply elective credit toward a certificate or degree from both CIOS A216A and CIOS A338. Offered as Demand Warrants. The use of desktop publishing software to design, lay out, edit and refine high-quality printed communications in an office setting. Students produce flyers, brochures, newsletters, and other publications with the quality of printed typesetting and design.		

COMPUTER INFORMATION SYSTEMS - CIS

*Offered through the College of Business & Public Policy
Business Education Building (BEB), Room 309, 786-4100
www.cbpp.uaa.alaska.edu*

Students taking any ACCT, BA, CIS, ECON, 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 annotated. Does not apply to Eagle River.

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 system, and application software to include word processing, spreadsheets, databases, presentation graphics, and Internet.		
CIS A110	Computer Concepts in Business	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Math A105, CIS A105, familiarity with personal computers and basic software applications, and keyboarding of at least 30 wpm are recommended. It is assumed that students have completed a college preparation curriculum in high school including a minimum of three years of mathematics. Introduction to computer concepts from a user's perspective. Covers hardware, software, the information processing cycle, programming, and microcomputer software packages. Emphasis on solving business problems using spreadsheet and database applications.		

CIS A185	Introduction to Programming Business Applications	3 CR
Contact Hours: 3 + 0 Prerequisites: CIS A110. Registration Restrictions: If prerequisite is not satisfied, two years of high school algebra with a minimum grade of B or Math Placement Test, 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 and [MATH A107 or MATH A270]. Registration Restrictions: If prerequisites not satisfied, two years of high school algebra with a minimum grade of B, and current programming experience are required. Special Note: Class requires 8-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. Presents students with current business problems (e.g. supply chain management, payroll, personnel, etc) - some of which students solve independently and some which are solved in teams.		
CIS A295A	Computer Operations 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 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. Computer operations work experience in a faculty approved position.		
CIS A295B	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 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. Computer programming work 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.		
CIS A310	Analysis of Business Systems	3 CR
Contact Hours: 3 + 0 Prerequisites: CIS A185 and CIS A305. Registration Restrictions: Admission to upper-division standing. Presents an overview of systems analysis concepts and computer-based tools for use in the analysis of business information systems. Directed towards the development of communication skills for determining business system requirements and conveying those requirements to developers. Concepts and tools will be applied to real- world student led projects.		
CIS A330	Database Management Systems	3 CR
Contact Hours: 3 + 0 Prerequisites: CIS A185. Registration Restrictions: Admission to upper-division standing. Covers principles of database management systems including concepts and design, methods of file organization, data structures, query languages, and micro to client/server database environments. Students will be expected to design and implement a database project during the semester.		

CIS A345	Managing Data Communications and Computer Networks	3 CR
Contact Hours: 3 + 0 Prerequisites: CIS A201. Registration Restrictions: Admission to upper-division standing Introduces the rapidly changing environment of data communications over local area networks and over switched and private voice lines. Focuses on the control and management of data in a distributed environment, the technology issues associated with data communications, and current trends in the industry.		
CIS A360	Object Oriented Programming in .Net	3 CR
Contact Hours: 3 + 0 Prerequisites: CIS A201 and (CIS A330 or concurrent enrollment). Registration Restrictions: Admission to upper-division standing. Intermediate object oriented development of Windows and Web-based applications within the .Net environment. Assumes prior object oriented programming and database experience. Programming language varies between Visual Basic, C#, and other .Net compatible languages.		
CIS A361	Advanced Programming for Business Applications	3 CR
Contact Hours: 3 + 0 Prerequisites: CIS A201. Registration Restrictions: Admission to upper-division standing. Advanced topics in business programming, with an emphasis on current and next generation programming languages, and on interfacing with the UNIX, Linux, and AIX operating systems. Covers system call interface, standard and nonstandard routines, advanced data structures, pointers, system calls, inter-process communications, and introduction to X Windows.		
CIS A365	Object Oriented Programming	3 CR
Contact Hours: 3 + 0 Prerequisites: CIS A201. Registration Restrictions: Admission to upper-division standing. Covers basic concepts of Object-oriented programming languages. Some of the recent relevant developments and applications will be discussed. The OO programming languages such as C++ or Java will be used as a vehicle for illustrating the concepts discussed in the course. OO programming design and programming development patterns will be covered.		
CIS A376	Management Information Systems	3 CR
Contact Hours: 3 + 0 Prerequisites: CIS A110. Registration Restrictions: Admission to upper-division standing Theory, analysis, and design of information systems for management planning and control. Analyzes how business information systems support all the business functions, including decision-making, reporting, and transaction processing. Includes information about e-commerce, expert systems and artificial intelligence, as well as ethical issues related to IS.		
CIS A390	Selected Topics in Management Information Systems	1-6 CR
Contact Hours: 1-6 + 0 Prerequisites: CIS A201 with minimum grade of C. Registration Restrictions: Admission to upper division standing Special Note: May be taken more than once for credit. Maximum of 9 elective credits may be used for the BBA MIS degree. Check course schedule for specific titles being offered. Emphasis on MIS tool development and implementation using either traditional programming languages to develop programs, or installation and customization of off-the-shelf software or hardware.		
CIS A395	Programmer/Analyst Internship	1-6 CR
Contact Hours: 0 + 3-18 Prerequisites: CIS A201 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. Programmer/Analyst work experience in a faculty approved position.		
CIS A410	Project Management	3 CR
Contact Hours: 3 + 0 Prerequisites: CIS A310 and CIS A330 and CIS A376. Registration Restrictions: Admission to upper-division standing. Essentials of planning, scheduling and managing information system projects; risk assessment and risk management; and project management tools. Involves students in the development of a project plan for a community-based information system development project.		

CIS A420	Consulting and Training End Users	3 CR
Contact Hours: 3 + 0 Prerequisites: CIS A201 and CIS A376. Registration Restrictions: Admission to upper-division standing. Analyzes and applies the theories and strategies associated with consulting and training end users of business computer applications. Course projects are designed to advance and integrate competencies in communications skills (both oral and written) and computer technical skills obtained in prior applicable GER and CIS courses.		
CIS A421	Multimedia Authoring	3 CR
Contact Hours: 3 + 0 Prerequisites: CIS A185 and CIS A376. Registration Restrictions: Admission to upper division standing. Provides opportunities for the exploration of multimedia authoring using a variety of software tools. Stresses design theory and the integration of various multimedia forms into a coherent business product.		
CIS A423	Specialized Business Information Systems	3 CR
Contact Hours: 3 + 0 Prerequisites: CIS A201 and CIS A376 with minimum grade of C. Registration Restrictions: Admission to upper division standing. Stresses design theory and the integration of Decision Support Systems (DSS), Artificial Intelligence (AI), Executive Information Systems (EIS), and Expert Systems (ES) into a coherent business product. Explores the relationships between humans and computers in the decision-making process.		
CIS A430	Client-Server Programming for Business Applications	3 CR
Contact Hours: 3 + 0 Prerequisites: CIS A201 and CIS A330 and CIS A376. Registration Restrictions: Admission to upper division standing. Covers basic client-server system concepts and business application development using client-server development tools. Students will write advanced business application programs using client-server design and development tools with programming languages in order to interface with DBMS software for interactive processing. Emphasis on application development, program design, program testing, and certification in the client-server environment.		
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 inter-connectivity 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 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: 1-6 + 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 A605 Information Systems for Managers 2 CR
 Contact Hours: 2 + 0
 Registration Restrictions: Graduate standing.
 Special Note: Offered Spring Semesters

Provides the knowledge and skills concerning Information Systems (IS) in a business setting to enable effective use of Information Technology (IT) in organizations. Topics include major industry trends, how information systems are developed and managed, system components, and the role of information systems in organizations.

CONSTRUCTION MANAGEMENT - CM

Offered through the Community and Technical College

University Center (UC), Room 130 786-6423

<http://ctc.uaa.alaska.edu/>

CM A101 Fundamentals of CADD for Building Construction 4 CR

Contact Hours: 2 + 4
 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
 Crosslisted with: AET A102.
 Special Fees.

Introduces basic knowledge of building materials, written 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.

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 interpreting construction documents.

CM A163 Building Construction Cost Estimating 2 CR
 Contact Hours: 2 + 2
 Prerequisites: CM A101 and CM A102 and MATH A107.
 Special Fees.

Presents methods and techniques for preparing accurate cost estimates for building construction projects. Emphasizes quantity surveys, productivity, bidding and negotiation procedures, and cost control systems.

CM A201 Construction Project Management 3 CR
 Contact Hours: 3 + 0
 Prerequisites: CM A101 and CM A102.

Examines construction project management methods and processes. Includes project delivery systems, contract agreements, contract general and supplementary conditions, and contract administration procedures.

CM A202 Project Planning and Scheduling 3 CR
 Contact Hours: 2 + 2
 Prerequisites: CM A201 and MATH A108.
 Special Fees.

Examines concepts and methods for planning and scheduling of construction projects. Includes identifying work elements, analyzing resources, determining activity durations, preparing CPM schedules using computer scheduling software, preparing schedule updates and analyzing planned v. actual progress for cost control.

CM A205 Construction Safety 3 CR
 Contact Hours: 3 + 0
 Prerequisites: CM A201.

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 such natural forces as 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 A213.
 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.

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.

COMPUTER AND NETWORK TECHNOLOGY - CNT

Offered through the Community and Technical College

University Center (UC) 130, 786-6423

<http://ctc.uaa.alaska.edu/>

CNT A101 Microsoft Office 2000 Fundamentals 2 CR
 Contact Hours: 1 + 2.5
 Special Note: Good keyboarding skills recommended.

Provides basic information for Office 2000, including, but not limited to, word processing, spreadsheet, PowerPoint presentations, operating shell, and internet tools. Emphasizes individual knowledge and teamwork through variety of projects.

CNT A160 PC Operating Systems 3 CR
 Contact Hours: 2 + 3

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

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, Configuring, and Troubleshooting 2 CR

Contact Hours: 1.5 + 2
 Special Fees.

Describes how to evaluate, install, and troubleshoot available hardware and software computer equipment. Covers aspects such as system components, PC assembly and disassembly, software installation, safety, and maintenance.

CNT A163 Introduction to Networking 1 CR
 Contact Hours: 1 + .5

Introduces the concepts of networking protocols, communication techniques, and hardware components of LAN, MAN, and WAN networks.

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
 Introduces basic customer service principles, including relationships, perceptions, telephone techniques, quality, ethics, record keeping, interpersonal relationships, and teamwork.

CNT A170 CISCO Academy Network Fundamentals 3 CR
 Contact Hours: 2 + 3
 Special Fees.
 Covers networking fundamentals and develops basic skills in designing, installing, and troubleshooting local area networks. Topics include cabling, cabling closets, management devices, protocols, sub-netting, network device selection, installation, and troubleshooting.

CNT A180 PC Interfacing 3 CR
 Contact Hours: 2 + 3
 Prerequisites: CNT A160 and CNT A161 and CNT A162.
 Covers the hardware associated with computer interfacing, including bus structures, system resources, timing and control, ports, communication interfaces, multimedia access, infrared devices, and PC/PCMCIA cards.

CNT A181 PC Auxiliary Storage 1 CR
 Contact Hours: 1 + .5
 Prerequisites: CNT A160 and CNT A161 and CNT A162.
 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.
 Introduces ancillary PC hardware, including keyboards, printers, pointing devices, video displays, video capture, scanners, and digital cameras.

CNT A183 Local Area Networks 2 CR
 Contact Hours: 1.5 + 2
 Prerequisites: CNT A160 and CNT A162 and CNT A170.
 Presents the fundamentals of Local Area Networking, including topologies, protocols, computer and delivery hardware, Ethernet, network operating systems, LAN assessment, and other related software.

CNT A184 Introduction to TCP/IP 1 CR
 Contact Hours: 1 + 1
 Prerequisites: CNT A183.
 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 2000 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 2000 environment.

CNT A241 Administering and Supporting Windows 2000 Professional and Server 3 CR
 Contact Hours: 2 + 2
 Prerequisites: CNT A240.
 Special Fees.
 Presents concepts and skills to install and configure Windows 2000 Professional and Server on stand-alone computers and on client computers that are part of a workgroup or domain. This course will also prepare students to take Microsoft exams 70-210 and 70-215: Implementing, Configuring, and Administering Microsoft Windows 2000 Professional and Server.

CNT A242 Windows 2000 Network Infrastructure Administration 3 CR
 Contact Hours: 2 + 2
 Prerequisites: CNT A241.
 Special Fees.
 Provides students with the knowledge and skills to implement and manage the network infrastructure associated with a Windows 2000 domain. This course will also prepare students to take Microsoft exam 70-216: Implementing and Administering a Microsoft Windows 2000 Network Infrastructure.

CNT A243 Windows 2000 Directory Services Administration 3 CR
 Contact Hours: 2 + 2
 Prerequisites: CNT A242.
 Provides students with the skills and knowledge to install, configure, and administer the Windows 2000 Active Directory Service for a Windows 2000 domain. This course also prepares students to take Microsoft exam 70-217: Windows 2000 Directory Services Administration.

CNT A244 Designing Secure Windows 2000 Networks 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 2000 technologies. This course also prepares students to take Microsoft exam 70-220: Designing Security for a Microsoft Windows 2000 Network.

CNT A245 Windows 2000 Directory Services Design 2 CR
 Contact Hours: 1 + 2
 Prerequisites: CNT A243.
 Provides students with the knowledge and skills to design a Microsoft Windows 2000 directory services infrastructure in an enterprise network. This course also prepares students to take Microsoft exam 70-219: Designing a Windows 2000 Directory Services Infrastructure.

CNT A246 Windows 2000 Network Infrastructure Design 2 CR
 Contact Hours: 1 + 2
 Prerequisites: CNT A244.
 Provides students with the knowledge and skills to design a Microsoft Windows 2000 networking services infrastructure design that supports the network applications required for the needs of an organization. This course also prepares students to take Microsoft exam 70-221: Designing a Microsoft Windows 2000 Network Infrastructure.

CNT A260 Wide Area Networking 2 CR
 Contact Hours: 1.5 + 2
 Prerequisites: CNT A184.
 Examines wide area network fundamentals, communications, hardware, and protocols, including physical layer protocol, data link layer protocol, and higher layer protocol.

CNT A261 CISCO Router Fundamentals 3 CR
 Contact Hours: 2 + 3
 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.

CNT A270	CISCO Academy LAN Management	3 CR
Contact Hours: 2 + 3 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, IPX configuration and filtering, 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 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. 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. 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 Fees. Special Note: Prerequisites will vary with topic. Provides students with intermediate to advanced knowledge in information technology-related topics.		

COMMUNICATION - COMM

*Offered through the College of Arts and Sciences
Administration/Humanities Building (ADM), Room 262, 786-4397
<http://comm.uaa.alaska.edu/>*

COMM A101	Introduction to Human Communication	3 CR
Contact Hours: 3 + 0 Introduces basic perspectives, methods, and theories about communication. Topics include rhetoric, gender, argumentation, interviewing, research methods, performance studies, and relational and organizational communication.		
COMM A111	Fundamentals of Oral Communication	3 CR
Contact Hours: 3 + 0 Course Attributes: UAA GER Oral Communications Requirement. Special Fees. Special Note: Offered Fall and Spring Semesters. 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 Communications Requirement. Special Fees. Special Note: Offered Fall and Spring Semesters. The 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 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 Communications Requirement. Special Fees. Special Note: Offered Fall and Spring Semesters. The 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 Communications Requirement. Special Fees. Special Note: Offered Fall and Spring Semesters. 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 presentation.		
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.		
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.

COUNSELING - COUN

Undergraduate courses offered through the Advising and Counseling Center University Center (UC) 786-4500

*Graduate courses offered through the College of Education Professional Studies Building (PSB), Room 217, 786-4401
<http://advise.uaa.alaska.edu/>*

COUN A101 Introduction to Career Exploration 1 CR
 Contact Hours: 1 + 0
 Grade Mode: Pass/No Pass.
 Special Fees.

An introduction to career exploration. Includes exploring self-concept, values, interests, skills, aptitudes, work orientation, occupational information and decision making.

COUN A107 Managing Stress 1 CR
 Contact Hours: 1 + 0
 Examines general causes of stress and effective methods to eliminate or manage stress in your own life.

COUN A208 Career Planning and Changing 3 CR
 Contact Hours: 3 + 0
 Presents an innovative approach to career/life planning and job hunting. Emphasizes self-awareness and an ongoing process to define who you are and what you want from life. Includes skills identification, prioritizing, information gathering, resume writing, interviewing, salary negotiations and techniques to control the job hunt.

COUN A610 Foundations in Counseling 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: Graduate Standing.

Overview of the professional, ethical, legal, theoretical, and practical aspects of professional counseling. Examines the roles and responsibilities of a variety of counseling professions; professional organizations and associations; and professional preparation standards and credentialing. Historical and social contexts along with emerging professional directions are included.

COUN A611 Roles and Responsibilities of the Elementary Counselor 3 CR
 Contact Hours: 3 + 0
 Prerequisites: COUN A610.

Registration Restrictions: Admission into the Counseling and Guidance Program.
 Professional roles and program components of a comprehensive developmental counseling program at an elementary school. Knowledge and skill development to implement the Alaska School Counseling Program, based on national standards, will be the focus.

COUN A614 Counseling Diverse Populations 3 CR
 Contact Hours: 3 + 0
 Prerequisites: COUN A616 and COUN A623.

Registration Restrictions: Admission into the Counseling and Guidance Program.
 Explores emerging issues in counseling and builds on knowledge and skills of the novice or practicing counselor. Relevant areas of concern include counseling diverse populations, understanding family systems, improving counseling techniques, and advancing professional knowledge.

COUN A615 Roles and Responsibilities of a Secondary School Counselor 3 CR
 Contact Hours: 3 + 0
 Prerequisites: COUN A610.

Registration Restrictions: Admission to the Counseling and Guidance Program.
 Professional roles and program components of a comprehensive developmental counseling program at a secondary school. Knowledge and skill development to implement the Alaska School Counseling Program, which is based on national standards will be the focus.

COUN A616 Counseling Theories 3 CR
 Contact Hours: 3 + 0
 Prerequisites: COUN A610.

Registration Restrictions: Admission to the Counseling and Guidance Program.
 Survey of the major theoretical systems of counseling including psychodynamic, cognitive, behavioral, family system, phenomenological, existential, and non-western approaches to healing and mental health. Integration of theories and techniques to form one's own theoretical foundation as well as multicultural and ethical issues in counseling are stressed. Course requires extensive reading and an ability to synthesize and logically discuss abstract concepts.

COUN A623 Counseling Skills 3 CR
 Contact Hours: 3 + 0
 Prerequisites: COUN A610 and COUN A616.
 Registration Restrictions: Admission into the Counseling and Guidance Program.
 Special Fees.

Emphasizes development and mastery of attending, exploring, and problem solving counseling skills with focus on the helping relationship. Students participate in video taped interviews to practice and refine counseling skills and techniques.

COUN A624 Group Counseling 3 CR
 Contact Hours: 3 + 0
 Prerequisites: COUN A610 and COUN A616.

Registration Restrictions: Admission into the Counseling and Guidance Program.
 Presents an overview of basic elements of group process, with a focus on stages of group development. The course is a combination of didactic and experiential elements. Focus is on the stages in the evolution of groups. Multicultural and ethical issues related to the group process are emphasized.

COUN A632 Career Development 3 CR
 Contact Hours: 3 + 0

Theory and practice in career development. Emphasis on relating career development to the changing world and processes for infusing career development into the curriculum, kindergarten through adult. Seminar format.

COUN A633 High Risk Issues for Youth 3 CR
 Contact Hours: 3 + 0

Designed to prepare counselors and educators who work with youth. The course will address substance abuse, child abuse, violence, and related areas that pose high risk for youth. Prevention, intervention, and postvention strategies will be emphasized. The course is appropriate for counselors, regular/special education teachers, administrators, and related services personnel within Alaska.

COUN A634 Counseling Practicum I 3 CR
 Contact Hours: 0 + 9
 Prerequisites: COUN A623 and COUN A624 and [COUN A611 or COUN A615].
 Registration Restrictions: Admission to the Counseling and Guidance Program.
 Department permission required.
 Grade Mode: Pass/No Pass.

The culminating activity of counselor preparation. Applied techniques focus on specific counseling strategies 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.

COUN A636 Counseling Practicum II 3 CR
 Contact Hours: 0 + 9
 Prerequisites: COUN A623 and COUN A624 and [COUN A611 or COUN A615] and (COUN A634 or concurrent enrollment).
 Registration Restrictions: Admission into the Counseling and Guidance Program.
 Department permission 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.

COUN A661 Internship: Counseling 1-12 CR
 Contact Hours: 0 + 3-36
 Grade Mode: Pass/No Pass.
 Prerequisites: COUN A636

Registration Restrictions: Department approval.
 Post-master's or post-practica field work in a counseling setting. Provides an opportunity for working counselors or graduate counseling students who have completed a minimum of two successful practica to acquire the additional supervised hours that are required for national certification.

COMPLEX SYSTEMS - CPLX

*Offered through the College of Arts and Sciences Engineering Building (ENGR), Room 333, 786-4770
<http://biology.uaa.alaska.edu/>*

CPLX A601 Introduction to Complex Systems 5 CR
 Contact Hours: 3 + 6
 Prerequisites: MATH A200.

Registration Restrictions: Students must be formally accepted into this course.
 Intensive series of lectures and laboratories introducing foundational ideas and tools of complex systems research. Complexity in mathematical, physical, living, and social systems will be studied. Topics will include nonlinear dynamics and pattern formation, statistical mechanics and stochastic processes, information theory and computation theory, adaptive computation, computer modeling tools, and specific applications of these core topics to various disciplines.

COMPUTER SCIENCE - CS

*Offered through the College of Arts and Sciences
Social Sciences Building (SSB), Room 154, 786-1742
www.math.uaa.alaska.edu*

Each student taking any Computer Science course will be charged a single lab fee for the semester. Does not apply to Eagle River, Ft. Richardson, Elmendorf, or extended site offerings.

CS A100 Introduction to Computers 3 CR

Contact Hours: 3 + 0

Special Note: Not to be taken for credit by Computer Science majors or minors.

An introductory course in computers and computing intended for non-Computer Science majors and minors. Includes an introduction to programming languages such as BASIC or LOGO. Emphasis is on vocabulary and concept development needed to be an effective computer user.

CS A101 Introduction to Computer Science 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 grade of minimum grade of C or Math Placement Test is required. Special Note: Students who intend to major in computer science may take this course as preparation for their course of study.

Offers a broad overview of computer science designed to provide students with an appreciation for and an understanding of the many different aspects of computer science. Topics include discrete mathematics, an introduction to programming languages, algorithmic problem solving, basic concepts in hardware, operating systems, networks, graphics, and an overview of the social context of computing. The following basic skills are expected: how to use a web browser, send email, edit with a word processor, copy files, open and save documents, and open and close windows.

CS A105 FORTRAN 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 grade of C or higher or Math Placement Test is required.

Training and practice in writing programs in the FORTRAN language. Emphasis on problem solving with a computer: analysis, flowcharting, testing/debugging, and documentation.

CS A107 Pascal 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 grade of C or higher or Math Placement Test is required.

Training and practice in writing programs in the Pascal language. Emphasis on problem solving with a computer: analysis, flowcharting, testing/debugging, and documentation.

CS A109 Computer Programming (Languages Vary) 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 grade of C or higher or Math Placement Test is required.

Special Note: May be repeated for credit with a change in language.

Problem analysis and solution using a selected programming language.

CS A201 Programming Concepts 3 CR

Contact Hours: 3 + 0

Prerequisites: CS A101 or [MATH A107 or MATH A108 or MATH A109].

Registration Restrictions: Meet pre-requisite or placement into MATH A200 or MATH A272.

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 A203 Data Structures and Algorithms 3 CR

Contact Hours: 3 + 0

Prerequisites: CS A201.

Builds on object-oriented programming with an emphasis on algorithms, data structures, and software engineering.

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.

An introduction into the hardware of computer systems and the low-level programming operations which computer systems provide. The course begins with an introduction to the hardware components of computer systems (e.g. CPU, cache, I/O bus, peripherals, etc.) and the organization of these components into computer systems. After the basic components of a computer are understood, the course turns to assembly programming. Several small assembly programs are created to give the student an understanding of how programs actually direct the computer to perform computations.

CS A303 Object-Oriented Analysis, Design, and Programming 3 CR

Contact Hours: 3 + 0

Prerequisites: CS A203.

Introduction to object-oriented problem solving techniques and their implementation using object-oriented paradigms. Topics include: methods and object classes, inheritance, encapsulation, and polymorphism. The course will include selected programming assignments in a current object-oriented language.

CS A320 Operating Systems 3 CR

Contact Hours: 3 + 0

Prerequisites: CS A203 and CS A221.

An introductory course on operating systems. Topics covered: process manipulation and synchronization, processor management, storage management, I/O and file systems, and basic distributed system concepts.

CS A331 Programming Language Concepts 3 CR

Contact Hours: 3 + 0

Prerequisites: CS A203 and CS A221.

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 languages such as C++, ML, PROLOG, PERL, PYTHON, PHP, ALGOL, LISP, and PASCAL. 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 A203 and CS A221 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 A203 and MATH A231.

Study of the theory of computing and algorithm analysis and design. Topics include: context free- grammars and parsing, finite automata and regular languages; pushdown automata and context-free grammars, deterministic and nondeterministic Turing machines, decidability, and computability. In the algorithm domain, the course provides an introduction to analysis and complexity of algorithms, searching/sorting algorithms, mathematical algorithms, and graph theoretic algorithms. Introduction to complexity theory.

CS A360 Database Systems 3 CR

Contact Hours: 3 + 0

Prerequisites: CS A203.

Discussion and application of data modeling, relational database concepts and design, normalization theory, and SQL; discussion of underlying data structures, and data processing architectures and implementations.

CS A385 Computer Graphics and Multimedia 3 CR

Contact Hours: 3 + 0

Prerequisites: CS A203.

Offers an introduction to computer graphics, which has become an increasingly important area within computer science. Computer graphics, particularly in association with the multimedia aspects of the World-Wide Web, have opened up exciting new possibilities for the design of human-computer interfaces. The purpose of this course is to investigate the principles, techniques, and tools that have enabled these advances.

CS A395 Internship in Computing 3 CR

Contact Hours: 3 + 0

Prerequisites: CS A201 and CS A203 and CS A221.

Registration Restrictions: Faculty approval.

Grade Mode: Pass/No Pass.

Special Note: May be repeated three times, but only 3 credits may be applied toward a CS degree.

Application of computing skills in a professional work setting. Open to qualified students receiving faculty recommendation, and as placements are available.

CS A401	Software Engineering	3 CR
Contact Hours: 3 + 0 Prerequisites: CS A303.		
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 A203 and CS A331.		
An introduction to the basic concepts of artificial intelligence. Topics include expert systems, natural language processing, machine learning and survey of AI programming languages with emphasis on LISP and PROLOG.		
CS A413	Computer and Data Security	3 CR
Contact Hours: 3 + 0 Prerequisites: CS A203 and CS A221.		
Fundamentals of computer and data security. Designed to enable the student to better understand and to appreciate the importance of proper data processing practices and management.		
CS A431	Compilers: Concepts and Techniques	3 CR
Contact Hours: 3 + 0 Prerequisites: CS A203 and CS A221.		
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 Registration Restrictions: Senior standing and faculty permission. Special Note: Students that are completing an internship of equal sophistication should enroll in CS A495.		
Application of computer programming and system development concepts, principles, and practices to a comprehensive system. The student will analyze, design, document, and deliver a final presentation of a realistic 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.		
CS 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 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 A395.		
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.		
CS 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 Registration Restrictions: Faculty permission required.		
Software design as an engineering discipline. The various phases of software development are covered: planning analysis, design, implementation, testing, and maintenance. 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.		
An advanced topic in computer science. Topic and number of credits are determined at the time of course offering. The course may be repeated for credit with change of subtitle.		

COMPUTER SYSTEMS ENGINEERING - CSE

*Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900
www.engr.uaa.alaska.edu*

CSE A445	Computer Design and Interfacing	4 CR
Contact Hours: 3 + 3 Prerequisites: EE A204 and EE A241 and CS A221 and CS A320. Special Fees.		

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 AS 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 A480	Computer Systems Engineering Project	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Senior standing in Computer Systems Engineering and faculty permission.		

A team oriented project course which allows students to design a specific aspect of a computer system that meets a given set of requirements, within a given set of constraints, and to document and report on the design. Project topics are of moderate complexity and are selected from activities commonly undertaken by engineers in areas such as telecommunication, data acquisition and analysis, networking, or systems integration.

CAREER AND TECHNICAL EDUCATION -CTE

*Offered through the Community & Technical College
University Center (UC) 130, 786-6423
<http://ctc.uaa.alaska.edu/>*

CTE A643A	Middle/High School CTE Methods I	4 CR
Contact Hours: 4 + 0 Prerequisites: ED A424. Registration Restrictions: Admission to the Master of Arts in Teaching Program. Corequisite: CTE A695A.		
Special Note: Concurrent enrollment in internship required.		

Provides fundamentals of standards-based curriculum planning and assessment for diverse student populations in secondary career and technical education (CTE) classrooms. Explores applied research regarding middle and high school students' learning and conceptual development in CTE and corresponding pedagogy. Integrates technology, health enhancement, disciplinary integration, literacy, and education for special populations.

CTE A643B	Middle/High School CTE Methods II	2 CR
Contact Hours: 2 + 0 Prerequisites: CTE A643A. Registration Restrictions: Admission to the Master of Arts in Teaching Program. Corequisite: CTE A695B.		
Special Note: Concurrent enrollment in internship required.		

Continues the development of professional teaching practices appropriate for middle high school career and technical education (CTE) classrooms. Examines current research and scholarship about teaching and learning that will facilitate application in the internship classroom.

CTE A649 Capstone Seminar: Inquiry in Teaching and Learning 3 CR

Contact Hours: 3 + 0

Prerequisites: CTE A695B.

Registration Restrictions: Admission to the Master of Arts in Teaching Program.

Provides an opportunity for students to analyze, reflect, and conduct presentation of theory-based classroom inquiry experience during the MAT program. Explores self-assessment intern's classroom experiences and development of their educational philosophies in light of standards, research, and current educational trends and perspectives. Provides an opportunity for students to refine research and presentation skills while examining the most pressing topics in career and technical education.

CTE A695A Internship I 3 CR

Contact Hours: 0 + 9

Prerequisites: ED A424 and ED A478.

Registration Restrictions: Admission to the Master of Arts in Teaching Program.

Grade Mode: Pass/No Pass.

Crosslisted with: ED A695A.

Special Fees.

Special Note: Begins in accordance with the K-12 school year calendar, not the university academic year calendar.

Special Note: Concurrent enrollment in appropriate methods course required.

Supervised internship in a public school. Requires participation in a bi-weekly seminar with an emphasis on theory-based inquiry into teaching and learning. Placement arranged and supervised by the College of Education or the Community and Technical College in partnership with staff from the public school site.

CTE A695B Internship II 9 CR

Contact Hours: 0 + 27

Prerequisites: CTE A695A or ED A695A.

Registration Restrictions: Admission to the Master of Arts in Teaching Program.

Grade Mode: Pass/No Pass.

Crosslisted with: ED A695B.

Special Fees.

Special Note: See advisor prior to registering to determine the number of credits needed to meet program standards.

Special Note: Begins in accordance with the K-12 school year calendar, not the university academic year calendar.

Special Note: Concurrent enrollment in appropriate methods course required.

Continuation of supervised internship in a public school. Requires participation in a bi-weekly seminar with an emphasis on theory-based inquiry into teaching and learning. Placement arranged and supervised by the College of Education or the Community and Technical College in partnership with staff from the public school site.

CREATIVE WRITING & LITERARY ARTS - CWLA

*Offered through the College of Arts and Sciences
Social Sciences Building (SSB), Room 352, 786-4330
<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: May be taken twice for credit.

Introduction to techniques of writing fiction, with close analysis of each student's work.

CWLA A260E 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: May be taken twice for credit.

Introduction to various approaches to writing children's stories, with close analysis of each student's work.

CWLA A260G Introduction to Creative Writing: Women's Writing Workshop 3 CR

Contact Hours: 3 + 0

Special Fees.

Special Note: May be taken twice for credit.

Practice in two or more types of creative writing, with close analysis of each student's work. Participants examine the roles and challenges of women writers in society and explore narrative possibilities unique to writing by women.

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.

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 A382 Undergraduate Writer's Workshop: Drama for Stage and Screen 3 CR

Contact Hours: 3 + 0

Registration Restrictions: One undergraduate writing workshop (200- or 300-level) and faculty permission.

Special Fees.

Special Note: May be repeated for credit.

Study and practice in writing drama for stage and screen 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. Special Note: May be repeated for credit with a change in subtitle. 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 Inkings, 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	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Faculty permission required and graduate standing. Special Fees. Special Note: May be repeated for degree credit. Advanced study and practice of the forms and techniques of poetry with close analysis of each student's work.		
CWLA A662	Graduate Writer's Workshop: Fiction	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Faculty permission required and graduate standing. Special Fees. Special Note: May be repeated for degree credit. Advanced study and practice in the writing of various fictional forms with close analysis of each student's work.		
CWLA A672	Graduate Writer's Workshop: Prose Nonfiction	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Faculty permission required and graduate standing. Special Fees. Special Note: May be repeated for degree credit. Advanced study and practice of the forms and techniques of nonfiction prose with close analysis of each student's work.		
CWLA A682	Graduate Writer's Workshop: Drama for Stage and Screen	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Faculty permission required and graduate standing. Special Fees. Special Note: May be repeated for degree credit. Advanced study and practice of various dramatic structures of stage and screen with close analysis of each student's work. Emphasis will be on the process of developing work for production.		

CWLA A690	Form and Theory	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate Standing. Special Fees. Special Note: May be repeated with change of subtitle. A graduate level 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 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	1-6 CR
Contact Hours: 0 + 3-18 Registration Restrictions: Faculty permission. Special Note: May be repeated for credit. 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 and the oral defense of the thesis.		

DENTAL ASSISTING - DA

*Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 160, 786-6929
<http://alliedhealth.uaa.alaska.edu/dental/>*

DA A110	Dental Radiography	4 CR
Contact Hours: 3 + 2 Registration Restrictions: Corequisite: DA A123 for dental assisting, DH A114 or familiarity with dental terminology for dental hygiene. Corequisite: DA A110L. Special Note: One 2 hour lab per week. Radiation physics and biology with emphasis on radiation health, safety, protection, radiation production, x-ray machines, components and functions, and image receptors. Includes study of essential radiographic techniques, film processing techniques, and identification of radiographic anatomy.		
DA A121	Chairside Procedures I	6 CR
Contact Hours: 3 + 6 Prerequisites: (DA A123 or concurrent enrollment). Special Fees. Beginning skills necessary to function as a chairside dental assistant in a general dentistry practice. Emphasis on developing clinical skills in four-handed dentistry techniques.		
DA A122	Chairside Procedures II	8 CR
Contact Hours: 4 + 8 Prerequisites: DA A110 and DA A121 and DA A123 and (DA A125 or concurrent enrollment). Special Fees. Emphasizes advanced dental assisting skills necessary in general dentistry. Panoramic procedures, exposing radiographs on patients, taking impression for study models, matrix assembly, rubber dam application, assisting with the administration of local anesthesia, temporary crown construction, and oral health and nutrition. Briefly introduces the specialties in dentistry.		
DA A123	Biomedical Sciences for Dental Assistants	4 CR
Contact Hours: 4 + 0 Prerequisites: (DA A121 or concurrent enrollment). Special Fees. Microbiology as it applies to prevention of disease transmission; dental terminology as it relates to anatomy; anatomy and physiology of the head and neck; and the body systems as they relate to dentistry.		
DA A124	Dental Materials and Application I	2 CR
Contact Hours: 1 + 2 Special Fees. Physical and chemical properties of restorative dental materials. Prepares student for laboratory application of those materials.		
DA A125	Dental Materials and Application II	2 CR
Contact Hours: 1 + 2 Prerequisites: DA A124. Special Fees. Properties and manipulation of gypsum material, impression materials and custom trays. Covers basic crown and bridge procedures.		

DA A126	Dental Sciences for Dental Assistants	1 CR
Contact Hours: 1 + 0 Prerequisites: DA A123. Special Fees. Introduces oral embryology and histology, oral pathology, and pharmacology as they relate to dental assisting procedures.		
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 A128	Dental Communication Skills	2 CR
Contact Hours: 2 + 0 Special Fees. Introduces patient management, special needs patients, oral and written communication and applied psychology in the dental office setting.		
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.		

DENTAL HYGIENE - DH

*Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 160, 786-6929
<http://alliedhealth.uaa.alaska.edu/dental/>*

DH A111	Periodontics I	2 CR
Contact Hours: 2 + 0 Special Fees. Introduction to embryology and histology of the periodontal tissues. Includes discussion on dental accretions and cariology.		
DH A112	Techniques I for Dental Hygienists	7 CR
Contact Hours: 3 + 8 Registration Restrictions: Current BLS Certification. Special Fees. A pre-clinical course introducing basic dental hygiene procedures to include data gathering, patient education and basic instrumentation. Emphasis is placed on skill development in basic instrumentation and infection control.		
DH A113	Issues in Dental Hygiene	1 CR
Contact Hours: 1 + 0 Special Fees. Introduces ethical and legal concerns of the dental hygiene profession. Patient management and teamwork are discussed.		
DH A114	Anatomy of the Orofacial Structures	2 CR
Contact Hours: 2 + 0 Special Fees. Provides students with knowledge to perform technical skills within the oral cavity. In particular, those relating to dental screening and record taking.		
DH A121	Periodontics II	2 CR
Contact Hours: 2 + 0 Special Fees. Introduction to periodontal disease. Emphasis placed on recognition of periodontal disease and treatment planning.		

DH A122	Techniques II for Dental Hygienists	4 CR
Contact Hours: 2 + 4 Prerequisites: DH A112. Registration Restrictions: Current BLS Certification. Special Fees. Introduces adjunctive techniques used in dental hygiene treatment. Basic manipulation of dental materials. Emphasis is placed on care of materials and restorations that are encountered intraorally during dental hygiene treatment. Radiology lab provides opportunity to develop competence in exposing radiographs on patients under direct faculty supervision.		
DH A165	Pharmacology for Dental Hygienists	2 CR
Contact Hours: 2 + 0 Special Fees. General concepts of pharmacology, nature of drug reactions, individual response to drugs, principles of neuropharmacology, toxicology, anti-infective therapy, effect of drugs on cardiovascular, endocrine and other body systems. Emphasis is placed on drugs used in dentistry.		
DH A192	Clinical Seminar I	1 CR
Contact Hours: 0 + 3 Corequisite: DH A195A. Special Fees. Discussion and evaluation of clinical experiences encountered in DH A195. Emphasis is placed on review of treatment plans and case presentation.		
DH A195A	Clinical Practicum I	4 CR
Contact Hours: 0 + 12 Registration Restrictions: Current CPR certification, department permission, and current immunizations for Hepatitis B, Rubella, Rubeola, Tetanus/Diphtheria, and proof of a current negative PPD. Corequisite: DH A192. Special Fees. Provides opportunity for student to achieve clinical skill competency with individuals presenting themselves as periodontally healthy or with signs of gingivitis.		
DH A211	Current Periodontal Therapies	2 CR
Contact Hours: 2 + 0 Special Fees. Develops familiarity with current nonsurgical and surgical techniques in the treatment of periodontal disease. Nutrition and immunology as it relates to periodontal diseases are discussed. Case presentations made by students.		
DH A212	Techniques III for Dental Hygienists	3 CR
Contact Hours: 1 + 4 Registration Restrictions: Current BLS certification. Special Fees. Advanced dental hygiene instrumentation and intraoral techniques. Provides for discussion of patients with special needs.		
DH A214	Pathology of Oral Tissues	2 CR
Contact Hours: 2 + 0 Special Fees. Includes the signs, symptoms, contagion recognition of selected diseases of the oral cavity and systemic diseases that manifest themselves in the oral cavity.		
DH A224	Principles of Dental Health	3 CR
Contact Hours: 2 + 3 Special Fees. Provides a broad understanding of community dental health and dental epidemiology. Students develop and implement a basic community dental health project.		
DH A292A	Clinical Seminar II	1 CR
Contact Hours: 0 + 3 Corequisite: DH A295A. Special Fees. Discussion and evaluation of clinical experiences encountered in DH A295A. Emphasis is placed on review of treatment plans and case presentations of patients exhibiting early periodontal disease.		
DH A292B	Clinical Seminar III	1 CR
Contact Hours: 0 + 3 Corequisite: DH A295B. Special Fees. Discussion and evaluation of clinical experiences encountered in DH A295B. Emphasis is placed on review of treatment plans and case presentations of patients exhibiting moderate to advanced periodontal disease.		

DH A295A Clinical Practicum II 5 CR

Contact Hours: 0 + 15

Registration Restrictions: Current BLS certification, department permission, and immunizations.

Corequisite: DH A292A.

Special Fees.

Provides opportunity for students to achieve clinical skill competency with individuals presenting themselves with mild to moderate periodontal disease. This course is conducted in a clinical setting with volunteer patients and individualized instruction.

DH A295B Clinical Practicum III 6 CR

Contact Hours: 0 + 18

Registration Restrictions: Current BLS certification, department permission, and immunizations.

Corequisite: DH A292B.

Special Fees.

Provides opportunity for student to achieve clinical skill competency with individuals presenting themselves with moderate to advanced periodontal disease. Learning occurs through student practice and individualized instruction.

DH A310 Oral Pain Control 3 CR

Contact Hours: 1.5 + 3

Prerequisites: DH A195.

Registration Restrictions: The student must meet at least one of the following: a graduate dental hygienist from an ADA accredited dental hygiene program, a UAA second year dental hygiene student, or a licensed dental hygienist.

Special Fees.

Special Note: Current BLS required.

Examines pharmacology, armamentarium, anatomical and physiological considerations, administration techniques, and potential complications of local anesthesia. Analyzes pharmacology, techniques, medical contraindications, and management complications accompanying administration and monitoring of nitrous oxide.

DH A320 Dental Health Services 2 CR

Contact Hours: 2 + 0

Special Fees.

Surveys the various alternative dental hygiene practice settings available to clinicians. Generally overviews the role the dental hygienist has in providing dental hygiene services within various health care systems.

DH A395 Clinical Practicum IV for Dental Hygienists 1-3 CR

Contact Hours: 0 + 3-9

Registration Restrictions: Graduated from an ADA accredited dental hygiene program or licensed as a dental hygienist. Current BLS certification.

Special Note: May be repeated for credit. No more than three credits will be applied to a degree program.

Students integrate and apply dental hygiene techniques through direct patient care. Synthesis of knowledge and skill competencies essential to dental hygiene practice are stressed. Emphasis is placed on comprehensive dental hygiene treatment.

DH A420 Community Dental Health 3 CR

Contact Hours: 1 + 6

Prerequisites: HS A379.

In various dental hygiene practice settings, the student participates in community health care planning and becomes acquainted with patterns for delivery of comprehensive health care services and the role of dental team members. Field assignments will be arranged on a contractual basis to meet the dental needs, goals and interests of the student. Regularly scheduled meetings will be held with the faculty to assess the progress of the project and evaluate the outcome.

DH A495 Alternative Practicum for Dental Hygienists 2 CR

Contact Hours: 0 + 6

Registration Restrictions: Graduate of an accredited Dental Hygiene Program; licensed in Alaska as a dental hygienist; BLS certification; immunizations.

Students will provide dental hygiene services and dental health education in selected dental health care settings. Sites include but are not limited to rural communities, correctional institutions, hospitals, nursing homes and community dental clinics. Students will be required to adhere to state and agency regulations concerning clinical supervision. Due to the seasonal nature of work in rural areas, rural assignments generally will be offered during the spring semester.

DIETETICS & NUTRITION - DN*Offered through the Community & Technical College**Lucy Cuddy Hall (CUDY), Room 126, 786-4728**<http://etc.uaa.alaska.edu/>***DN A145 Child Nutrition 2 CR**

Contact Hours: 2 + 0

Introduction to the nutritional needs of infants, preschool, and school-age children and how these needs translate into healthy and appealing meals/snacks. Covers common childhood eating problems and child nutrition programs for reimbursable food costs.

DN A146 Science of Weight Management 1 CR

Contact Hours: 1 + 0

Designed for those wanting to understand sound weight control techniques and wanting ability to evaluate popular fad diets.

DN A203 Normal Nutrition 3 CR

Contact Hours: 3 + 0

Prerequisites: (BIOL A112 or concurrent enrollment) or (CHEM A104 or concurrent enrollment).

Special Fees.

Study of nutrition in the life cycle including food sources and requirements of nutrients; physiological and metabolic aspects of nutrient function; food choices, selection and contemporary issues of concern to health professionals and consumers.

DN A245 Nutrition for the Second Fifty Years 3 CR

Contact Hours: 3 + 0

Special Fees.

Focuses on the nutritional needs of the older person, based on physiological changes in aging, with nutritionally related diseases, procuring and preparing food, and assistive care. Designed for those preparing for careers in elderly care and for those interested in learning how to care for themselves in later years.

DN A250 Introduction to Diet Therapy 3 CR

Contact Hours: 3 + 0

Prerequisites: (CA A102 with minimum grade of C) or DN A203.

Presents principles of therapeutic menu writing, nutritional screening and assessment, care planning, medical nutrition therapy for specific disease states, nutritional interviewing and counseling/education, documentation in the medical record, health care regulations and quality improvement. Introduces principles of dietetics and the role of the professionally certified dietary manager.

DN A295 Nutritional Care Practicum 1 CR

Contact Hours: .3 + 4

Grade Mode: Pass/No Pass.

Prerequisites: DN A250 with minimum grade of B.

Registration Restrictions: Current immunizations.

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.

DN A303 Preventive and Therapeutic Nutrition 3 CR

Contact Hours: 3 + 0

Prerequisites: DN A203 with minimum grade of C.

Explores role of food and dietary habits in prevention of diseases such as hypertension, heart disease, cancer, and dental caries. Covers treatment of diabetes, alcoholic liver disease, obesity, anorexia nervosa, kidney disease, heart disease, and others by means of alterations in food consumption.

DANCE - DNCE*Offered through the College of Arts and Sciences**Fine Arts Building (ARTS), Room 332, 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 techniques for the avocational student with little or no background in dance. Simple exercises and combinations introduce fundamental ballet positions, movements, and terminology. Correct alignment stressed in basic exercises and elementary locomotor combinations.

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 fundamentals of jazz dance for the avocational student with little or no dance background. Simple exercises and movement combinations introduce elementary fundamentals of jazz style and basic dance technique. Correct alignment is stressed throughout class.		
DNCE A100	Introduction to Dance	1 CR
Contact Hours: 1 + 1 Introduction to the art and discipline of dance movement. Classes are geared to the level of the participants. Enhanced physical agility and knowledge of basic dance vocabulary are goals. Three short sections offered in ballet, modern and jazz.		
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. Correct alignment and injury prevention stressed. Exploration of dance aesthetics and ballet philosophy as well as social and historical influences.		
DNCE A121	Fundamentals of Modern Dance I	2 CR
Contact Hours: 1 + 2 Special Fees. Special Note: May be repeated three times for credit. Beginning modern dance techniques. Correct alignment and injury prevention stressed. Introduces basic dance skills through warm-up exercises, locomotor movements and simple combinations. Exploration of dance aesthetics and modern dance philosophy, and historical and social influences.		
DNCE A124	Dance for Musical Theatre I	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. 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. 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 A151	Beginning Tap Dance I	1 CR
Contact Hours: 1 + 1 Special Fees. Special Note: May be repeated three times for credit. Learning and practicing basic tap dance steps and combinations. Begins with warm-up exercises at barre and across floor. Covers basic steps such as shuffle, flap, ball-change, front and back flaps.		

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 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.		
DNCE A205	Fundamentals of Ballet II	2 CR
Contact Hours: 1 + 2 Prerequisites: DNCE 101 with minimum grade of C. Special Fees. Special Note: May be repeated three times for credit. Technical, verbal, and theoretical knowledge of ballet enhanced by acquisition of new skills for control and movement. Concepts of dance aesthetics and style plus interrelationships between music and dance. Emphasis on correct anatomical alignment and science of movement.		
DNCE A223	Fundamentals of Modern II	2 CR
Contact Hours: 1 + 2 Prerequisites: DNCE A121 with minimum grade of C. Special Fees. Special Note: May be repeated three times for credit. Modern dance techniques and vocabulary expanded by additional dance skills. Introduction of long warm-ups and movement combinations to increase body strength and flexibility. Exploration of modern dance history, philosophy, and aesthetics. Qualities of dance movement and music/dance relationships explored. Correct alignment and injury prevention stressed.		
DNCE A224	Dance for Musical Theatre II	2 CR
Contact Hours: 1 + 2 Prerequisites: DNCE A124 with minimum grade of C or THR A124 with minimum grade of C. Crosslisted with: THR 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.		
DNCE A234	Fundamentals of Jazz II	2 CR
Contact Hours: 1 + 2 Prerequisites: DNCE A131 with minimum grade of C. Special Fees. Special Note: May be repeated three times for credit. Enhances technical and theoretical knowledge of jazz dance technique rooted in the complexity, variety, and spontaneity of jazz music. Warm-up exercises and movement combinations challenge existing jazz style with extended rhythmic phrases and structured improvisation. Concepts of jazz expression applied to interrelationships between dance and music. Historical and social influences in jazz examined. Correct alignment and injury prevention stressed.		
DNCE A245	Dances of the West African Diaspora II	2 CR
Contact Hours: 1 + 2 Prerequisites: DNCE A145 with minimum grade of C. Special Fees. Special Note: May be repeated three times for credit. Level II course in social and religious dances of the West African Diaspora. May include those from South America and the Caribbean. Skills learned in Dances of the West African Diaspora I will be extended, while more complex dances will be introduced. Historical, social, and cultural context of each dance will be emphasized. Correct alignment and injury prevention stressed.		
DNCE A253	Beginning Tap II	1 CR
Contact Hours: .5 + 1 Prerequisites: DNCE A151 with minimum grade of C. Special Fees. Special Note: May be repeated three times for credit. This course increases the student's skill level in basic tap dance technique and augments tap vocabulary acquired in Beginning Tap Dance I. Students are introduced to more complex steps and rhythms. Historical and social importance of tap discussed.		

DNCE A262 Theory and Improvisation 2 CR
 Contact Hours: 1 + 2
 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.
 Special Fees.
 Special Note: May be repeated 3 times for credit.

Explores ensemble movement improvisation, providing opportunities for students to practice as soloists and to integrate vocal work with movement. Students practice improvisational skills they may be expected to use in rehearsal, as part of the composition/choreographic process, and/or in performance.

DNCE A301 Intermediate Ballet I 2 CR
 Contact Hours: 1 + 2
 Prerequisites: DNCE A205 with minimum grade of C.
 Special Note: May be repeated three times for credit.

Elaboration of ballet technique through barre and center practice with an emphasis on body placement, flexibility, and strength. A serious ballet course requiring regular attendance.

DNCE A302 Intermediate Ballet II 2 CR
 Contact Hours: 1 + 2
 Prerequisites: DNCE A301 with minimum grade of C.
 Special Note: May be repeated three times for credit.

Concentration on specific techniques fundamental to expertise in classical ballet. Emphasis on development of balance and endurance, and on building a strong knowledge of steps in combinations. Performance style and correct alignment and injury prevention stressed. Serious ballet course requiring regular attendance.

DNCE A321 Intermediate Modern I 2 CR
 Contact Hours: 1 + 2
 Prerequisites: DNCE A223 with minimum grade of C.
 Special Fees.
 Special Note: May be repeated three times for credit.

Increases the student's skill level and movement vocabulary in intermediate Modern I technique. Movement theory, phrasing and dynamics emphasized along with modern dance aesthetics. Structured technical exercises increase the student's strength, flexibility, and quality of movement. Correct alignment and injury prevention stressed.

DNCE A322 Intermediate Modern II 2 CR
 Contact Hours: 1 + 2
 Prerequisites: DNCE A321 with minimum grade of C.
 Registration Restrictions: Instructor permission required.
 Special Note: May be repeated three times for credit.

Continuation and elaboration of Intermediate Modern I technique and theories. Course will emphasize the refinement of performance technique, movement dynamics, and improvisational skills while incorporating techniques that focus on correct alignment, centering, and proper articulation of the joints. Continued exploration of modern dance history, philosophy, and aesthetics. Correct alignment and injury prevention stressed.

DNCE A331 Intermediate Jazz I 2 CR
 Contact Hours: 1 + 2
 Prerequisites: DNCE A234 with minimum grade of C.
 Registration Restrictions: Instructor permission required.
 Special Note: May be repeated three times for credit.

Increases skill level and movement vocabulary in intermediate jazz dance technique rooted in the complexity, variety, and spontaneity of jazz music. Concepts of swing, rhythmic manipulation and syncopation, tension, and release are examined with an emphasis on extended phrases, musicality, and structured improvisation. Historical and social influences in jazz expression explored. Correct alignment and injury prevention stressed.

DNCE A332 Intermediate Jazz II 2 CR
 Contact Hours: 1 + 2
 Prerequisites: DNCE A331 with minimum grade of C.
 Registration Restrictions: Instructor permission required.
 Special Note: May be repeated three times for credit.

Augmentation of skill level and movement vocabulary acquired in Intermediate Jazz I. Complex movement phrases and structured improvisation are explored with an emphasis on the creation of jazz music and dance arrangements, and on performance style. Conceptual understandings of the relationships between dance and music in jazz expression emphasized. Correct alignment and injury prevention stressed.

DNCE A351 Intermediate Tap I 1 CR
 Contact Hours: .5 + 1
 Prerequisites: DNCE A254 with minimum grade of C.
 Special Note: May be repeated three times for credit.

Increases student's skill level in Intermediate Tap I. Concepts of tap styles and the relationship of these styles with tap history explored. Concepts of improvisation, extended phrases, and musicality examined. Correct alignment and injury prevention stressed.

DNCE A352 Intermediate Tap II 1 CR
 Contact Hours: .5 + 1
 Prerequisites: DNCE A351 with minimum grade of C.
 Special Note: May be repeated three times for credit.

Enhancement of skill level practiced in Intermediate Tap I. Exploration of tap styles with an emphasis on movement, time, space, and structural analysis, and on elements of style and performance. Structured improvisation emphasized. Historical and social importance of tap examined. Correct alignment and injury prevention stressed.

DNCE A360 Contemporary Techniques, Composition, and Repertory 1 CR
 Contact Hours: .5 + 1

Prerequisites: DNCE A205 with minimum grade of C or DNCE A223 with minimum grade of C or DNCE A234 with minimum grade of C.
 Registration Restrictions: Instructor permission by audition required.
 Special Note: May be repeated three times for credit.

Performance-oriented course taught by UAA Faculty and/or guest dance artists from the professional community. Class work may include a diverse complement of dance techniques. Essential movement qualities, performance skills, and compositional elements of the dance style under study explored. Class will culminate in performance.

DNCE A361 Approaches to Dance Composition 3 CR
 Contact Hours: 3 + 0

Prerequisites: [DNCE A205 with minimum grade of C or DNCE A223 with minimum grade of C or DNCE A234 with minimum grade of C] and DNCE A262 with minimum grade of C.
 Registration Restrictions: Instructor permission required.
 Special Fees.
 Special Note: May be repeated twice for credit.

Introduction to the process of creating movement studies as a foundation for larger works of dance. Universal elements of composition and the creative process are explored from multiple perspectives. Final movement study project will be required.

DNCE A365 Dance Repertory and Performance 2 CR
 Contact Hours: 1 + 2

Prerequisites: DNCE A205 with minimum grade of C or DNCE A223 with minimum grade of C or DNCE A234 with minimum grade of C.
 Registration Restrictions: Instructor permission by audition required
 Special Fees.
 Special Note: May be repeated three times for credit.

Enhancement of dance technique and application of performance skills through repertory. Class work focuses on learning and refining works of choreography or movement studies in one to two styles with an emphasis on learning the core aesthetic principles of performance specific to each style such as rhythm, form, and quality. Structured technical exercises condition the body for strength, coordination, and flexibility. Correct alignment and injury prevention stressed.

DNCE A370 Interdisciplinary Dance Studies: Issues and Methods 3 CR

Contact Hours: 3 + 0
 Prerequisites: DNCE A170 with minimum grade of C and [ENGL A211 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A214 with minimum grade of C].
 Special Fees.

Explores five approaches to contemporary dance scholarship: kinesthetic, ethnographic, historical, interpretive, and aesthetic. Students learn how scholars have used these approaches, and practice their application on video materials and live dance events. Case studies will vary from semester to semester to reflect opportunities for viewing dance locally, the instructor's area of expertise, and available guest artists.

DNCE A395 Advanced Practicum: Performance 1-3 CR
 Contact Hours: 0 + 3-9

Registration Restrictions: Junior or senior standing. Audition and faculty permission.
 Special Note: May be repeated for up to 12 total credits.

Performance practicum for juniors and seniors. Advanced participation in dance production as a dancer, performance artist, or choreographer.

DNCE A465 Advanced Performance and Choreography Workshop 3 CR

Contact Hours: 3 + 0
 Prerequisites: DNCE A302 with minimum grade of C or DNCE A322 with minimum grade of C or DNCE A332 with minimum grade of C.
 Registration Restrictions: Instructor permission by audition required.
 Special Fees.

Special Note: May be repeated three times for credit.

Designed for the advanced student with a focus on multiple skills to assist in the growth of the movement artist as performer and creator. Advanced exploration of the spatial and qualitative aspects of dance technique with the refinement of complex patterning skills and attention to details of dramatic or emotional content. Techniques of improvisation, abstraction, and choreography applied to movement studies as an ongoing class activity. Explorations into the theoretical foundations of designing and structuring the dance class along with the aesthetics and history of contemporary dance technique.

DNCE A490 Selected Topics in Dance 1-3 CR
 Contact Hours: 1-3 + 0
 Registration Restrictions: Junior or senior standing.
 Special Fees.
 Special Note: May be repeated for credit with change of topic.
 Special Note: Additional fees may apply depending on topic.
 Current topics in dance performance and theory resulting from special demands of the dance season or special faculty expertise.

EARLY CHILDHOOD DEVELOPMENT - ECD

*Offered through the College of Education
 Professional Studies Building (PSB), Room 217, 786-4401
<http://ed.uaa.alaska.edu/>*

ECD A105 Introduction to the Field of Early Childhood 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Survey of historical, social, and philosophical foundations of the field. Discusses ethics, developmentally appropriate practices, survey of types of early childhood settings, and personal skills and professional competencies for the early childhood practitioner.

ECD A111 Safe Learning Environments 1 CR
 Contact Hours: 1 + 0
 Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Stresses importance of safe learning environments and competencies which enable students to provide such environments for young children. Emphasis on measures necessary to reduce and prevent accidents.

ECD A112 Healthy Learning Environments 1 CR
 Contact Hours: 1 + 0
 Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Prepares students to provide learning environments for young children which are free of factors contributing to or causing illness.

ECD A113 Learning Environments 1 CR
 Contact Hours: 1 + 0
 Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Emphasizes arrangement of environments conducive to learning styles of children. Includes selection of learning styles of children. Includes selection of materials and equipment, room arrangements, and scheduling.

ECD A121 Physical Activities for Young Children 1 CR
 Contact Hours: 1 + 0
 Special Note: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Stresses essentials of planning centers which provide space, materials, equipment, and activities to promote physical development of children. Includes planning and scheduling activities, selecting equipment and materials.

ECD A122 Cognitive Activities for Young Children 1 CR
 Contact Hours: 1 + 0
 Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Activities and experiences which encourage questioning, probing, and problem solving skills appropriate for different developmental levels and various learning styles of young children.

ECD A123 Communication 1 CR
 Contact Hours: 1 + 0
 Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Activities that help children acquire and use language to communicate their thoughts and feelings. Includes nonverbal communication and understanding others.

ECD A124 Creative Activities for Young Children 1 CR
 Contact Hours: 1 + 0
 Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Experiences, activities, and media that stimulate children to explore and express their creative abilities.

ECD A125 Safe and Healthy Learning Environments 1 CR
 Contact Hours: 1 + 0
 Offered only at Kenai Peninsula College.

Stresses competencies which enable students to provide measures necessary to reduce and prevent accidents. Prepares students to provide learning environments which are free of factors contributing to or causing illness.

ECD A126 Learning Environment/ Physical Activities 1 CR
 Contact Hours: 1 + 0
 Offered only at Kenai Peninsula College.

Emphasizes learning as appropriate to developmental levels and learning styles of children. Includes planning and scheduling activities, selecting equipment and materials to promote physical development of children.

ECD A127 Social/Sense of Self Development 1 CR
 Contact Hours: 1 + 0
 Offered only at Kenai Peninsula College.

Emphasizes providing physical/emotional security for children, helping each child to accept and take pride in his/herself, and to develop a sense of independence.

ECD A131 Guidance and Discipline 1 CR
 Contact Hours: 1 + 0
 Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Information and activities used in providing environments where young children learn and practice appropriate behaviors individually and in groups. Includes influences on behavior promoting self-control, inappropriate practices, and parent involvement.

ECD A132 Social Development 1 CR
 Contact Hours: 1 + 0
 Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Emphasis on social development of young children by the encouragement of empathy and mutual respect among children and adults. Also discussed is the development of cooperation among children and between children and adults.

ECD A210 Guiding Young Children 3 CR
 Contact Hours: 3 + 0
 Prerequisites: ECD A105.
 Registration Restrictions: Departmental Approval; Admission to the School of Education, pre-major status or admission to Associate of Applied Science in Early Childhood Development.

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.

ECD A211 Development of a Sense of Self 1 CR
 Contact Hours: 1 + 0
 Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Presents information and activities to help young children know, accept, and take pride in themselves, and to develop independence. Includes fostering children's self-knowledge and sense of pride, experiences of success, acceptance by others, and realization of their own effectiveness.

ECD 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.

ECD A216 Family and Community Issues: Supporting a Child with Special Needs 3 CR
 Contact Hours: 3 + 0
 Prerequisites: ECD A215.
 Registration Restrictions: If prerequisite is not met, permission of UAS program advisor is required.
 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.

ECD 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.

ECD A218 Understanding Legal and Ethical Issues: Young Children with Special Needs 3 CR

Contact Hours: 3 + 0

Special Fees.

In-depth look at the legal issues involved in working with young children with special needs. Examination of laws ADA and IDEA; IFSP and IEP processes; crisis intervention; mandated reporting of child abuse and neglect; cultural issues; legal guardianship. Confidentiality and service delivery in rural and remote areas stressed.

ECD A221 Families 1 CR

Contact Hours: 1 + 0

Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Emphasis on the importance of positive and productive relationships between families and child development programs. Also discussed is coordination of childrearing efforts of both family and program.

ECD A222 Program Management 1 CR

Contact Hours: 1 + 0

Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Information and activities teaching students to use available resources to ensure effective operation of children's programs. Emphasis on competent organization, planning, and record keeping.

ECD A223 Exploring and Developing Personal Capabilities in Teaching 1 CR

Contact Hours: 1 + 0

Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Stresses awareness of personal qualities, feelings, and values that affect teaching atmosphere, relationships with children, and individual teaching style.

ECD A224 Professionalism 1 CR

Contact Hours: 1 + 0

Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Promotes professional and personal growth among caregivers of young children. Topics include developing philosophical basis for caregiving, goal ethics, networking, and continuing self-actualization.

ECD A225 Professionalism and Program Management 1 CR

Contact Hours: 1 + 0

Offered only at Kenai Peninsula College.

Emphasizes being a competent organizer, planner, record keeper, communicator, and a cooperative coworker. Stresses making decisions based on knowledge of early childhood theories and practices, promoting quality in child care services, and taking advantage of opportunities to improve competence, both for personal and professional growth and for the benefit of children and families.

ECD A226 Guidance/Discipline and Families 1 CR

Contact Hours: 1 + 0

Offered only at Kenai Peninsula College.

Learning to maintain an open, friendly, and cooperative relationship with each child's family, encouraging their involvement in the program and supporting the child's relationship with their family. Stresses providing a supportive environment in which children can begin to learn and practice appropriate and acceptable behaviors as individuals and as a group.

ECD A231 Screening 1 CR

Contact Hours: 1 + 0

Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Stresses activities to help teachers understand purposes of screening young children and use of screening procedures.

ECD A232 Assessment/Recording 1 CR

Contact Hours: 1 + 0

Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Stresses activities to help teachers understand assessment of young children, recording of assessment information, and staffing procedures.

ECD A233 Mainstreaming Preschool Children with Special Needs 1 CR

Contact Hours: 1 + 0

Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Stresses activities to help teachers understand concepts and purposes of mainstreaming special needs preschool children into regular classrooms. Emphasis on rights of special needs children to services and necessary procedures for providing those services under P.L. 94142.

ECD A234 Administration of Early Childhood Programs 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Students should have 3 credits of child development, or concurrent enrollment in child development course work and instructor approval.

Survey course designed for practicing and aspiring administrators of infant/toddler, preschool, or school-age child care programs. Course content includes: organizational leadership and management, financial and legal issues, program development, and community relations.

ECD A241 Infant and Toddler Development 3 CR

Contact Hours: 3 + 0

Prerequisites: ECD A105.

Registration Restrictions: Departmental Approval; Admission to the School of Education, pre-major status or admission to Associate of Applied Science in Early Childhood Development.

Examines the development of infants/toddlers, infant/toddler care programs, role of caregivers, and relationships with families. This course will emphasize cognitive, language, emotional, and motor development, and the importance of relationships in the care and education of infants and toddlers.

ECD A242 Family and Community Partnerships 3 CR

Contact Hours: 3 + 0

Prerequisites: ECD A241 and ECD A210.

Registration Restrictions: Departmental Approval; Admission to the School of Education, pre-major status or admission to Associate of Applied Science in Early Childhood Development.

Examines the importance and complexity of children's families and communities. The course will examine programs that support family-centered principles underlying program planning, implementation, and relationship building.

ECD A289 CDA Assessment 1 CR

Contact Hours: 1 + 0

Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Stresses application and preparation procedures for final child development associate (CDA) credential assessment. Emphasizes steps taken to become CDA certified.

ECD A295A Practicum I 3 CR

Contact Hours: 1 + 2

Prerequisites: ECD A105 and ECD A223 and ECD A224 and DN A145 and PSY A245 and ECD A231 and ECD A232 and ECD A233.

Registration Restrictions: Ten credits of the following: ECD A111, A112, A113, A121, A122, A123, A124, A131, A132, A211, A221, A222.

Special Note: Faculty permission required. Must have faculty permission to take concurrently with ECD A295B.

Supervised field experience in an instructor approved early childhood setting. Emphasis is on planning and conducting children's activities in various program areas and on assisting a lead teacher. Experience includes an initial assessment in all areas of professional competencies. An individual plan for the semester will be developed.

ECD A295B Practicum II 3 CR

Contact Hours: 1 + 2

Prerequisites: ECD A295A.

Special Note: Faculty permission required. Must have faculty permission to take concurrently with ECD A295A.

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.

ECD A301	Observation, Documentation: Understanding Young Children	4 CR
Contact Hours: 3 + 2 Prerequisites: ECD A241 and ECD A210. Registration Restrictions: Departmental Approval; Admission to the School of Education, pre-major status or admission to Associate of Applied Science in Early Childhood Development. Special Fees. Examines the process of observation and documentation as a means to understand and make visible children's learning. The observation and documentation process will be covered as a cycle of inquiry. Formal and informal assessment systems will be covered.		
ECD A303	Young Children in Inclusive Settings	3 CR
Contact Hours: 3 + 0 Prerequisites: ECD 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.		
ECD A304	Environment, Spaces, and Relationships	3 CR
Contact Hours: 3 + 0 Prerequisites: ECD A242 and ECD 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.		
ECD A305	Planning Meaningful Curriculum for Young Children	3 CR
Contact Hours: 3 + 0 Prerequisites: ECD A304. Registration Restrictions: Departmental approval required; admission to College of Education, full-major status. Special Fees. Examines the key elements of curriculum planning for infants/toddlers through third grade. Emphasis is on planning integrated curriculum and planning for inquiry and investigation in the curriculum. Incidental teaching strategies and individualized instruction will be covered.		
ECD A306	Assessment of Young Children	3 CR
Contact Hours: 3 + 0 Prerequisites: ECD 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.		
ECD A401	Infant/Toddler Approaches and Programs	3 CR
Contact Hours: 3 + 0 Prerequisites: ECD A305 and ECD A306. Registration Restrictions: Departmental approval required; admission to College of Education, admission to internship. Corequisite: ECD A495A. 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.		
ECD A402	Preschool Approaches and Programs	3 CR
Contact Hours: 3 + 0 Prerequisites: ECD A305 and ECD A306. Registration Restrictions: Departmental approval required; admission to College of Education, admission to internship. Corequisite: ECD A495B. 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.		
ECD A403	Mathematics and Science in Early Childhood	3 CR
Contact Hours: 3 + 0 Prerequisites: ECD A305 and ECD A306. Registration Restrictions: Concurrent enrollment in ECD A495A or ECD A495C is required. Departmental approval required; admission to College of Education, admission to internship. Special Fees. Examines the principles, developmental concepts, and curriculum designed to promote science and math concepts. Understanding for how young children develop mathematical/scientific thinking and methods of teaching math/science are covered.		

ECD A404	Literacy for Young Children I	3 CR
Contact Hours: 3 + 0 Prerequisites: ECD A305 and ECD A306. Registration Restrictions: Concurrent enrollment in ECD A495A or ECD A495C is required. Departmental approval required; admission to internship. 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.		
ECD A405	Literacy for Young Children II	3 CR
Contact Hours: 3 + 0 Prerequisites: ECD A404. Registration Restrictions: Concurrent enrollment in ECD A495B or ECD A495D is required. Departmental approval required; admission to internship. Continues the examination of the understanding and importance of language and literacy. Course focuses on the methods for teaching reading and writing.		
ECD A406	Creative Expression in Early Childhood	3 CR
Contact Hours: 3 + 0 Prerequisites: ECD A495A or ECD A495C. Registration Restrictions: Concurrent enrollment in ECD A495B or ECD A495D is required. Departmental approval required; admission to internship. Explores principles, methods, and materials for teaching young children music, movement, visual arts, and dramatic play through process-oriented experiences to support divergent thinking.		
ECD A495A	Internship, Infant/Toddler	4 CR
Contact Hours: 0 + 12 Prerequisites: ECD A305 and ECD A306. Registration Restrictions: Departmental approval required; admission to internship. Corequisite: ECD A401, ECD A403 and ECD A404. Grade Mode: Pass/No Pass. Special Note: Placement will be arranged and supervised by the Early Childhood Development/Child Care Program, in partnership with staff from the child care programs. The College of Education may withdraw any student whose work is evaluated by either partner as unsatisfactory. Supervised internship in an infant/toddler setting. Interns work with mentor teachers and demonstrate development of their teaching proficiency. Weekly internship seminar is required.		
ECD A495B	Internship, Preschool	4 CR
Contact Hours: 0 + 12 Prerequisites: ECD A495A. Registration Restrictions: Departmental approval required; admission to internship. Corequisite: ECD A402, ECD A405 and ECD A406. Grade Mode: Pass/No Pass. Special Note: Placement will be arranged and supervised by the Early Childhood Development/Child Care Program, in partnership with staff from the child care programs. The College of Education may withdraw any student whose work is evaluated by either partner as unsatisfactory. Supervised internship in a preschool classroom. Interns work with mentor teachers and demonstrate development of their teaching proficiency. Weekly internship seminar is required.		
ECD A495C	Internship I, Primary	3 CR
Contact Hours: 0 + 9 Prerequisites: ECD A305 and ECD A306. Registration Restrictions: Departmental approval required; admission to internship. Corequisite: ECD A403, ECD A404, ECD A427 and ECD A429. Grade Mode: Pass/No Pass. Special Note: Placement will be arranged and supervised by the Early Childhood Development/Child Care Program, in partnership with staff from the child care programs. The College of Education may withdraw any student whose work is evaluated by either partner as unsatisfactory. Supervised internship in a primary (grades K-3) classroom. Interns work with mentor teachers and demonstrate development of their teaching proficiency. Weekly internship seminar is required.		
ECD A495D	Internship II, Primary	6 CR
Contact Hours: 0 + 18 Prerequisites: ECD A495C. Registration Restrictions: Departmental approval required; admission to internship. Corequisite: ECD A405, ECD A406 and ECD A432. Grade Mode: Pass/No Pass. Special Note: Placement will be arranged and supervised by the Early Childhood Development/Child Care Program, in partnership with staff from the child care programs. The College of Education may withdraw any student whose work is evaluated by either partner as unsatisfactory. Supervised internship in a primary (grades K-3) classroom. Interns will continue to work with their mentor teachers and demonstrate continued development of their teaching proficiency. Weekly internship seminar is required.		

ECD 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.		
ECD 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.		
ECD 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 childrearing 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.		
ECD 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.		

ECONOMICS - ECON

*Offered through the College of Business & Public Policy
Business Education Building (BEB), Room 309, 786-4100
www.cbpp.uaa.alaska.edu*

Students taking any ACCT, BA, CIS, ECON, 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 annotated. Does not apply to Eagle River.

ECON A201	Principles of Macroeconomics	3 CR
Contact Hours: 3 + 0 Course Attributes: UAA GER Social Sciences Requirement. Special Note: Offered Fall and Spring Semesters. Introduction to economics; analysis and theory of national income; money and banking; public finance and taxation; and international trade. 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. Special Note: Offered Fall and Spring Semesters. Theory of prices and markets; industrial organization; public policy; income distribution; and contemporary problems of labor and business.		

ECON A210	Environmental Economics and Policy	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A105. Registration Restrictions: If prerequisite is not satisfied, instructor permission is required. Crosslisted with: ENVI A210. Survey of environmental policy, emphasizing market-oriented approaches to problems. Present value, cost-benefit analysis, and nonmarket valuation tools are developed and applied to Alaskan and global environmental and natural resource issues.		
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 A321	Intermediate Microeconomics	3 CR
Contact Hours: 3 + 0 Prerequisites: ECON A201 and ECON A202 and [MATH A200 or MATH A272]. Special Note: Offered as Demand Warrants. 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 and ECON A350. Special Note: Offered Spring Semesters. Concepts and measurement of national income; analysis of aggregate demand and supply and their relationship to prices, employment, and growth.		
ECON A337	Economic Development	3 CR
Contact Hours: 3 + 0 Prerequisites: ECON A201 and ECON A202. Problems of economic development illustrated with case studies; theories of growth and development; and analysis of major policy issues. Emphasis is on third world countries.		
ECON A350	Money and Banking	3 CR
Contact Hours: 3 + 0 Prerequisites: ECON A201 and ECON A202. Special Note: Offered as Demand Warrants. Sources and uses of money and credit in modern society; regulation of money and credit and its impact on the U.S. Economy.		
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 A359	Industrial Organization and Public Policy	3 CR
Contact Hours: 3 + 0 Prerequisites: ECON A201 and ECON A202. Analysis of different market structures and how these market structures impact resource allocation. Additional topics include social control of business through 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 A360	Modern Economic History	3 CR
Contact Hours: 3 + 0 Prerequisites: HIST A102 and ECON A201. Crosslisted with: HIST A360. Surveys economic history of the modern era (1800 to present). Emphasis will be placed on Western Europe and the U.S. Additional coverage will be given to Japan, the Soviet Union and one Third World Nation.		
ECON A412	Econometrics	3 CR
Contact Hours: 3 + 2 Prerequisites: ECON A201 and ECON A202 and BA A273. Special Note: Offered Fall Semesters. Application of statistical methods in testing economic theories and estimating economic relationships. Emphasizes multiple regression analysis. The student is expected to spend two hours per week utilizing the computer lab.		
ECON A415	Urban and Regional Economics	3 CR
Contact Hours: 3 + 0 Prerequisites: ECON A201 and ECON A202. Economic issues examined at subnational level, such as states, regions, and cities. Includes the location of economic activity in regions, relationship between regions, models of economic growth, the structure of regional economics, housing and land use issues, and urban and regional economic policy.		

ECON A421	Labor Economics	3 CR
Contact Hours: 3 + 0 Prerequisites: ECON A201 and ECON A202. Labor market analysis; employment and unemployment, wage differences, structure and composition of the labor force; economic aspects of unionism; labor legislation; and social insurance.		
ECON A425	History of Economic Thought	3 CR
Contact Hours: 3 + 0 Prerequisites: ECON A201 and ECON A202. Registration Restrictions: 3 credits of upper-division courses in economics or other social sciences. Economic thought from the physiocrats to the present; classical and neoclassical theory, exponents and critics; and contemporary development in economic theory.		
ECON A429	Business Forecasting	3 CR
Contact Hours: 3 + 3 Prerequisites: ECON A201 and ECON A202 and CIS A110 and BA A273. Special Note: Offered Fall and Spring Semesters. Methods of business forecasting; theories and analysis of fluctuations in economic activity. The student is expected to spend two hours per week utilizing the computer lab.		
ECON A435	Economics of Resources	3 CR
Contact Hours: 3 + 0 Prerequisites: ECON A201 and ECON A202. Economic analysis of resource use and development. Topics include economics of nonrenewable resources, forestry, and fisheries; environmental economics, and public resource management. Examples are presented of Alaska resource development and management experience.		
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. Work experience in an approved position with supervision and training in various phases of applied economics or economic research.		
ECON A463	International Economics	3 CR
Contact Hours: 3 + 0 Prerequisites: ECON A201 and ECON A202. Special Note: Offered Fall Semesters. Pure theory of international trade; comparative cost, terms of trade, and factor movements, international disequilibrium; balance of payments and its impact on national economy, capital movement, economic development through international trade.		
ECON A488	Seminar in Economic Research	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Faculty permission. Methods of economic research, based on analysis of recent economic research projects. Faculty and other researchers discuss research methodologies, problems encountered in carrying out research projects, and results obtained from their research. A formal paper is required.		
ECON A602	Introduction to Economics for Managers	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Acceptance into the MBA program. Special Note: Does not satisfy the minimum 30 credit hour requirement of any Master's degree program at UAA. Students are expected to have a working knowledge of computer spreadsheet programs. Offered Fall Semesters. Introduction to the theory of prices and markets; national income analysis; and money and banking. Primary concentration on the fundamentals useful in the management of business.		
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.		

ECON A650	Alaska Economic Issues	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Bachelor's degree in Education. Applies economic concepts and methodology to current issues related to Alaska's economic development. Includes the effects of changing oil revenues, passage of Alaska Native Claims Settlement Act, local hire legislation, changing state population, etc. Alaska business leaders representing relevant industries and institutions are utilized as speakers in order to involve participants in personal interaction with decision makers.		
ECON A651	Selected Topics in Economics for Educators	1-3 CR
Contact Hours: 1-3 + 0 Registration Restrictions: Bachelor's degree in Education. Special Fees. Selected economics topics of special relevance to specific subjects in school curriculum, kindergarten through senior high school.		

EDUCATION - ED

*Offered through the College of Education
Professional Studies Building (PSB), Room 217, 786-4401
<http://ed.uaa.alaska.edu/>*

ED A101	Introduction to Education	3 CR
Contact Hours: 3 + 0 Special Fees. Introductory course for students exploring education as a possible career choice. Covers the history of American education, an examination of contemporary issues in education, and basic classroom observational techniques. Students self-assess personal profile against characteristics of effective teachers. Field experience required.		
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 A192	Tutoring Adult Learners	1 CR
Contact Hours: 1 + 0 Grade Mode: Pass/No Pass. Offered only at Matanuska-Susitna College. A workshop on tutoring techniques/methods for adult learners. Exposes appropriate approaches suitable for teaching the adult learners. Activities include instruction and core competencies in basic education. Tutoring techniques include the "Laubach way to reading" and the "Ready to read" approach when teaching the adult learners. Activities include administering diagnostic tests and analyzing results in preparation of lesson plans for the adult learner and a review of literacy strategies for tutors teaching adults.		
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 A300 Philosophical and Social Context of American Education 3 CR

Contact Hours: 3 + 0

Prerequisites: PSY A245.

Registration Restrictions: Departmental Approval Required; Admission to the School of Education.

Special Fees.

Explores significant educational movements, assumptions, theories, and research in the areas of educational philosophy and history in order 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.

ED A301 Foundations of Literacy and Language Development 3 CR

Contact Hours: 3 + 0

Prerequisites: PSY A245.

Registration Restrictions: Departmental Approval Required; Admission to the School of Education.

Special Fees.

Explores how children learn language, similarities, and difference between first and second language acquisition, how culture influences language and literacy development, and how language is taught. Course tracks language acquisition from birth through the school years. Field experience required.

ED A302 Foundations of Educational Technology 2 CR

Contact Hours: 2 + 0

Prerequisites: PSY A245.

Registration Restrictions: Departmental Approval Required; Admission to the School of Education.

Grade Mode: Pass/No Pass.

Special Fees.

Provides prospective teachers with the general skills needed to integrate technology into their teaching and learning. It 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.

ED A303 Foundations of Teaching and Learning 3 CR

Contact Hours: 3 + 0

Prerequisites: ED A301 and PSY A245.

Registration Restrictions: Departmental Approval Required; Admission to the School of Education.

Special Fees.

Extends understanding of cognitive, affective, and communicative development of children and youth and connects these to current theoretical and practical research in teaching and learning. Emphasis will be on models of teaching, curriculum planning, and assessment of learning as the foundation for a developmentally appropriate teaching practice for the inclusive classrooms. Field experience required.

ED A424 Foundations of Modern Educational Practice 6 CR

Contact Hours: 6 + 0

Examines significant educational movements, theories, and research in the areas of educational psychology, philosophy, and history in order to develop a framework for professional educational practice. Focuses on the teacher's role and responsibilities in student achievement, the creation of effective strategies for continued professional development, school and program governance, and recognition of the conditions necessary to gain parental and public support for education.

ED A425 Teaching Reading in Elementary Schools 4 CR

Contact Hours: 4 + 0

Prerequisites: ED A300 and ED A303 and EDSE A482.

Registration Restrictions: Departmental Approval Required; Admission to Internship. Corequisite: ED A495A.

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.

ED A426 Teaching Mathematics in Elementary Schools 3 CR
 Contact Hours: 3 + 0

Prerequisites: ED A300 and ED A303 and EDSE A482 and MATH A205.

Registration Restrictions: Departmental Approval Required; Admission to Internship.

Corequisite: ED A495A.

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.

ED A427 Teaching Social Studies in Elementary Schools 2 CR

Contact Hours: 2 + 0

Prerequisites: ED A300 and ED A303 and EDSE A482.

Registration Restrictions: Departmental Approval Required; Admission to Internship.

Corequisite: ED A495A.

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.

ED A428 Teaching Science in Elementary Schools 2 CR

Contact Hours: 2 + 0

Prerequisites: ED A300 and ED A303 and EDSE A482.

Registration Restrictions: Departmental Approval Required; Admission to Internship.

Corequisite: ED A495A.

Special Fees.

An inquiry based approach to teaching science. The course explores standards-based teaching and learning of science in K-6 classrooms. Concurrent enrollment in internship required.

ED A429 Teaching Health Education in Elementary Schools 2 CR

Contact Hours: 2 + 0

Prerequisites: ED A300 and ED A303 and EDSE A482 and PE A145.

Registration Restrictions: Departmental Approval Required; Admission to Internship.

Corequisite: ED A495A.

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.

ED A430 Teaching Language Arts in Elementary Schools 3 CR

Contact Hours: 3 + 0

Prerequisites: ED A300 and ED A303 and EDSE A482.

Registration Restrictions: Departmental Approval Required; Admission to Internship.

Corequisite: ED A495B.

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.

ED A431 Creative Expression: Music, Art, and Drama for Elementary Teachers 3 CR

Contact Hours: 1 + 4

Prerequisites: ED A300 and ED A303 and EDSE A482.

Registration Restrictions: Departmental Approval Required; Admission to Internship.

Corequisite: ED A495B.

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.

ED A432 Physical Education for Elementary Classroom Teachers 1 CR

Contact Hours: 1 + 0

Prerequisites: ED A300 and ED A303 and EDSE A482 and PE A145.

Registration Restrictions: Departmental Approval Required; Admission to Internship.

Corequisite: ED A495B.

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.

ED 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.		
ED A478	Issues in Alaska Native Education, K-12	3 CR
Contact Hours: 2 + 2 Registration Restrictions: Departmental approval required: Admission to the Post-baccalaureate Teacher Education Program. Provides students with an analysis of the traditional preparation of Alaska Natives for adult roles in society and contrasts this with Western education. Students examine the assumptions of both systems and assess the effectiveness of the current educational programs, policies, and institutions. The roles of teachers and parents, and the relationship between schools and communities are considered. Course includes extensive integration of technology for learning.		
ED A487	Field Experiences: Teacher Education	1-11 CR
Contact Hours: 0 + 2-22 Registration Restrictions: Teacher Education faculty approval. Grade Mode: Pass/No Pass. 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 School of Education		
ED A495A	Internship I	3 CR
Contact Hours: 0 + 9 Prerequisites: ED A300 and ED A303 and EDSE A482. Registration Restrictions: Departmental Approval Required; Admission to Internship. Corequisite: ED A425, ED A426, ED A427, ED A428 and ED A429. Grade Mode: Pass/No Pass. Special Fees. Special Note: Offered Fall Semesters. Supervised internship in an educational facility. Interns work with mentor teachers and demonstrate development of their teaching proficiency. Weekly internship seminar required. Course begins in accordance with the K-12 school year calendar, not the university academic year calendar.		
ED A495B	Internship II	6 CR
Contact Hours: 0 + 18 Prerequisites: ED A495A. Registration Restrictions: Departmental Approval Required; Admission to Internship. Corequisite: ED A430, ED A431 and ED A432. Grade Mode: Pass/No Pass. Special Fees. Special Note: Offered Spring Semesters. 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. Course begins in accordance with the K-12 school year calendar, not the university academic year calendar.		
ED A603	Developing Literacy: Early Childhood Through Grade Twelve	3 CR
Contact Hours: 3 + 0 Prerequisites: ED A621. Registration Restrictions: Current Type A 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.		
ED A604	Content Area Literacy	3 CR
Contact Hours: 3 + 0 Prerequisites: ED A603 and ED A610 and ED A621. Registration Restrictions: Current Type A Teaching Certificate Special Fees. 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.		

ED A606	Instruction and Assessment in Reading I	3 CR
Contact Hours: 2 + 3 Prerequisites: ED A603 and ED A610 and ED A621. Registration Restrictions: Current Type A 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.		
ED A608	Mathematical Problem Solving: Overview for K-8 Teachers	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Current Type A 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.		
ED A609	Instruction and Assessment in Reading II	3 CR
Contact Hours: 0 + 9 Prerequisites: ED A606. Registration Restrictions: Certified teacher, reading endorsement participant, graduate student School of Education. 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.		
ED A610	Reading and Cognition	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Certified teacher, reading endorsement participant, graduate student School of Education. 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.		
ED 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.		
ED A614	Numerations and Operations: Content and Pedagogy for K-8 Teachers	3 CR
Contact Hours: 3 + 0 Prerequisites: ED A613. Registration Restrictions: Current Type A 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.		
ED A618	Literature and Reading: Supporting Readers in Grades K-12	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Certified teacher. Reading endorsement participant, graduate student School of Education. Special Fees. 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.		

ED A621	Culture, Language and Literacy	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate standing in the School of Education or faculty permission. 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.		
ED A622	Philosophy of Education	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate standing in School of Education. Basic philosophic concepts and their historical development; philosophy applied to education and related issues and problems; examination of contributions of outstanding educators.		
ED A626	Technology in Teaching and Learning	3 CR
Contact Hours: 3 + 0 Prerequisites: ED A150. Registration Restrictions: Prior experience using a PC and graduate standing. Special Fees. The role of technology in restructuring learning environments. Explains how teaching and learning environments can be enhanced through different approaches to using technology. A broad range of technologies used in education will be explored, centering around microcomputers and optical hardware. Activities include hands-on experiences with applications software and hypermedia.		
ED A627	Education Research	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate standing in School of Education. Techniques of education research; selection of topics and problems; data gathering; interpretation and preparation of reports.		
ED A629	Multimedia Tools for Learning	3 CR
Contact Hours: 3 + 0 Prerequisites: ED A626. 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.		
ED A630	Language and Learning in Secondary Schools	2 CR
Contact Hours: 2 + 0 Prerequisites: ED A424. Registration Restrictions: Admission to the Master of Arts in Teaching Program. Corequisite: ED A695A. Special Note: Concurrent enrollment in internship required. Examines how adolescents learn oral and written language, similarities and differences between first and second language acquisition, and how culture influences language and literacy development. Examines language acquisition from birth through the secondary school years with a focus on the cognitive academic language demands of content area classrooms. Emphasis on developing research-based teaching strategies for supporting all aspects of cognitive academic language development, including reading, oral language, writing, and visual literacy.		
ED A631	Advanced Educational Psychology	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate standing in School 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.		
ED 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.		

ED A644	Developing a Community of Learners in Middle/High School	3 CR
Contact Hours: 3 + 0 Prerequisites: ED A424. Registration Restrictions: Admission to the Master of Arts in Teaching Program. Corequisite: ED A695A. Special Note: Concurrent enrollment in internship or appropriate methods course required. Examines significant educational movements, theories, legislation, and research in the areas of teaching, learning, and human development in order to develop a framework for professional educational practice in middle/secondary classrooms. Focuses on the teacher's role and responsibilities in student learning, development, and academic achievement, with attention given to the development of classroom learning communities that meet the diverse needs of 7-12 students and to teachers as members of their own learning communities.		
ED A648	Literacy Development in the Content Areas	2 CR
Contact Hours: 2 + 0 Prerequisites: CTE A695A or ED A695A. Registration Restrictions: Admission to the Master of Arts in Teaching Program. Corequisite: ED A695B. Special Note: Concurrent enrollment in internship or appropriate methods course required. Prepares future middle and high school teachers to integrate listening, speaking, reading, writing, and viewing into their content area classrooms. Includes analysis and evaluation of current learning theory, models, and best practices for literacy development in order to design appropriate pedagogy.		
ED A649	Capstone Seminar: Inquiry in Teaching and Learning	3 CR
Contact Hours: 3 + 0 Prerequisites: ED A695B. Registration Restrictions: Admission to the Master of Arts in Teaching Program. 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.		
ED 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.		
ED A652	Educational Telecommunications and the Internet	3 CR
Contact Hours: 2 + 1 Prerequisites: ED 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.		
ED 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 and applications to the Pre-K-12 classroom.		
ED A655	Implementing the Standards: Integrating Educational Technology into the Curriculum	3 CR
Contact Hours: 3 + 0 Prerequisites: ED A629 and ED 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.		
ED A656	Middle School: Transescent Years	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Secondary or elementary Type A certification. Theory and practice of middle school education; the transescent student, curriculum modification and classroom management through interdisciplinary teams. Characteristics of the transescent student's developmental needs are covered along with instructional resources, team planning, instructional strategies and classroom management.		

ED A657	Educational Technology Portfolio Development and Assessment Center	3 CR
Contact Hours: 2 + 3 Prerequisites: ED A655. Registration Restrictions: Graduate Standing. Special Fees. Focuses on building an Educational Technology Electronic Teaching Portfolio and assessing that portfolio against national and state standards.		
ED A662	Teaching in the Middle School	3 CR
Contact Hours: 3 + 0 Prerequisites: (ED A687 or concurrent enrollment). Registration Restrictions: Type A certification (elementary or secondary). Curricular and instructional modifications to accommodate the middle school student's developmental needs. Emphasizes instructional team planning, core courses and interdisciplinary instruction. A variety of appropriate instructional and management strategies will be demonstrated: cooperative learning, inquiry, concept attainment, Taba, and computer technology.		
ED A663A	Middle/High School English/Language Arts T2## Methods I	4 CR
Contact Hours: 4 + 0 Prerequisites: ED A424. Registration Restrictions: Admission to the Master of Arts in Teaching Program. Corequisite: ED A695A. Special Note: Concurrent enrollment in internship required. Provides students with the fundamentals of standards-based curriculum and assessment for the diverse student population in secondary classrooms. Includes an overview of the content areas typically taught in secondary English/Language Arts curriculum. Integrates technology, health enhancement, literacy, and education for special populations.		
ED A663B	Middle/High School English/Language Arts Methods II	2 CR
Contact Hours: 2 + 0 Prerequisites: ED A663A. Registration Restrictions: Admission to the Master of Arts in Teaching Program. Corequisite: ED A695B. Special Note: Concurrent enrollment in internship required. Provides students with the opportunity to develop content pedagogy knowledge by connecting theoretical knowledge and understanding of human development and learning with both general principles of instruction and content-specific strategies.		
ED A664A	Middle/High School Social Studies Methods I	4 CR
Contact Hours: 4 + 0 Prerequisites: ED A424. Registration Restrictions: Admission to the Master of Arts in Teaching Program. Corequisite: ED A695A. Special Note: Concurrent enrollment in internship required. Assists in developing professional teaching practices appropriate for middle/high school social studies classrooms. Exposes to current research and scholarship regarding middle and high school students' learning and conceptual development in history and social studies and corresponding pedagogy. Includes examination of social studies foundations, as well as content and materials evaluation and selection, standards-based curriculum design, and classroom-based performance assessment strategies.		
ED A664B	Middle/High School Social Studies Methods II	2 CR
Contact Hours: 2 + 0 Prerequisites: ED A664A. Registration Restrictions: Admission to the Master of Arts in Teaching Program. Corequisite: ED A695B. Special Note: Concurrent enrollment in internship required. Offered Spring semester. Assists in continuing development of professional teaching practices appropriate for middle/high school social studies classrooms. Examines current research and scholarship about teaching and learning specific to social studies, including cooperative and collaborative learning, social studies literacy, and assessment strategies, that will facilitate application in the internship classroom. Focuses on reflective analysis of teaching and learning in social studies.		

ED A665A	Middle/High School Mathematics Methods I	4 CR
Contact Hours: 4 + 0 Prerequisites: ED A424. Registration Restrictions: Admission to the Master of Arts in Teaching Program. Corequisite: ED A695A. Special Note: Concurrent enrollment in internship required. Provides students with the fundamentals of standards-based curriculum planning and assessment for the diverse student population in middle/high school mathematics classrooms. Includes topics such as mathematics education reform, constructing mathematical knowledge, developing mathematics curricula, designing mathematics teaching units, creating environments conducive for doing mathematics, monitoring student progress, and evaluating mathematics achievement.		
ED A665B	Middle/High School Mathematics Methods II	2 CR
Contact Hours: 2 + 0 Prerequisites: ED A665A. Registration Restrictions: Admission to the Master of Arts in Teaching Program. Corequisite: ED A695B. Special Note: Concurrent enrollment in internship required. Builds upon foundation of Middle/High School Mathematics Methods I. Provides the fundamentals of reflecting on and evaluating standards-based middle/secondary school mathematics teaching for diverse student populations. Includes topics such as implementing standards-based instruction, assessing individual student learning, ensuring standards and equity in group assessments, and becoming a professional mathematics teacher.		
ED A669A	Middle/High School Science Methods I	4 CR
Contact Hours: 4 + 0 Prerequisites: ED A424. Registration Restrictions: Admission to the Master of Arts in Teaching Program. Corequisite: ED A695A. Special Fees. Special Note: Concurrent enrollment in internship required. Provides the fundamentals of standards-based curriculum planning and assessment for the diverse student population in secondary science classrooms. Includes an overview of the content areas typically taught in secondary science curriculum. Exposes to current basic and applied research regarding middle and high school students' learning and conceptual development in science and corresponding pedagogy. Integrates technology, health enhancement, disciplinary integration, literacy, and education for special populations. Students will learn to assess and modify existing inquiry-based and active learning modules for use in their classrooms.		
ED A669B	Middle/High School Science Methods II	2 CR
Contact Hours: 2 + 0 Prerequisites: ED A669A. Registration Restrictions: Admission to the Master of Arts in Teaching Program. Corequisite: ED A695B. Special Fees. Special Note: Concurrent enrollment in internship required. Provides 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.		
ED 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.		
ED A691	Current Topics in Second Language Education	1-3 CR
Contact Hours: 1-3 + 0 Registration Restrictions: Basic fluency in a second language desirable and graduate standing. Crosslisted with: LANG A691. 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.		

ED A695A	Internship I	3 CR
Contact Hours: 0 + 9		
Prerequisites: ED A424 and ED A478.		
Registration Restrictions: Admission to the Master of Arts in Teaching Program.		
Grade Mode: Pass/No Pass.		
Crosslisted with: CTE A695A.		
Special Fees.		
Special Note: Begins in accordance with the K-12 school year calendar, not the university academic year calendar.		
Special Note: Concurrent enrollment in appropriate methods course required.		
Supervised internship in a public school. Requires participation in a bi-weekly seminar with an emphasis on theory-based inquiry into teaching and learning.		
Placement arranged and supervised by the College of Education in partnership with staff from the public school site.		
ED A695B	Internship II	9 CR
Contact Hours: 0 + 27		
Prerequisites: ED A695A.		
Registration Restrictions: Admission to the Master of Arts in Teaching Program.		
Grade Mode: Pass/No Pass.		
Crosslisted with: CTE A695B.		
Special Fees.		
Special Note: See advisor prior to registering to determine the number of credits needed to meet program standards.		
Special Note: Begins in accordance with the K-12 school year calendar, not the university academic year calendar.		
Special Note: Concurrent enrollment in appropriate methods course required.		
Continuation of supervised internship in a public school. Requires participation in a bi-weekly seminar with an emphasis on theory-based inquiry into teaching and learning. Placement arranged and supervised by the College of Education in partnership with staff from the public school site.		
ED A698	Individual Research	1-6 CR
Contact Hours: 1-6 + 0		
Prerequisites: (ED A627 or concurrent enrollment).		
Registration Restrictions: Faculty permission.		
Grade Mode: Pass/No Pass.		
As directed by graduate committee.		
ED A699	Thesis	1-6 CR
Contact Hours: 1-6 + 0		
Prerequisites: (ED A627 or concurrent enrollment).		
Registration Restrictions: Faculty permission.		
Grade Mode: Pass/No Pass.		
As directed by graduate committee.		

EDUCATION-ADULT EDUCATION - EDAE

Offered through the College of Education

Professional Studies Building (PSB), Room 217, 786-4401

<http://ed.uaa.alaska.edu/adult/>

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: Bachelor's degree from an accredited university.		
Current principles and theories of human resource development. Applicable to adult educators working in a variety of human resource systems to 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 A657	Leadership	3 CR
Contact Hours: 3 + 0		
Registration Restrictions: Graduate Standing.		
Explores concepts, theories, and approaches concerning leadership, with particular emphasis on how they apply to adult and continuing education. Application of leadership ideas to improve decision making and problem solving skills, enhance effectiveness, and predict outcomes. Examines personal leadership styles and philosophies of leadership and leadership development.		

EDAE A658	Organization and Administration of Adult Education	3 CR
Contact Hours: 3 + 0		
Registration Restrictions: Graduate Standing.		
Examines organizational models utilized by the diverse range of institutions and agencies involved in adult and continuing education and extension programs. Includes diversity of programs, organizational structures, goals and programs. Examines finance and facilities, personnel, program and community relations.		
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.		
Development of effective 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 A678	Curriculum and Program Planning in Adult Education	3 CR
Contact Hours: 3 + 0		
Registration Restrictions: Graduate Standing.		
Identification of fundamental principles and concepts of program planning and curriculum development. Specifically reviews education and training programs and curriculum designed for the adult learner and offers practical applications of the ideas in the course.		
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	Advanced Practicum in Adult Education	1-6 CR
Contact Hours: 0 + 3-18		
Registration Restrictions: Students must be in the final phase of their program. Faculty permission.		
Grade Mode: Pass/No Pass.		
Provides supervised field experience within the broad realm of adult education.		
EDAE A698	Individual Research	1-3 CR
Contact Hours: 0 + 3-9		
Prerequisites: (ED A627 or concurrent enrollment).		
Registration Restrictions: Acceptance in adult education master's program, and adult education faculty permission.		
Grade Mode: Pass/No Pass.		
Completion of a master's individual research project through quality research studies.		
EDAE A699	Thesis	1-3 CR
Contact Hours: 0 + 3-9		
Prerequisites: (ED A627 or concurrent enrollment).		
Registration Restrictions: Acceptance in adult education master's program, and adult education faculty permission.		
Grade Mode: Pass/No Pass.		
Completion of master's thesis through quality research studies.		

ENGINEERING DESIGN AND DRAFTING - EDD

*Offered through Kenai Peninsula College
34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.
www.kpc.alaska.edu*

EDD A288 Computer Aided Drafting 4 CR

Contact Hours: 3 + 2
Registration Restrictions: Completion of a high school or college drafting course.
Offered only at Kenai Peninsula College.

Introduction to computer aided drafting, instruction, and hands-on application using AutoCAD menu driven systems for data manipulation. Drawing production and drawing plotting.

EDUCATIONAL DEVELOPMENT AND LEADERSHIP - EDL

*Offered through the College of Education
Professional Studies Building (PSB), Room 217, 786-4401
http://ed.uaa.alaska.edu/*

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.
Special Fees.

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 school finance, personnel, and labor relations. Contributing school administrators augment academic instruction and offer a practical touchstone for students' research and writing.

EDL A671 Superintendent Stewardship and Systematic 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.
Special Fees.

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.
Special Fees.

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 superintendency.

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.

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.

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.

EDUCATION-PHYSICAL EDUCATION - EDPE

Offered through the College of Education

Professional Studies Building (PSB), Room 217, 786-4401

The EDPE courses are part of the Health, Outdoor, and Physical Education program

<http://ed.uaa.alaska.edu/>

EDPE A140 Wilderness Adventures 1-3 CR

Contact Hours: .5 + 1.5-4.5

Special Fees.

Special Note: One and two day weekend field trips.

Survey course providing introduction and overview of back country skills. Specific topics to be covered depend on season and may include hiking, backpacking, camping, canoeing, rock climbing, or skiing. Emphasis on safety, minimum impact skills, and group cooperation.

EDPE A145 Alaska Native Survival Techniques 3 CR

Contact Hours: 2 + 2

Northern survival from a traditional Native perspective. Covers overview of Native cultures, and hands-on practice of emergency shelter construction techniques, clothing and equipment, travel, and subsistence. Includes comparison and contrast of Western survival and Native techniques.

EDPE A170 Survey of Adventure Education Activities 1 CR

Contact Hours: .5 + 1

Special Fees.

Overview of adventure education activities including initiatives and challenge courses. Emphasis on participation and reflection, with an introduction to theoretical underpinnings.

EDPE A200 Varsity Athletics 1 CR

Contact Hours: 0 + 3

Registration Restrictions: NCAA

Grade Mode: Pass/No Pass.

Special Note: May be repeated three times. One credit per academic year per sport.

Student-athletes will be required to successfully participate in team meetings, conditioning, practice, competition, and other required athletically related activities.

EDPE A432 Classroom Teaching of Health Enhancement 3 CR

Contact Hours: 2 + 3

Registration Restrictions: General Education degree requirements and admission to the School of Education.

Philosophy, resource materials, group activities, and program planning; participation required to gain knowledge, values, and skills needed to teach health and physical education to elementary school-aged children. Students will observe health and/or physical education lessons in appropriate educational settings.

EDUCATION-SPECIAL EDUCATION - EDSE

Offered through the College of Education

Professional Studies Building (PSB), Room 217, 786-4401

<http://sped.uaa.alaska.edu/>

EDSE A212 Human Development and Learning 3 CR

Contact Hours: 3 + 0

Corequisite: EDSE A212L

Registration Restrictions: Departmental approval.

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

Corequisite: EDSE A212

Registration Restrictions: Departmental approval.

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 services to young children.

EDSE A336 Classroom Management and Collaboration 3 CR

Contact Hours: 3 + 0

Prerequisites: ED A201 and (ED A321 or concurrent enrollment) and (ED A320 or concurrent enrollment).

Registration Restrictions: Admission to Teacher Education.

Special Fees.

Theories of classroom management as they pertain to early childhood, elementary, middle school/transescent, and high school age groupings will be discussed, with special emphasis on strategies appropriate for a diverse classroom population. Techniques for creating a positive and preventive learning environment will be stressed. Students will learn how to be successfully involved in professional collaboration with school staff, support staff and outside agencies.

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 School of Education; Admission to the Special Education Program.

Special Fees.

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. Field experience required.

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 School 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. Field experience required.

EDSE A419 Diversity in the Classroom 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Admission to School 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 Internship.

Corequisite: EDSE A495A.

Special Fees.

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. Field experience required.

EDSE A460 Exceptional Learner 3 CR

Contact Hours: 3 + 0

Prerequisites: EDSE A312.

Registration Restrictions: Admission to School of Education.

Special Fees.

Introduction to the field of special education. Covers the nature and characteristics of various physical and mental exceptionalities included in the special education population.

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
 Prerequisites: PSY A245.
 Registration Restrictions: Department approval required; Admission to the School of Education.
 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. Field experience required.

EDSE A483 Language and Literacy: Assessment and Interventions 3 CR

Contact Hours: 3 + 0
 Prerequisites: ED A301.
 Registration Restrictions: Departmental approval required; Admission to the School of Education; Admission to the Special Education Program.

Development, implementation, and evaluation of IEPs for students with language and literacy difficulties. Instructional procedures for designing and delivering reading instruction and writing in content areas that will include findings from brain research, emergent literacy, assessment, primary and intermediate decoding and comprehension strategies, and monitoring progress. Field experience required.

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 School of Education; 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. Field experience required.

EDSE A495A Internship in Special Education 6 CR

Contact Hours: 0 + 18
 Prerequisites: PSY A245.
 Registration Restrictions: Departmental approval required; Admission to Internship.
 Corequisite: EDSE A422.
 Grade Mode: Pass/No Pass.
 Special Fees.

Field experience with individuals who have disabilities in public schools and affiliated facilities. Assignments vary across areas of teaching specialization. Includes weekly seminar.

EDSE A610 Assessment: Behavior and Learning 3 CR

Contact Hours: 3 + 0
 Prerequisites: (EDSE A460 or concurrent enrollment) and (EDSE A614 or concurrent enrollment).
 Registration Restrictions: Graduate Standing.
 Special Fees.

Techniques and methods for assessing students who have disabilities. Focuses on the purposes and assumptions of assessment, testing terminology and statistics, and the administration of formal and informal assessment procedures.

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 A612 Curriculum and Instruction in Special Education 3 CR

Contact Hours: 3 + 0
 Prerequisites: (EDSE A460 or concurrent enrollment).
 Registration Restrictions: Graduate Standing.
 Special Fees.

Addresses curriculum development and implementation for students with disabilities. Includes writing Individual Education Programs and using effective classroom management practices.

EDSE A614 Beginning Internship in Special Education 3 CR
 Contact Hours: 1 + 6

Prerequisites: (EDSE A460 or concurrent enrollment) and (EDSE A610 or concurrent enrollment) and (EDSE A612 or concurrent enrollment).
 Registration Restrictions: Admission to Endorsement Program in Special Education.
 Grade Mode: Pass/No Pass.
 Special Fees.

Field experience with children or adolescents who have disabilities in public schools and other school programs. Assignments vary across areas of teaching specialization. Includes weekly seminar.

EDSE A620 Advanced Internship in Special Education 3-6 CR

Contact Hours: 1 + 6-15
 Prerequisites: EDSE A460 and EDSE A610 and EDSE A612 and EDSE A614.
 Registration Restrictions: Admission to the Endorsement Program in Special Education and graduate standing. Other requirements as specified on Special Education Internship Application.
 Grade Mode: Pass/No Pass.
 Special Fees.

Special Note: Students must be admitted to the Endorsement Program in Special Education and complete an application for EDSE A620 by a specified deadline each semester. See advisor for specific information.

Supervised field experience with children and/or adolescents who have disabilities in public schools and other school programs. Assignments vary across areas of teaching specialization. Number of hours and weeks vary with credits.

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 Educational Strategies in Special Education 3 CR

Contact Hours: 3 + 0
 Prerequisites: EDSE A460 and EDSE A610 and EDSE A612.
 Registration Restrictions: Admission to Endorsement Program in Special Education and graduate standing.
 Special Fees.

Presents advance material regarding instruction of children and adolescents with special needs. Reviews theoretical basis for selection of instructional strategies and includes specific methods for teaching individuals and groups in inclusive educational settings.

EDSE A622Y Strategies: 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 A637 Inclusive Teaching and Learning in Secondary School 2 CR

Contact Hours: 2 + 0
 Prerequisites: ED A424.
 Registration Restrictions: Admission to the Master of Arts in Teaching Program.
 Corequisite: ED A695A.
 Special Note: Concurrent enrollment in internship required.

Focuses on inclusive education, that is, the inclusion of students with special learning needs and disabilities in the regular classroom. Emphasis on teaching and learning for all the students in the secondary 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 A640 Advanced Theories of Disabilities 3 CR

Contact Hours: 3 + 0
 Registration Restrictions: Graduate Standing.
 Special Fees.

In-depth analysis and evaluation of theories regarding students who are identified as having disabilities. Emphasizes definitional and causal issues, characteristics of students and how their development and learning are affected by special needs.

EDSE A642	Current Trends in Special Education	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate Standing. Special Fees. Examines current trends and issues in Special Education and related fields. Provides a forum for students to develop positions on issues and develop knowledge in areas of professional interest.		
EDSE A671	The Impact of Social Issues on Education	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate Standing. Special Fees. Provides prospective teachers with a broad overview of social issues affecting students in American schools. The course will allow teachers to explore issues related to ethical behavior, their own rights and responsibilities related to the social and cultural backgrounds of their students, and ways to promote physical, mental, and emotional health and well-being.		
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 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 A684	The Gifted Student	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate Standing. Special Fees. Special Note: Alternate year offering. Social, emotional, and educational problems of gifted students. Focuses on divergent and convergent modes of thinking; understanding of cognitive abilities; and characteristics and methods of working with the gifted student.		
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 A689	Special Populations of Gifted Students	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate Standing. Special Fees. Topics will build upon the fundamental concepts addressed in EDSE 684 by focusing on the underserved gifted population including gifted minority students, females, students with disabilities, underachievers, and those in rural communities. The highly gifted and those who possess unusual creativity and talents will also be discussed.		
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 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.		

ELECTRICAL ENGINEERING - EE

*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 A270]. 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 alpha-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 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 A351	Signals and Systems	3 CR
Contact Hours: 3 + 0 Prerequisites: EE A204 and MATH A302. Develops mathematical tools used for describing and analyzing continuous and discrete signals found in electronic and computer systems, and applications of those tools toward the design and analysis of signaling systems. Includes Fourier analysis, Laplace Transforms, Z- Transforms, Convolution, Correlation, and the design and analysis of filters.		
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 AS 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.

EMERGENCY MEDICAL TECHNOLOGY - EMT

*Offered through the Community and Technical College
 Allied Health Sciences Building (AHS), Room 155, 786-6928
<http://alliedhealth.uaa.alaska.edu/>*

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 CPR training and certification that includes adult, child, and infant CPR and airway obstruction relief maneuvers, including two rescuer CPR and barrier devices. Training and certification as approved by State of Alaska Department of Health and Social Services, Division of Public Health, Section of Community Health, and Emergency Medical Services.
 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. 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
 Registration Restrictions: Must meet all qualifications for EMT I and have 6 months experience. Must have approval of DHSS approved physician.
 Special Note: Students desiring Alaska certification must pass, within six months after completing the education program, the written and practical examination for Emergency Medical Technician II administered by the Department of Health and Social Services (DHSS).

Intermediate EMT course providing EMT Is with added skills of esophageal intubation, specialized tourniquets, and intravenous treatment.

EMT A231 Emergency Medical Technician III 3 CR
 Contact Hours: 2 + 2
 Registration Restrictions: Certified in Alaska as EMT II, have 6 months experience as an EMT II, and sponsored by a DHSS approved physician.
 Special Note: Students desiring Alaska certification must pass, within six months after completing the education program, the written and practical examination for Emergency Medical Technician III administered by the Department of Health and Social Services (DHSS).

Emphasizes knowledge and skills necessary for a state certified EMT III to apply electrodes and monitor cardiac activity, counter-shock life-threatening arrhythmias, and administer specific pharmacological agents.

ENGLISH - ENGL

*Offered through the College of Arts and Sciences
 Professional Studies Building (PSB), Room 212, 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.
 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 A110 Approaches to Academic Study 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: Score on Reading Asset Test of 43 or above.
 Special Fees.

Instruction in academic skills and critical thinking demanded in college work. Includes library and on-line research, time management, academic vocabulary development, note taking, text comprehension, and test taking.

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.
 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 Requirement.
 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 A121 Introduction to Literature 3 CR
 Contact Hours: 3 + 0
 Course Attributes: UAA GER Humanities Requirement.
 Special Note: Offered Fall and Spring Semesters.

Course for non-majors. Introduction to analysis and appreciation of fiction, drama, and poetry. Emphasis on reading and discussion.

ENGL A150 Women Writers 3 CR
 Contact Hours: 3 + 0
 A survey of women authors, with examination of how they portray both women and men in their writings.

ENGL A201 Masterpieces of World Literature I 3 CR
 Contact Hours: 3 + 0
 Prerequisites: ENGL A111.
 Course Attributes: UAA GER Humanities Requirement.
 Special Note: Offered Fall and Spring Semesters.

Introductory course for majors and non-majors. Emphasizes understanding literature, forming critical vocabulary, and developing literary 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.
 Special Note: Offered Fall and Spring Semesters.

Introductory course for majors and non-majors. Emphasizes understanding literature, forming critical vocabulary, and developing literary judgment. Selected masterpieces from the Renaissance to the present.

ENGL A207 American Prizewinners 3 CR
 Contact Hours: 3 + 0
 Interpretation and discussion of selections by American writers who have been honored nationally or internationally.

ENGL A211 Academic Writing About Literature 3 CR
 Contact Hours: 3 + 0
 Prerequisites: ENGL A111 with minimum grade of C.
 Course Attributes: UAA GER Written Communication Requirement.
 Special Fees.
 Special Note: Offered Fall and Spring Semesters.

Instruction in writing based on close analysis of literature. Develops a broad range of expository writing skills. Research paper required.

ENGL A212	Technical Writing	3 CR
Contact Hours: 3 + 0		
Prerequisites: ENGL A111 with minimum grade of C.		
Course Attributes: UAA GER Written Communication Requirement.		
Special Fees.		
Special Note: Offered Fall and Spring Semesters.		
Instruction in composition of technical correspondence, informal and formal reports.		
Develops a broad range of college and career writing skills. Investigative report required.		
ENGL A213	Writing in the Social and Natural Sciences	3 CR
Contact Hours: 3 + 0		
Prerequisites: ENGL A111 with minimum grade of C.		
Course Attributes: UAA GER Written Communication Requirement.		
Special Fees.		
Special Note: Offered Fall and Spring Semesters.		
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. Research paper required.		
ENGL A214	Persuasive Writing	3 CR
Contact Hours: 3 + 0		
Prerequisites: ENGL A111 with minimum grade of C.		
Course Attributes: UAA GER Written Communication Requirement.		
Special Note: Offered Fall and Spring Semesters.		
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.		
Course Attributes: UAA GER Humanities Requirement.		
Special Note: ENGL A201 and ENGL A202 strongly recommended. Offered Fall Semesters.		
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.		
Registration Restrictions: ENGL A201 and ENGL A202 strongly recommended.		
Course Attributes: UAA GER Humanities Requirement.		
Special Note: Offered Spring Semesters.		
Study of significant writers of Britain from the Restoration to the present.		
ENGL A305	Topics in National 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.		
Registration Restrictions: ENGL A201 and A202 strongly recommended.		
Course Attributes: UAA GER Humanities Requirement.		
Special Fees.		
Special Note: Applies once toward national literatures requirement for English majors. May be repeated once for elective credit with a change of subtitle. Offered Alternate Fall Semesters.		
Literature of a region or nation (other than Britain or the United States) in which publication is largely in the English language. Examples include literature of Canada, Ireland, Australia, New Zealand, Nigeria, or the Caribbean.		
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.		
Course Attributes: UAA GER Humanities Requirement.		
Special Note: Offered Fall Semesters.		
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.		
Course Attributes: UAA GER Humanities Requirement.		
Special Note: Offered Spring Semesters.		
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 Requirement.		
Special Fees.		
Special Note: Offered Spring Semesters.		
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 Requirement.		
Special Fees.		
Special Note: Offered Fall and Spring Semesters.		
Instruction in principles of textual and visual design in order to understand, analyze, evaluate, and design effective technical communication. Practice in standard editing for both print and online documents.		
ENGL A313	Professional Writing and Editing	1-3 CR
Contact Hours: 1-3 + 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: Offered Spring Semesters.		
Instruction in analyzing the conventions of writing in varied professional fields. Concentration in editing, writing, and revising. Designed for professionals in the workplace, as well as students.		
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.		
Special Note: Offered Alternate Spring Semesters.		
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.		
Special Note: Offered Spring Semesters.		
A study of the Romantic movements from late eighteenth to mid-19th 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. Special Note: Offered Spring Semesters. A study of significant works from the early to mid twentieth century, including selections from U.S. and international literature.		
ENGL A343	Contemporary Literature	3 CR
Contact Hours: 3 + 0 Prerequisites: ENGL A201 and ENGL A202. Special Note: Offered Fall Semesters. A study of significant works from the last third of the twentieth century to the present, including selections from U.S. and international literatures.		
ENGL A351	Poetry	3 CR
Contact Hours: 3 + 0 Prerequisites: ENGL A201 and ENGL A202. Special Note: Offered Fall and Spring Semesters. An intensive study of the forms and techniques used by poets.		
ENGL A361	The Novel	3 CR
Contact Hours: 3 + 0 Prerequisites: ENGL A201 and ENGL A202. Special Note: Offered Alternate Spring Semesters. The development of the novel with primary emphasis on major novelists such as Fielding, Richardson, Smollett, Sterne, Dickens, Zola, Dostoevski, Tolstoy, Joyce, James, Faulkner, and Sartre.		
ENGL A363	The Short Story	3 CR
Contact Hours: 3 + 0 Prerequisites: ENGL A201 and ENGL A202. Special Note: Offered Spring Semesters. 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	Prose Nonfiction	3 CR
Contact Hours: 3 + 0 Prerequisites: ENGL A201 and ENGL A202. Special Note: Offered Alternate Fall Semesters. A study of the chief forms of prose nonfiction such as formal and informal essay, biography, letter, journal, and review.		
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 concurrent enrollment) or (ENGL A212 or concurrent enrollment) or (ENGL A213 or concurrent enrollment). Course Attributes: UAA GER Humanities Requirement. Special Fees. Special Note: Offered Fall Semesters. 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 genre 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. Registration Restrictions: ENGL A201 and A202 strongly recommended. Special Fees. Special Note: Applies once toward the specialized studies requirement for English literature majors; may be repeated once with a change of subtitle for elective credit. Will be offered as a women's topic every other year. Offered Spring Semesters. Study of autobiography and the techniques used and issues raised in this form, with readings focused on a selected theme. Practice writing autobiography.		

ENGL A404	Topics in Women's 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. Special Note: Offered Fall Semesters. Study of particular topics in literature by women writers.		
ENGL A414	Research 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 A311 with minimum grade of C or ENGL A312 with minimum grade of C. Course Attributes: UAA GER Written Communication Requirement. Special Fees. Special Note: Offered Fall Semesters. Technical, specialized exposition, documentation, and research. Concentration on language, style, and audience in scholarly articles. Papers in student's discipline prepared for presentation.		
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 A111 and [ENGL A211 or ENGL A212 or ENGL A213]. Special Note: Offered Spring Semesters. A study of conceptions of rhetoric from ancient Greece and Rome to the present. Emphasis on analysis of works by major rhetorical figures throughout history. Research paper required.		
ENGL A435	History of Criticism	3 CR
Contact Hours: 3 + 0 Prerequisites: ENGL A201 and ENGL A202. Special Note: Offered Fall and Spring Semesters. Critical theory from its classical origins to the present.		
ENGL A440	Topics in 20th Century Comparative Literature	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 Alternate Spring Semesters. Comparative analysis of works from international or other special literatures, such as ethnic American literatures. Selections from literature and contextual 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 towards 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: LING A201 and (ENGL A211 or ENGL A212 or ENGL A213 or ENGL A214).

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

Registration Restrictions: LING A101 is recommended but not required.

Special Note: Offered Fall Semesters.

Origins and development of the English language from prehistoric times to the present.

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 Rhetoric 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 1-3 CR

Contact Hours: 0 + 3-9

Prerequisites: ENGL A211 with minimum grade of B or ENGL A212 with minimum grade of B or ENGL A213 with minimum grade of B.

Registration Restrictions: Faculty permission required.

Special Note: Offered Fall and Spring Semesters.

Advanced application of writing skills in a professional work setting.

ENGL A499 English Honors Thesis 3 CR

Contact Hours: 3 + 0

Prerequisites: ENGL A492 with minimum grade of B.

Special Note: May not be repeated for credit.

ENGL A601 Introduction to Graduate Studies in English 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Special Fees.

Special Note: Must be completed before the student advances to candidacy for the MA. Offered Fall Semesters.

Advanced study and practice of the skills required for graduate studies in English. Involves sophisticated bibliographical research and textual editing, as well as an analysis of the nature and scope of the discipline itself and the languages peculiar to it.

ENGL A602 Contemporary Critical Theory 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate 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 A604 Studies in Women's Literature 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Special Note: May be repeated once for degree credit with change of subtitle. Offered Alternate Spring Semesters.

Advanced study of particular topics in literature by women writers.

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 Spring 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. Offered Alternate Fall Semesters.

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 early to mid twentieth century, 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 last third of the twentieth century to the present, 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. Special Note: Offered Alternate Spring Semesters. 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.		
ENGL 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.		
ENGL A687	Composition Theory and Practice	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate Standing. Special Note: Offered Fall Semesters. Study of theories and methods of teaching composition. Includes introduction to concepts underlying different approaches to composition, applications to practical pedagogy, and contemporary rhetorical issues.		

ENGL A698	Individual Research	1-6 CR
Contact Hours: 1-6 + 0 Registration Restrictions: Faculty Permission. Special Fees.		
ENGL A699	Thesis	1-6 CR
Contact Hours: 1-6 + 0 Registration Restrictions: Faculty Permission. Special Fees. Special Note: Offered Fall and Spring Semesters.		

ENVIRONMENTAL STUDIES - ENVI

envistudies@uaa.alaska.edu

Offered through the College of Arts and Sciences

Institute of Social and Economic Research, Diplomacy Building (DPL), Room 504, 786-1753

<http://envi.uaa.alaska.edu/>

ENVI A201	Living on Earth: Introduction to Environmental Studies	3 CR
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Contact Hours: 3 + 0
Prerequisites: ENGL A111 and MATH A105.
Registration Restrictions: High-school biology or equivalent required.
Course Attributes: UAA GER Social Sciences Requirement.

Introduction to complex environmental issues, emphasizing human impacts, behavior, and institutions. Covers population, food, energy, air, and water resources, climate change, chemicals, forests and biodiversity, indigenous cultures, land use, current law, and human-nature relationships. Focuses on policy and politics, historical and cross-cultural perspectives, individual incentives, economic tradeoffs, and questions of fairness.

ENVI A202	Earth as an Ecosystem: Introduction to Environmental Science	3 CR
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Contact Hours: 3 + 0
Prerequisites: ENGL A111 and MATH A105.
Registration Restrictions: High-school biology or equivalent required.
Course Attributes: UAA GER Natural Sciences Requirement.
Special Note: Completion of GER Natural Sciences Lab requirement highly recommended.

Introduces science as a powerful but limited tool for understanding and solving environmental problems. The Earth as a system of systems. Weather and climate, natural cycles, energy flows, basic ecology, food, wildlife and biodiversity, chemicals, air and water quality, oceans, solid waste, cities, and land use. Uses Alaskan examples.

ENVI A210	Environmental Economics and Policy	3 CR
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Contact Hours: 3 + 0
Prerequisites: MATH A105.
Registration Restrictions: If prerequisite is not satisfied, instructor permission is required.
Crosslisted with: ECON A210.

Survey of environmental policy, emphasizing market-oriented approaches to problems. Present value, cost-benefit analysis, and nonmarket valuation tools are developed and applied to Alaskan and global environmental and natural resource issues.

ENVI A303	Environmental Ethics	3 CR
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Contact Hours: 3 + 0
Crosslisted with: PHIL 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.

ENVI A492	Proseminar in Environmental Studies	3 CR
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Contact Hours: 3 + 0
Registration Restrictions: Open to students pursuing the Minor in Environmental Studies who have completed ENVI A201-A202 and will have completed all other requirements for the Minor by the end of the current semester.
Environmental problem-solving as a professional endeavor. Seminars with UAA researchers, business specialists, engineers, lawyers, regulators, consultants, and non-governmental organizations. Group and individual projects require the constructive application of knowledge and values to problems and effective communication to intended audiences. Capstone course for students pursuing the ENVI minor.

ENVIRONMENTAL QUALITY ENGINEERING - EQE

*Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900
www.engr.uaa.alaska.edu*

EQE A600 Fundamentals of Environmental Science and Engineering 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing or instructor's permission.

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.

EQE A601 Aquatic Process Chemistry 3 CR

Contact Hours: 3 + 0

Registration Restrictions: EQE/EQS student status.

Special Fees.

An introduction to fundamental aquatic chemistry concepts frequently encountered in environmental science and engineering. An equilibrium approach with an emphasis on treatment process 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.

EQE A602 Water Quality Management 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Faculty permission.

Special Fees.

Concepts, rationale, theory, institutions and engineering aspects of water quality management. Methods of water quality management; low flow augmentation; in-stream aeration; stream and estuarine analysis; ocean disposal systems; diffuser analysis and design; control of thermal effluents, industrial discharges and Arctic applications.

EQE A603 Solid Waste Management 3 CR

Contact Hours: 3 + 0

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.

EQE A605 Chemical and Physical Water and Wastewater Treatment Processes 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Faculty permission and graduate standing.

Special Note: Offered Fall Semesters.

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.

EQE A606 Biological Treatment Processes 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Faculty permission and graduate standing.

Special Fees.

Special Note: Offered Spring Semesters.

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.

EQE A608 Fundamentals of Air Pollution 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Faculty permission and graduate standing.

Special Fees.

Basic air pollution terms and their definitions. Sources and effects of air pollution. Meteorology and its relationship to air pollution. Pollution modeling and prediction. Combustion generated air pollution. Energy and air pollution. Regulations at the federal, state, and local levels. Indoor air quality.

EQE A612 Restoration of Aquatic Systems 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Faculty permission.

Special Fees.

Review of theory and application of remediation techniques for aquatic systems. Methods and techniques for remediation of lakes, rivers, and wetlands utilized by environmental engineers and scientists. Response of aquatic systems to remediation efforts following contamination by conventional pollutants, hazardous wastes, and other contaminants. Examination of criteria to determine end-point of recovery.

EQE A613 Remediation 3 CR

Contact Hours: 3 + 0

Registration Restrictions: EQE/EQS student status.

Special Fees.

Introduction to the fundamentals and applications of technologies for remediating contaminated sites. Site characterization techniques and fundamental microbial, chemical, and physical concepts will be presented to provide a basis for the design and operation of specific on-site and in-situ technologies.

EQE A684 EQE Project 3 CR

Contact Hours: 3 + 0

Arranged between the advisor and the student. Generally the student has been admitted to candidacy for the master's degree and a project committee is formed. The student must take an oral exam defending the project.

EQE A698 Individual Research 1-6 CR

Contact Hours: 1-6 + 0

Registration Restrictions: Faculty permission.

A course to be designed between the student and faculty member to allow the students the chance to pursue special advanced interests in engineering at the MS level.

EQE A699 EQE Thesis 1-6 CR

Contact Hours: 1-6 + 0

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.

ENGINEERING SCIENCE - ES

*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.

Special Note: Offered Fall and Spring Semesters.

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 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.

Special Note: Offered Fall and Spring Semesters.

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.

Special Note: Offered Fall and Spring Semesters.

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: 4 + 0

Prerequisites: MATH A201 and PHYS A211.

Engineering-oriented coverage of Statics and Dynamics. Vector Methods used where appropriate.

ES A209 Engineering Statics 3 CR

Contact Hours: 3 + 0

Prerequisites: [ES A111 or PHYS A211] and MATH A201.

Special Note: Offered Fall and Spring Semesters.

Vector quantities, equilibrium including friction forces, structural mechanics, center of gravity, and moments of inertia are considered.

ES A210 Engineering Dynamics 3 CR

Contact Hours: 3 + 0

Prerequisites: ES A209.

Special Note: Offered Fall and Spring Semesters.

Kinematics and kinetics of particles and rigid bodies are studied. Newton's law of motion, momentum and work and energy concepts are studied.

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).		
Special Note: Offered Fall Semesters.		
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 and (MATH A302 or concurrent enrollment).		
Special Note: Offered Spring Semesters.		
Fundamental concepts of elastic stress and strain relations, cylinders and spheres, torsion, beam theory (including shear and bending stresses), column stability, deflections, and two-dimensional elastic theory.		
ES A341	Fluid Mechanics	4 CR
Contact Hours: 3 + 3		
Prerequisites: ES A210 and MATH A201.		
Corequisite: ES A341L.		
Special Fees.		
Special Note: Offered Fall Semesters.		
Statics and dynamics of fluids. Basic equations of hydrodynamics, dimensional analysis, and simple hydraulic machinery.		
ES A346	Basic Thermodynamics	3 CR
Contact Hours: 3 + 0		
Prerequisites: MATH A201 and PHYS A211.		
Special Note: Offered Spring Semesters.		
Systems, properties, processes, and cycles. Fundamental principles of thermodynamics (first and second laws), and elementary applications.		

ENGLISH-AS-A-SECOND LANGUAGE - ESL

*Offered through the Community and Technical College
Beatrice McDonald Hall (BMH), Room 121, 786-6856
<http://cpds.uaa.alaska.edu/>*

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/TSE 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.		
Stacked with: ESL A110.		
Special Fees.		
Presents 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/TSE, 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.		
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.		

ENGINEERING & SCIENCE MANAGEMENT - ESM

*Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900
www.engr.uaa.alaska.edu*

ESM A401	Cost Estimating	3 CR
Contact Hours: 3 + 0		
Prerequisites: ESM A450.		
Stacked with: ESM A610.		
Special Fees.		
Special Note: Offered Alternate Spring Semesters.		
Principles, practices and procedures used in the preparation of engineering cost estimates. Exposition of the basic concepts and steps required to develop engineering type, labor and material based, and parametric cost estimates. Preparation of cost proposals and study of bidding procedures.		

ESM A450	Economic Analysis and Operations	3 CR
Contact Hours: 3 + 0		
Special Fees.		
Special Note: Not offered for credit toward the master of science in engineering management or science management. Offered Spring Semesters.		
Fundamentals of engineering economy, project scheduling, estimating, legal principles, professional ethics, and human relations.		

ESM A601	Engineers in Organizations	3 CR
Contact Hours: 3 + 0 Registration Restrictions: BS degree in Engineering or in a physical science. Special Fees.		
Development of organizations and techniques appropriate to managing engineering and scientific effort. Included will be a study of engineering and scientific activity and personnel in order to organize, motivate, evaluate, develop, and coordinate for maximum effectiveness, with due consideration to the goals of individuals.		
ESM A605	Engineering Economy	3 CR
Contact Hours: 3 + 0 Special Fees.		
The science of fiscal decision making. Graduate level studies in problems of replacement, economic selections, income tax accounting, engineering evaluation and introduction to the problems of depreciation.		
ESM A606	Advanced Engineering Economy	3 CR
Contact Hours: 3 + 0 Prerequisites: ESM A605. Special Fees.		
Case studies and research problems in engineering economy. Examples in the following areas will be included: present worth, internal rate of return, public projects, mutually exclusive alternatives, capital budgeting, income taxes, inflation and geometric gradients, uncertainty, replacement and retirement, and sources of funds.		
ESM A608	Legal Environment for Engineering Management	3 CR
Contact Hours: 3 + 0 Devoted to those aspects of law specifically related to technical management: contracts, sales, real property, business organization, labor, patents, and insurance.		
ESM A609	Project Management	3 CR
Contact Hours: 3 + 0 Special Fees.		
Organizing, planning, scheduling, and controlling projects. Use of CPM and PERT; computer applications. Case studies of project management problems and solutions.		
ESM A610	Cost Estimating	3 CR
Contact Hours: 3 + 0 Registration Restrictions: BS degree in Engineering or in a physical science or faculty permission. Stacked with: ESM A401. Special Fees.		
Principles, practices and procedures used in the preparation of engineering cost estimates. Exposition of the basic concepts and steps required to develop engineering type, labor and material based, and parametric cost estimates. Preparation of cost proposals and study of bidding procedures. Students will manage the student project teams, prepare a research paper, and make a class presentation.		
ESM A613	Management of Technical People	3 CR
Contact Hours: 3 + 0 Registration Restrictions: BS degree in Engineering or in a physical science.		
Human factors with which engineers and scientists will be involved in the work place. Includes labor and union concerns, human relations as a major factor in supervision, and other problems of the engineer or scientist in working with people.		
ESM A617	Technology Management	3 CR
Contact Hours: 3 + 0 Registration Restrictions: 9 credits in management and fiscal areas of ESM programs, or 9 credits beyond foundation courses in MBA program. Crosslisted with: BA A617.		
Issues and case studies of policy development, strategy, planning and management of technology in the overall corporate environment.		
ESM A619	Computer Simulation of Systems	3 CR
Contact Hours: 3 + 0 Prerequisites: BA A601 or ESM A620. Crosslisted with: BA A619. Special Fees.		
Intensive study of simulation concepts and methods, introduction to major simulation languages. Survey of simulation applications in various disciplines.		
ESM A620	Statistics for ESM	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Undergraduate Statistics course. Special Fees.		
Development of an overall perspective on the role of statistics within the framework of engineering and management decision making. Includes the use of statistical software.		

ESM A621	Operations Research	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Undergraduate probability and statistics course. Special Fees.		
Mathematical techniques for aiding managerial decision making. Topics will include waiting line theory, inventory models, linear programming, transportation problems, dynamic programming, PERT/CPM, Markov chains, and simulation. The emphasis is on the application of techniques to engineering management situations.		
ESM A622	Management Decision Under Uncertainty	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Background in probability theory and proficiency in use of computer for spreadsheet analysis.		
Decision theory, risk and uncertainty, value of information, preference measurements, prioritization of alternatives, multiple objectives and hierarchical decisions. Case studies are incorporated into lectures.		
ESM A623	Total Quality Management	3 CR
Contact Hours: 3 + 0 Prerequisites: BA A601 or ESM A620 and [BA A632 or ESM A601]. Crosslisted with: BA A623. Special Fees.		
Brief history of the origins of modern quality management; review of basic tools for continuous quality improvement involving everyone in the organization. The organizational climate for continuous improvement. Survey of statistical tools for continuous quality improvement.		
ESM A625	Marketing of Business Products and Services	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate standing in the MBA or ESM programs. Crosslisted with: BA A625.		
Marketing of business products and business advisory services to organizational customers including government and institutions. Business marketing environment, strategic planning, segmentation, organizational buying behavior, product planning and innovation, pricing, promotion, and physical distribution. Relationship marketing, service quality, customer satisfaction and value creation, and negotiation. Issues in business ethics, global context, and professional services. Cases in business marketing.		
ESM A684	ESM Project	3 CR
Contact Hours: 3 + 0 Individual study of an actual engineering or science management problem, resulting in a report which includes recommendations for action.		
ESM A698	Individual Research	1-6 CR
Contact Hours: 1-6 + 0 Registration Restrictions: Faculty permission.		
A course to be designed between the student and faculty member to allow students the chance to pursue special advanced interests in Engineering/Science Management at the MS level.		
ESM A699	ESM Thesis	1-9 CR
Contact Hours: 1-9 + 0		

ELECTRONICS TECHNOLOGY - ET

*Offered through the Community & Technical College
University Center (UC) 130, 786-6423
<http://et.uaa.alaska.edu/>*

AYATD@UAA.ALASKA.EDU

ET A101	Basic Electronics: DC Physics	4 CR
Contact Hours: 3 + 3 Prerequisites: MATH A055.		
Offered only at Kenai Peninsula College.		

Course assumes no previous knowledge of electronics and prepares the student for further study. Subjects included are basic physics of electricity, direct current and practices, magnetism, and use of test equipment. Two hours lab per week.

ET A102	Basic Electronics: AC Physics	4 CR
Contact Hours: 3 + 3 Prerequisites: ET A101.		
Offered only at Kenai Peninsula College.		

Principles of alternating current, vectors, phase relationships, inductive and capacitive reactance and impedance. AC circuit analysis, series and parallel resonant circuits, transformers, and network analysis. Two hours lab per week.

ET A111	Electronics Laboratory II	4 CR
Contact Hours: 2 + 0 Corequisite: ET A125. Offered only at Matanuska-Susitna College. Two semester hour laboratory class covering experiments and projects for AC Physics. This class will provide the student with the physical skills necessary for the study of alternating-current physics. Lab experiments in frequency measurement, AC voltage measurement, voltage-current phase angle, time constant, and resonant circuit will be covered.		
ET A122	Introduction to Electronic Devices	3 CR
Contact Hours: 3 + 0 Prerequisites: ET A125. Offered only at Matanuska-Susitna College. A study of vacuum tube and solid state devices. Physics, construction, characteristics, parameters, application, and limitations are covered.		
ET A123	Electronic Circuit Fundamentals	3 CR
Contact Hours: 3 + 0 Prerequisites: ET A122. Offered only at Matanuska-Susitna College. An analysis of basic electronic circuits. Power supplies, amplifiers, and oscillators. Operational and failure analysis of basic circuits, with troubleshooting procedures for each type.		
ET A126	Principles of Logic and Gating	4 CR
Contact Hours: 3 + 2 Registration Restrictions: High school math and reading skills. Special Fees. Introduces concepts of digital logic circuitry including, but not limited to, number systems, logic gates, switches, displays, counters, registers, decoders, mux and demux circuits, and converters.		
ET A127	Microprocessor Fundamentals	3 CR
Contact Hours: 3 + 0 Prerequisites: ET A126. Offered only at Matanuska-Susitna College. Microprocessor theory and operation; topics covered include basic microprocessor architecture, how to program a microprocessor, how to interface a microprocessor to other equipment, and troubleshooting microprocessor circuits and systems.		
ET A151	Basic Electricity	4 CR
Contact Hours: 3 + 3 Prerequisites: MATH A055. Offered only at Kenai Peninsula College. A first course in electricity for the non-electronics major. Covers basic DC and AC theory including series, parallel, and series-parallel circuits, reactance, impedance and selected circuit analysis techniques. This lab will emphasize practical measurement with meters and oscilloscopes.		
ET A160	D.C. Electrical Systems	3 CR
Contact Hours: 3 + 0 Corequisite: ET A161. Covers basic D.C electrical concepts, definitions, laws, and applications. Introduces passive electrical components, schematic symbols, wiring diagrams, power sources, and distribution systems.		
ET A161	D.C. Lab	1 CR
Contact Hours: 0 + 3 Corequisite: ET A160. Special Fees. Presents methods of safe and accurate measurement of D.C. 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	A.C. 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, definitions and laws governing alternating current signal and power sources. Includes A.C. waveforms, sources, components, wiring diagrams, schematic symbols, and analysis of A.C. power distribution.		

ET A163	A.C. Lab	1 CR
Contact Hours: 0 + 3 Prerequisites: ET A160 and ET A161. Corequisite: ET A162. Special Fees. Presents measurement of A.C. electrical quantities using basic electrical test equipment. Covers A.C. 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, multinomial 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. Provides the student with a survey of the field of microcomputers from a technical viewpoint. Coverage includes terminology, number systems, basic microcomputer architecture, assembly language programming, and MS/DOS operating system.		
ET A180	Semiconductor 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	Advanced Digital Devices	2 CR
Contact Hours: 1.5 + 2 Prerequisites: ET A165. Special Fees. Presents advanced digital concepts, logic families, and applications. Provides methods for analyzing and troubleshooting complex digital circuitry. Topics include standard logic interfacing, logic family interfacing, circuit design fundamentals, multivibrators, timers, analog and digital converters, memory devices, and programmable logic devices.		
ET A182	Applied ICs	2 CR
Contact Hours: 1.5 + 2 Prerequisites: ET A164. 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, power and 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 + 2 Prerequisites: ET A162 and ET A163 and ET A183. Examines the elements of telecommunications, including history, transmission methodology, multiplexing, media, and design criteria. Discusses 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 SSB signals. Emphasizes antennas, transmission lines, signal propagation, transmitter and receiver circuitry, alignment, and troubleshooting.		
ET A190	Selected Topics in Electronics Technology	1-4 CR
Contact Hours: 1-4 + 0-12 Special Note: Prerequisite may be imposed depending on topic. May be repeated for credit with a change in subtitle. 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 A200	Residential Wiring	3 CR
Contact Hours: 2 + 2		
Designed for those who want to wire their own homes or just understand more about electrical wiring. AC and DC theory, practical wiring including feeder and branch circuits, low-voltage wiring and alarm systems.		
ET A205	Transmitter Circuitry	3 CR
Contact Hours: 2 + 2		
Offered only at Matanuska-Susitna College.		
Methods and techniques used in the transmission of intelligence by AM, FM, and SSB radio propagation. The study of circuitry and antennas designed to modulate and transmit AM, FM, and SSB transmitters. Alignment and troubleshooting of AM, FM, and SSB transmitters.		
ET A209	Receiver Circuitry	3 CR
Contact Hours: 3 + 1		
Prerequisites: ET A205.		
Offered only at Matanuska-Susitna College.		
Methods and techniques used in the reception, demodulation, detection, and reproduction of radio intelligence transmitted by AM, FM, and SSB. Block diagram and schematic interpretation of AM, FM, and SSB receivers. Alignment and troubleshooting procedures used in AM, FM, and SSB receivers.		
ET A216	Personal Computer Servicing	3 CR
Contact Hours: 1 + 4		
Prerequisites: ET A126 and ET A127.		
Teaches how to service, maintain, upgrade and optimize personal computers, from general circuitry theory to preventive maintenance to module/board level troubleshooting to repair and system configuration.		
ET A217	Personal Computer Troubleshooting	3 CR
Contact Hours: 1 + 4		
Prerequisites: ET A126 and ET A127 and ET A216.		
Teaches computer troubleshooting to the component level using factory test equipment and technical service manuals.		
ET A218	Personal Computer Networking	3 CR
Contact Hours: 1 + 4		
Prerequisites: ET A126 and ET A127 and ET A216 and ET A217.		
Teaches how to specify, install and maintain local area networks, basics and protocols of data communication and communication architectures, LAN cabling, Network Operating Systems, and internet working. Also managing and troubleshooting networks and internetworks.		
ET A225	Principles of Microwave Electronics	3 CR
Contact Hours: 3 + 1		
Offered only at Matanuska-Susitna College.		
Course in microwave electronics for the technician. Theory of wave propagation, microwave oscillators, and basic transmitting and receiving systems for radar and telecommunications.		
ET A226	Industrial Electronics	3 CR
Contact Hours: 3 + 0		
Prerequisites: ET A225.		
Offered only at Matanuska-Susitna College.		
Introduction to the use of industrial electronics circuits and equipment. Theory of operation, magnetic amplifiers, motor speed controls, voltage and current control in DC and AC generators, synchro and servo systems, and large current polyphase rectifiers.		
ET A232	Applied ICS	4 CR
Contact Hours: 3 + 2		
Prerequisites: ET A124 and ET A125 and ET A126 and ET A128.		
Special Fees.		
3-hours lecture and 2-hours lab per week. Study of ideal operation amplifier circuits. Covers amplification, generation of sinusoidal and special application waveforms, active filters, power supply regulation, and circuit timers. Lab projects using appropriate equipment.		
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 A242A	Computer Peripheral Devices: Theory and Maintenance	2 CR
Contact Hours: 1 + 2		
Prerequisites: (ET A240 or concurrent enrollment) and (ET A242B or concurrent enrollment).		
Instruction and maintenance of computer peripheral devices and sub systems including printers, stepper motors, switching power supplies, and microcontrollers. Troubleshooting and repair techniques will be stressed.		
ET A242B	Computer Peripheral Devices: Network Technology	2 CR
Contact Hours: 1 + 2		
Prerequisites: ET A126.		
Registration Restrictions: Basic knowledge of electricity and previous programming experience.		
Covers both hardware and software as it applies to computer networking. Designed for the technically oriented individual desiring to maintain or increase knowledge of networks. Students will design, construct, and manage a small LAN.		
ET A243	Programmable Logic Controllers	3 CR
Contact Hours: 3 + 0		
Prerequisites: ET A126.		
Offered only at Kenai Peninsula College.		
Introduction of discrete input/output control including ladder diagrams and electromechanical relays. The use of programmable logic controllers to monitor and control discrete devices is the primary focus.		
ET A245	Basic Electronics	4 CR
Contact Hours: 3 + 3		
Prerequisites: ET A101 or ET A151.		
Offered only at Kenai Peninsula College.		
Gives the student a broad background in semiconductor devices. Coverage includes diodes, transistors, FETs and operational amplifiers. The lab will emphasize troubleshooting techniques of practical semiconductor circuits.		
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.		
Explains 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	Advanced Communications	3 CR
Contact Hours: 2 + 3		
Prerequisites: ET A184 and ET A185.		
Examines communications technology including microwave, radar, satellite, mobile and cellular telephone, VoIP, 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 A280 Programmable Logic Controllers 3 CR
 Contact Hours: 2 + 3
 Prerequisites: ET A260.
 Special Fees.
 Covers PLC input/output control including ladder diagrams, electromechanical elements, functional blocks, and network addressing used to monitor and control discrete devices and modules.

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 A340 Microcontroller Electronics 4 CR
 Contact Hours: 3 + 2
 Prerequisites: ET A125 or AT A274 or ES A309 or PHYS A110.
 Special Fees.
 Special Note: Equivalent work or computer experience may be substituted for formal prerequisites.

Develops the skills necessary to design, construct, program, and document microcontroller process control projects. Evaluate microcontroller specifications and circuits for selected applications.

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.

FAMILY AND CONSUMER SCIENCES - FCS

*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
 Prerequisites: FCS A121 or FCS A122.
 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.

FLORAL DESIGN - FD

*Offered through the Community & Technical College
 Lucy Cuddy Hall (CUDY), Room 126, 786-4728
<http://ctc.uaa.alaska.edu/>*

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.

FD A163 Floral Design III 3 CR
 Contact Hours: 2 + 2
 Prerequisites: FD A161.
 Special Fees.

Covers basic principles, techniques, and mechanics of wedding floral designs using fresh plant materials. Includes wedding consultation, planning, and servicing the wedding.

FD A164 Floral Design IV 3 CR
 Contact Hours: 2 + 2
 Prerequisites: FD A161.
 Special Fees.

Covers basic principles, techniques, and mechanics of sympathy (funeral) floral designs using fresh plant materials. Includes pricing and selling sympathy arrangements and servicing a funeral.

FD A195A Floral Design Practicum I 1 CR
 Contact Hours: 0 + 3
 Prerequisites: (FD A161 or concurrent enrollment).
 Special Fees.

Application of principles of floral art and design, and flower identification and selection. Includes planning specific arrangements as assigned by the instructor, purchasing supplies needed, and producing completed projects within a specific timeframe and budget.

FD A195B Floral Design Practicum II 2 CR
 Contact Hours: 1 + 3
 Prerequisites: FD A162 and FD A195A and (FD A163 or concurrent enrollment) and (FD A164 or concurrent enrollment).
 Special Fees.

Special Note: Ability to read and speak English may be a requirement of certain practicum sites.

Application of knowledge and skills of floral art and design in various retail settings. Includes teleflora, shop operations, and customer service.

FRENCH - FREN

*Offered through the College of Arts and Sciences
 Administration/Humanities Building (ADM), Suite 287, 786-4030
<http://language.uaa.alaska.edu/>*

FREN A101 Elementary French I 4 CR
 Contact Hours: 4 + 0
 Course Attributes: UAA GER Humanities Requirement.
 Special Fees.

Introduction to the French language. This course presents the alphabet, basic phonetics, and fundamentals of grammar, and goes on to cover the regular and irregular verb conjugation of the present and past tenses. It includes basic vocabulary, cognates and idiomatic expressions. Oral exercises and repetition are emphasized to obtain correct pronunciation.

FREN A102 Elementary French II 4 CR
 Contact Hours: 4 + 0
 Prerequisites: FREN A101.
 Course Attributes: UAA GER Humanities Requirement.
 Special Fees.

Continuing study of grammar and vocabulary. The conjugation of the remaining verbal forms: imperfect, future, conditional and various compound tenses will be studied as well as the imperative and the subjunctive moods. Practice in reading, speaking, and writing on themes of contemporary interest will stress good accent along with style.

FREN A105 French Immersion Retreat I 1 CR
 Contact Hours: 1 + 0
 Prerequisites: FREN A101.
 Registration Restrictions: A basic knowledge of sentence structures in the French language.
 Grade Mode: Pass/No Pass.
 Special Fees.

Special Note: Intensive course conducted entirely in French. May be repeated once for credit.

An educational retreat providing workshops, nature walks, outdoor games, and learning activities at the beginning level of proficiency for a total immersion in the French language, culture, and way of life. For students who want to practice French conversational skills in a most friendly and non-threatening atmosphere.

FREN A201 Intermediate French I 4 CR
 Contact Hours: 4 + 0
 Prerequisites: FREN A102.
 Course Attributes: UAA GER Humanities Requirement.
 Special Fees.

Review of the more complex grammatical structures and expansion of the vocabulary. This course will emphasize the reading of graded literary excerpts by contemporary French authors. Students will attempt to interpret their content while analyzing the structures and the expression. French pronunciation will be enhanced through classroom practice in reading and discussing materials and topics of current interest. 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.

Completion of the grammar review. The four skills: reading, listening, speaking and writing will be intensified in order to achieve normal speech fluency for understanding and being able to engage in an ordinary conversation. The students will also endeavor to write short prose compositions or poetry to perfect their expression. Conducted in French.

FREN A205 French Immersion Retreat II 1 CR

Contact Hours: 1 + 0

Prerequisites: FREN A201.

Registration Restrictions: An extensive vocabulary and a solid knowledge of tenses and sentence structures in French.

Grade Mode: Pass/No Pass.

Stacked with: FREN A305.

Special Fees.

Special Note: Intensive course conducted entirely in French. May be repeated once for credit.

An educational retreat providing workshops, nature walks, outdoor games, and learning activities at the intermediate level of proficiency for a total immersion in the French language, culture, and way of life. For students who want to practice French conversational skills in a most friendly and non-threatening atmosphere.

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 A305 French Immersion Retreat III 1 CR

Contact Hours: .5 + 1

Prerequisites: FREN A301.

Registration Restrictions: Advanced Verbal skills, superior knowledge of tenses and sentence structures in French, and understanding of the culture in French-speaking countries.

Grade Mode: Pass/No Pass.

Stacked with: FREN A205.

Special Fees.

Special Note: Intensive course conducted entirely in French. May be repeated once for credit.

An educational retreat providing workshops, nature walks, outdoor games, and learning activities at the advanced level of proficiency for a total immersion in the French language, culture, and way of life. For students who want to practice French conversational skills in a most friendly and non-threatening atmosphere.

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.

FIRE SERVICE ADMINISTRATION - FSA*Offered through the Community & Technical College**Allied Health Sciences Building (AHS), Room 155, 786-6928**<http://alliedhealth.uaa.alaska.edu/>*

Classes are held at the Fire Department Training Center, 1140 Airport Heights Road, 267-5002.

FSA A101 Introduction to Fire Science 3 CR

Contact Hours: 3 + 0

Special Fees.

Introduction to fire service and fire protection. Fire service history, functions, and career opportunities. Public, quasi-public, and private fire protection services. Fire chemistry and physics, and fire loss analysis.

FSA A105 Fundamentals of Fire Prevention 3 CR

Contact Hours: 3 + 0

Special Fees.

Organization and functions of fire prevention. Inspections, surveying and mapping procedures, recognition of fire and life hazards, engineering and enforcing solutions to fire hazards, and public relations as affected by fire protection.

FSA A107 Fire Tactics and Strategy 3 CR

Contact Hours: 3 + 0

Special Fees.

Principles of fire control through utilization of personnel, equipment, and extinguishing agents of groundfire.

FSA A111 Fire Company Organization and Management 3 CR

Contact Hours: 3 + 0

Special Fees.

Review of fire department organization, planning, and supervision to meet organizational needs. Emphasis on company officer's role.

FSA A115 Fire Apparatus and Equipment 3 CR

Contact Hours: 3 + 0

Special Fees.

Fire apparatus designs, specifications, and performance capabilities. Effective utilization of apparatus in fire service emergencies.

FSA A117 Rescue Practices 3 CR

Contact Hours: 3 + 0

Special Fees.

Rescue problems and techniques, and emergency rescue equipment. Toxic gases and chemicals, radiation hazards, and care of victims. Includes emergency childbirth, respiration and resuscitation, and extrication.

FSA A121 Introduction to Fire Chemistry 3 CR

Contact Hours: 3 + 0

Special Fees.

Introduction to nomenclature, principles, and procedures of fire chemistry, supplemented by basic math and physics as related to fire problems.

FSA A123 Fire Investigation I 3 CR

Contact Hours: 3 + 0

Determining types and causes of fires. Introduction to arson and incendiarism, including recognizing and preserving evidence, interviewing witnesses and suspects, arrest and detention procedures. Court procedures, giving court testimony, and related laws.

FSA A151 Wildland Fire Control I 3 CR

Contact Hours: 3 + 0

Special Fees.

For employed firefighters and fire science majors. Covers fundamental factors affecting wildland fire prevention, fire behavior, and control techniques.

FSA A202 Fire Hydraulics 3 CR

Contact Hours: 3 + 0

Special Fees.

Review of mathematical hydraulic laws as applied to fire science. Application of formulas and calculations to hydraulics and water supply problems.

FSA A204 Hazardous Materials I 3 CR

Contact Hours: 3 + 0

Special Fees.

Introduction to basic fire chemistry and physics. Problems of flammability as encountered by firefighters when dealing with fuels and oxidizers. Elementary firefighting practices for hazardous materials in transit and storage.

FSA A206 Building Construction for Fire Protection 3 CR

Contact Hours: 3 + 0

Special Fees.

Fundamentals of building construction as related to fire protection. Classifications by occupancy and type of construction with emphasis on fire protection facilities, equipment, fire-resistive materials, and high-rise consideration.

FSA A210 Contact Hours: 3 + 0 Special Fees.	Hazardous Materials II	3 CR
Second semester course in hazardous materials. Covers handling, identification, and firefighting practices for explosive, toxic, and radioactive materials in transit and storage.		
FSA A212 Contact Hours: 3 + 0 Special Fees.	Related Codes and Ordinances	3 CR
Background and interpretation of national, state, and local codes, ordinances, and laws which influence fire prevention field.		
FSA A214 Contact Hours: 3 + 0 Special Fees.	Fire Protection Equipment and Systems	3 CR
Study of portable fire extinguishing equipment, protection devices, and systems for special hazards. Sprinkler, fire detection, and alarm systems.		
FSA A216 Contact Hours: 3 + 0 Registration Restrictions: Faculty permission. Grade Mode: Pass/No Pass. Special Fees.	Methods of Instruction for Fire Service	3 CR
This is the State of Alaska "Fire service training methods of instruction" course. Satisfies the state requirements for both basic and advanced MOI. Upon successful completion of this course the student will be eligible to test for state fire service instructor.		
FSA A217 Contact Hours: 3 + 0 Registration Restrictions: Basic background in fire science. Special Fees.	Advanced Rescue Practices	3 CR
Basic information and specific skill training on approach, evaluation, and safe completion of complicated rescues. Includes hands-on activities. Covers rescue equipment, extrication from vehicles, metropolitan rescues, natural disasters, and high places.		

FISHERIES TECHNOLOGY - FT

Offered through Kodiak College
117 Benny Bensen Dr., Kodiak, Alaska, 99615, (907) 486-4161.
www.koc.alaska.edu

FT A103 Contact Hours: 0 + 2 Special Note: Student supplies used outboard motor.	Outboard Maintenance and Repair	1 CR
Preventive maintenance and troubleshooting of basic outboard motors.		
FT A113 Contact Hours: 3 + 0	Coastal Piloting and Navigation	3 CR
Development of navigation techniques and familiarity with local water. Includes chart reading, compass, piloting, aids to navigation, and rules of the road.		

GEOMATICS - GEO

Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900
www.engr.uaa.alaska.edu

GEO A137 Contact Hours: 2 + 2 Registration Restrictions: Computer competency (see admission requirements) or instructor approval. Special Note: Offered Fall Semesters.	Principles of Mapping	3 CR
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.		
GEO A146 Contact Hours: 3 + 0 Prerequisites: MATH A108 with minimum grade of C. Special Note: Offered Spring Semesters. Registration Restrictions: See admission requirements.	Surveying Computations	3 CR
Introduction to Geomatic, subdivision, and boundary computations. Intersection of lines. Methods of adjusting Geomatic data. Design and determination of curvilinear and required areas. Adjustment of retracement surveys. Computations of circular curves. Introduction to the current industry standard hand held calculator.		

GEO A155 Contact Hours: 2 + 3 Prerequisites: MATH A108 with minimum grade of C. Registration Restrictions: See admission requirements. Special Note: Offered Fall Semesters.	Fundamentals of Surveying	3 CR
Introduction to Geomatics and survey measurement techniques, including the use of levels, theodolites, and total stations, and GPS. Methods of recording and reducing field data. Use of hand-held calculators to compute directions, survey errors, closures, adjustments, and area. Geomatics projects and field trips. Review of historical survey techniques and the Public Land Survey System. Introduction to horizontal curves.		
GEO A157 Contact Hours: 2 + 2 Prerequisites: GEO A137. Special Note: Offered Fall Semesters.	Analytical and Digital Cartography	3 CR
Introduction for Geomatics majors and non-majors to the principles of computer aided design and mapping. AutoCAD, Land Development Desktop, and class projects will be used to introduce the basics of digital cartography and provide a knowledge base essential for future Geomatics courses and career preparation.		
GEO A158 Contact Hours: 2 + 2	Geomatics Computer Fundamentals	3 CR
Introduction to IBM compatible PCs - including both hardware and software components - specifically directed to Geomatics applications. Topics covered include PC O/S, word processing, spreadsheets, databases, graphing, image manipulation, text and graphic presentation, data and internet searches, HTML authoring, and resume preparation.		
GEO A166 Contact Hours: 2 + 6 Prerequisites: GEO A155 with minimum grade of C. Registration Restrictions: See admission requirements. Special Note: Offered Spring Semesters. Special Fees.	Advanced Surveying	4 CR
Advanced survey measurement techniques. Use of conventional survey instrumentation, total stations, and data controllers. Acquisition and retrieval of geomatic data from data controllers. Horizontal and vertical traversing and adjustment methods. Astronomical observations. Cadastral and topographic surveying projects.		
GEO A167 Contact Hours: 4 + 0 Registration Restrictions: Computer competency (see admission requirements) or instructor approval. Special Fees. Special Note: Offered Spring Semesters.	Remote Sensing and Image Analysis	4 CR
Introduction to photo interpretation and imaging systems. Geometry of photogrammetry. Theory of electromagnetic spectrum. Application of remote sensing in engineering, archaeology, agriculture, and forestry using image analysis software.		
GEO A248 Contact Hours: 2 + 2 Prerequisites: GEO A157. Special Note: Offered Spring Semesters.	Digital Terrain Cartography	3 CR
An intermediate level digital terrain cartography course for Geomatics majors and non-majors. Autodesk Land Development Desktop and CAD Overlay will be used to introduce Autodesk Civil/Survey Software. Lectures and projects will include digital terrain modeling, alignments, cross-sections, volume computations, and provide a base graphic communications knowledge that is essential for success in future Geomatics courses and in professional employment.		
GEO A250 Contact Hours: 0 + 6 Registration Restrictions: Completion of at least 12 GEO credits. Special Fees. Special Note: Students secure their own employment positions. Evaluation by both employer and UAA faculty.	Survey Employment Practicum	2 CR
Application of surveying theory and techniques while employed for at least five weeks with a professional licensed surveying firm or with a government agency that performs surveying or mapping.		
GEO A256 Contact Hours: 3 + 3 Prerequisites: MATH A200 and GEO A166. Special Note: Offered Fall Semesters.	Municipal and Civil Geomatics	4 CR
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.		

GEO A257 Elements of Photogrammetry 3 CR

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.

Introduction to photogrammetric mapping including history, aerial cameras, optics, geometry of the aerial photograph, stereoscopes, parallax, and flight planning. Basic mathematics of photogrammetry and transformations. Techniques in the use of stereoscopes and photogrammetric plotters.

GEO A267 Boundary Law I 4 CR

Contact Hours: 4 + 0

Prerequisites: GEO A155.

Special Note: Offered Fall Semesters.

Elements of boundary control and legal principles, boundary history, ownership, rights, interests, title, transfer and description of real property, the rectangular system, retracements, restoration of corners, locating sequential conveyances and simultaneously created boundaries, combination descriptions and conveyances, easements, riparian and littoral boundaries including riparian rights, navigability, public water, erosion, accretion, avulsion, reliction, and other water boundary elements.

GEO A290 Selected Topics in Geomatics 1-6 CR

Contact Hours: 0 + 0

Registration Restrictions: Faculty permission.

Theoretical or practical concepts in geomatics. Specific course content is determined by student needs, developments in technology, or licensing requirements.

GEO A355 Land Development and Design 3 CR

Contact Hours: 2 + 2

Prerequisites: GEO A248 with minimum grade of C and GEO A267 with minimum grade of C.

Special Note: Offered Fall Semesters.

Concepts governing land development. Analysis of soil, topography, geometry, environmental impact, aesthetic and economic principles in land planning. Permitting process. Federal, state, and municipality platting regulations. Automated subdivision design and platting. Ethical considerations when developing land.

GEO A358 Programming for Digital Cartography 3 CR

Contact Hours: 2 + 2

Prerequisites: MATH A201 and CS A207.

Special Note: Offered Fall Semesters.

Advanced principles of programming for computer-aided design and mapping. Organization, filing, and data-base principles. Programming routines in various automated mapping languages.

GEO A359 Geodesy and Map Projections 3 CR

Contact Hours: 3 + 0

Prerequisites: MATH A200.

Special Note: Offered Fall Semesters.

Introduction to geometric geodesy. Computations on the ellipsoid. Elements of datums. Map projections and state plane coordinate systems. Coordinate transformations.

GEO A365 Geomatic Adjustment and Analysis 4 CR

Contact Hours: 4 + 0

Prerequisites: MATH A202 and GEO A359.

Special Note: Offered Spring Semesters.

Analysis of errors and adjustments in geomatics measurements. Propagation of errors and variances. Statistical analyses and error ellipses. Geomatic accuracies and standards. Methods of least squares adjustment.

GEO A433 Hydrographic Surveying 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Upper class undergraduate or graduate standing in either Geomatics or Civil Engineering, or instructor's permission.

Special Note: Offered Fall Semesters.

Provides students with knowledge of and skills to apply physical principles, instrumentation, data analysis methods, and visualization products associated with hydrographic surveying, chart publication, and related marine measurement practices of government and industry.

GEO A456 Geomatics and Civil Design 3 CR

Contact Hours: 2 + 3

Prerequisites: MATH A200 with minimum grade of C and GEO A166 with minimum grade of C.

Special Note: Offered Fall Semesters.

Methods of gathering survey data for civil design. Geodesy overview. Global positioning systems (GPS) for positioning and direction. Elements of highway design and location, including horizontal, spiral, and vertical curves, super elevation, and earthwork. Geomatic design and location of utility systems. Geodetic and state plane coordinate systems. Elements of geographic information systems.

GEO A457 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.

GEO A459 Geodetic Geomatics 3 CR

Contact Hours: 3 + 0

Prerequisites: MATH A202 and GEO A359.

Special Fees.

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. Protracted townships.

GEO A460 Geomatics Design Project 3 CR

Contact Hours: 2 + 2

Registration Restrictions: For those seeking a BS in Geomatics, senior standing in geomatics program with all 300-level courses completed or instructor approval. For those seeking a certificate in GIS, all core courses must be completed or instructor approval.

Special Note: Offered Fall Semesters.

Projects in geomatics. Research, design, data compilation, analyses, and mapping. Professional standards and ethical concerns for geomaticians and/or GIS professionals.

GEO 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.

GEO A467 Analytical and Digital Photogrammetry 3 CR

Contact Hours: 2 + 2

Prerequisites: GEO A257.

Special Fees.

Special Note: Offered Alternate Spring Semesters.

Theory of analytical photogrammetry including mathematical development of the rotation matrix, interior, relative, and absolute orientation. Programming of photogrammetric adjustments. Theory of strip and block adjustments. Independent projects in photogrammetric mapping.

GEO A490 Selected Advanced Topics in Geomatics 1-6 CR

Contact Hours: 0-6 + 0-12

Registration Restrictions: Faculty permission.

Special Fees.

Advanced theoretical or practical concepts in geomatics. Specific course content is determined by student needs, developments in technology, or licensing requirements.

GEOGRAPHY - GEOG

*Offered through the College of Arts and Sciences**Social Sciences Building (SSB), Room 330, 786-1535**<http://history.uaa.alaska.edu/>***GEOG A101 Introduction to Geography 3 CR**

Contact Hours: 3 + 0

Course Attributes: UAA GER Social Sciences Requirement.

Introduction to the discipline of geography. Topical and regional approaches illustrate the significance of geography in understanding the various natural, social, and cultural forces which shape our world.

GEOG A103 World Economic Geography 3 CR

Contact Hours: 3 + 0

Special Fees.

Study of world economic activities. Physical and cultural bases, spatial growth and distribution patterns, and their significance in inter-regional and international development.

GEOG A200 Alaskan Geography 3 CR

Contact Hours: 3 + 0

Introductory geographical survey of Alaska. Emphasis will be on the high latitude Alaskan lands and their potential for future development.

GEOG A205 Elements of Physical Geography 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: GEOG A101 or A103 recommended, but not required.
 Course Attributes: UAA GER Natural Sciences Requirement.
 Analysis of the processes that form the physical environment and the resulting physical patterns. Study of landforms, climate, soils, water resources, vegetation, and their world and regional patterns. Optional laboratory of one additional credit.

GEOG A205L Elements of Physical Geography Laboratory 1 CR
 Contact Hours: 0 + 3
 Course Attributes: UAA GER Natural Sciences w/Lab.
 Special Fees.
 Optional laboratory of one additional credit.

GEOG A341 Political Geography 3 CR
 Contact Hours: 3 + 0
 Prerequisites: GEOG A101 or PS A102.
 Spatial arrangement and problems of nation-states. Territorial conflict within and between states. Electoral geography, districts, and gerrymandering with an emphasis on U.S. politics. The development and social effects of territorial institutions.

GEOG A342 Economic Geography and the Global Economy 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: GEOG A101 or A103, and ECON A101 (or higher) recommended but not required.

Basic tools of economic analysis in a spatial/geographical setting. Focuses on corporate change and the relationship between corporate strategy and the geographic structure of corporations. Examines recent changes in the spatial organization of industry and related issues. Special attention given to new industrial systems, e.g. JUST-in-time productions, national regional development policies, international trade agreements and the global division of labor.

GEOG A345 Across This Land: The Historical Geography of North America 3 CR
 Contact Hours: 3 + 0
 Prerequisites: HIST A131
 Crosslisted with: HIST/INTL 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.

GEOG A415 Anglo-Saxons and Vikings: History and Geography in the Early Medieval North Atlantic 3 CR
 Contact Hours: 3 + 0
 Prerequisites: HIST A101
 Crosslisted with: HIST 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 and political arrangement and the effects of climate and environmental modification on population growth and migration.

GEOLOGY - GEOL

*Offered through the College of Arts and Sciences
 Beatrice McDonald Hall (BMH), Room 214, 786-6840
<http://geology.uaa.alaska.edu/>*

GEOL A103 Landscapes and Resources of Alaska 3 CR
 Contact Hours: 3 + 0
 Geologic origins of mountains and glaciers which make up Alaska's scenery. Designed for people who would like to know more about Alaska, including where and how some of its natural resources (gold, copper, coal, oil, etc.) occur.

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
 Prerequisites: MATH A055.
 Course Attributes: UAA GER Natural Sciences.
 Special Fees.
 Special Note: Offered Fall and Spring Semesters.

Introduction to physical geology. Study of earth, its materials, and processes affecting changes on and within it. Laboratory training in use of topographic maps, and recognition of common rocks and minerals.

GEOL A115 Environmental Geology 3 CR
 Contact Hours: 3 + 0
 Prerequisites: MATH A055.
 Course Attributes: UAA GER Natural Sciences Requirement.
 Special Note: Offered Fall and Spring Semesters.

An introduction to the study of applied geology. Environmental issues, focusing on geologic hazards, water and air quality, water supply, waste, energy, global systems, and planning utilizing technical, social, and political approaches to problem management.

GEOL A115L Laboratory in Environmental Geology 1-2 CR
 Contact Hours: 0 + 3-6
 Prerequisites: GEOL A100 or GEOL A111 or (GEOL A115 or concurrent enrollment).
 Course Attributes: UAA GER Natural Sciences.
 Special Fees.
 Special Note: Offered Fall and Spring Semesters.

Investigation of problems in environmental geology related to hydrology, acid rain, pollution, and geologic hazards with emphasis on the Anchorage area. Independent study format includes reading, measurements, use of computer programs, and field trips.

GEOL A178 Fundamentals of Oceanography 3 CR
 Contact Hours: 3 + 0
 Crosslisted with: BIOL A178.
 Prerequisites: MATH A055.

Principles of oceanography, with emphasis on the oceans' 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
 Crosslisted with: BIOL A179.
 Prerequisites: MATH A055.
 Corequisites: GEOL A178.
 Special Fees.

Laboratory exercises designed to illustrate principles and concepts developed in GEOL A178.

GEOL A190 Introductory Topics in Geology 1-3 CR
 Contact Hours: 1-3 + 0
 Special Fees.
 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.
 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 A320 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 A335	Structural Geology	4 CR
Contact Hours: 3 + 3 Prerequisites: GEOL A221 and MATH A108. 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.		
GEOL A340	Hydrogeology	3 CR
Contact Hours: 3 + 0 Prerequisites: GEOL A221 and CHEM A105. Special Fees.		
Focus on groundwater occurrence, storage, and transport. Stream hydrographs, duration curves, groundwater recharge, and streamflow measurements. Aquifers and aquifer properties such as porosity and permeability. Hydraulic head and applications of Darcy's Law. Groundwater flow equations and groundwater flow to wells. Geology of groundwater occurrence, water chemistry, water quality, and contamination.		
GEOL A350	Geomorphology	4 CR
Contact Hours: 3 + 3 Prerequisites: GEOL A221. Special Fees.		
Study of landforms and processes that affect their development, including tectonics, geologic structures, bedrock lithology, streams, glaciers, groundwater, and oceans. Laboratory focuses on formation and genesis of landforms based on evidence from topographic maps and aerial photography.		
GEOL A360	Geochemistry	3 CR
Contact Hours: 3 + 0 Prerequisites: GEOL A221 and (CHEM A106 or concurrent enrollment). Special Fees.		
Introduction to principles and applications of inorganic geochemistry. Emphasis on crystal structures and substitution in crystals, equilibrium geochemistry, dissociation of acids and bases, and mineral stability. Applying the laws of thermodynamics, Eh-pH diagrams, and oxidation-reduction reactions to geologic problems. Principles of radioactivity and geochronometers for age determination.		
GEOL A380	Anchorage Field Studies	3 CR
Contact Hours: 0 + 9 Prerequisites: GEOL A221. Special Fees.		
Field experience focusing on the Anchorage area. Field trips to Anchorage, Eagle River, Turnagain, and Matanuska Valley to investigate the geologic history, glacial history, plate tectonics, and environmental concerns. Local rocks, formations, fossils, glacial landforms and structures will be examined. Five full day field trips.		
GEOL A381	Kenai Peninsula Field Studies	3 CR
Contact Hours: 0 + 9 Prerequisites: GEOL A221. Special Fees.		
Nine day field excursion from Anchorage to Portage, Kenai, Nikiski, Homer, and Seward, Alaska, to explore gold mining, oil and gas exploration and production, Tertiary coal, fossils, paleoenvironments, coastal geomorphology, glacial history, and plate tectonics of the Kenai Peninsula. Includes a full day boat excursion in Kenai Fjords National Park.		

GEOL A382	Geologic Field Studies	3 CR
Contact Hours: 0 + 9 Prerequisites: GEOL A221. Special Fees.		
Special Note: May be repeated with change of subtitle for a up to 9 credit hours.		
Field excursion within the United States or another country to study the local and regional geology. Field notes, rock and outcrop descriptions, mapping and field exercises required.		
GEOL A410	Research Techniques in Geology	3 CR
Contact Hours: 3 + 0 Prerequisites: GEOL A221. Registration Restrictions: Junior standing.		
Introduction to and practice in research methods, writing, and presentation techniques in the geosciences. Research design, proposal writing, resume and job applications, scientific writing, critical review, and oral presentation techniques. Preparation for professional level scientific communication.		
GEOL A421	Invertebrate Paleontology	4 CR
Contact Hours: 3 + 3 Prerequisites: GEOL A221. Special Fees.		
Systematics of invertebrate phyla, which are important in the geologic record. Includes biostratigraphy, paleoecology, evolution, and functional morphology. Emphasis in lab on taxonomy and evolution of all major fossil invertebrate groups.		
GEOL A452	Sedimentology and Stratigraphy	4 CR
Contact Hours: 3 + 3 Prerequisites: GEOL A221 and [AS A252 or AS A253 or AS A307]. Special Fees.		
Survey of sediments including origins, classification, transportation, composition, structures, and diagenesis. Stratigraphic principles including lithostratigraphy, biostratigraphy, magnetostratigraphy, chronostratigraphy, and seismic stratigraphy. Lab includes grain size analysis, sedimentary structures, correlation, and field practicum.		
GEOL A454	Glacial and Quaternary Geology	3 CR
Contact Hours: 3 + 0 Prerequisites: GEOL A221. Special Fees.		
Glacial processes of erosion and deposition, and the modern and ancient landforms produced by ice. Quaternary history of glaciers, climate fluctuation, changes in terrestrial and marine environments. Evidence and techniques used to reconstruct past environments.		
GEOL A455	Permafrost and Periglacial Geomorphology	4 CR
Contact Hours: 3 + 3 Prerequisites: GEOL A350. Special Fees.		
Advanced study of periglacial and permafrost geomorphic processes, environments, and landforms. Properties of ice, ice dynamics, and frozen ground patterns and processes. Engineering and environmental problems, periglacial landscape dynamics, ecosystems dynamics and adaptations, paleo-environments, and impacts of climate change on periglacial systems. One weekend field trip required.		
GEOL A456	Geoarchaeology	3 CR
Contact Hours: 3 + 0 Prerequisites: ANTH A211 and GEOL A221. Special Fees.		
Geology for archaeologists, including rock identification of lithic sources, sediment analysis of site deposits, paleolandscape reconstructions of site locations, geochronology, and Quaternary environmental changes.		
GEOL A457	Soil Genesis and Classification	4 CR
Contact Hours: 3 + 3 Prerequisites: GEOL A350. Special Fees.		
Principles and applications of soil science with an emphasis on field description and interpretation of soils. Soil properties, processes, classification, soil forming factors, and engineering properties. Use of different laboratory methods and analyses will complement field studies.		
GEOL A460	Environmental Geochemistry	3 CR
Contact Hours: 3 + 0 Prerequisites: GEOL A360. Special Fees.		
Principles and applications of environmental geochemistry on a global scale. Geochemical cycles and chemical mass balance of the oceans. Emphasis on water cycle and geochemistry of the oceans, atmospheric and rainwater chemistry, chemical weathering of rocks and ore deposits, and river and lake geochemistry. Clay mineralogy and principles of sorption of cations and anions in geologic environments. Stable isotope fractionation and applications of isotope modeling of environmental systems. Specific examples of environmental geochemistry issues such as disposal of radioactive waste and metals. Participation in laboratory research project.		

GEOL A470 Contact Hours: 3 + 3 Prerequisites: GEOL A111. Registration Restrictions: Junior standing. Special Fees. Multidisciplinary approach to methods, concepts, and problems in reconstructing paleoenvironments. Emphasis on field and laboratory techniques covering geologic, ecological, and climatic records of change. Focus on Beringia and northern regions, but global perspective is maintained.	Paleoecology of Beringia	4 CR
GEOL A475 Contact Hours: 3 + 0 Prerequisites: GEOL A111 and PHYS A124. Special Fees. Introduction to principles and application of environmental geophysics. Emphasis on shallow geophysical techniques useful to investigate environmental problems associated with near surface geologic settings. Includes surveys and applications of potential field, electrical, electromagnetic, and seismic methods.	Environmental Geophysics	3 CR
GEOL A480 Contact Hours: 0 + 9 Prerequisites: GEOL A322 and GEOL A335 and GEOL A353. Special Note: Course may count for credit towards the major if geology field camp is taken elsewhere. Special Fees. 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.	Geologic Field Methods	3 CR
GEOL A481 Contact Hours: 0 + 9 Prerequisites: GEOL A350 and GEOL A480. Special Fees. Nine day field excursion from Anchorage to Healy, Fairbanks, Delta, Glennallen, and Chitina, Alaska, to explore coal and gold mining, permafrost environments, Pleistocene periglacial environments, glaciers of the Alaska Range, tectonics and volcanic hazards of the Wrangell Mountains. Geologic mapping and construction of stratigraphic sections in sedimentary rocks and Quaternary deposits. Includes Copper River raft trip.	Alaskan Field Investigations	3 CR
GEOL A482 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.	Geologic Field Investigations	3 CR
GEOL A490 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.	Advanced Topics in Geology	1-4 CR
GEOL A492 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.	Geology Seminar	1 CR
GEOL A495 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.	Geology Internship	1-3 CR
GEOL A498 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.	Student Research	1-3 CR

GEOL A499 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.	Senior Thesis	3 CR
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GEOL A690 Contact Hours: 1-4 + 0 Special Note: May be repeated with change of topic. Intensive studies on narrowly defined topics in Geological Sciences. Emphasis on content as well as instructional techniques.	Graduate Topics in Geology	1-4 CR
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GERMAN - GER

*Offered through the College of Arts and Sciences
Administration/Humanities Building (ADM) Suite 287, 786-4030
<http://language.uaa.alaska.edu/>*

GER A101 Contact Hours: 4 + 0 Course Attributes: UAA GER Humanities Requirement. Special Fees.	Elementary German I	4 CR
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Introduction for beginners with no prior knowledge of German. With the focus on oral communication, the course emphasizes listening comprehension, pronunciation, and everyday vocabulary. Students are also introduced to basic grammatical and sentence structures, to reading and writing the language, and to the culture of the German-speaking countries.

GER A102 Contact Hours: 4 + 0 Prerequisites: GER A101. Course Attributes: UAA GER Humanities Requirement. Special Fees.	Elementary German II	4 CR
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Continuation of GER 101, designed for students able to comprehend and initiate very basic survival conversations on everyday topics, read short texts and write simple paragraphs. Students gain confidence in asking and answering questions, learn to sustain modest conversations, increase their vocabulary, reading and writing skills, and knowledge of grammatical and sentence structures, and deepen their understanding of the German-speaking cultures.

GER A105 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. Stacked with: GER A205 and GER A305. Special Fees. Special Note: May be repeated once for credit.	Conversational Skills Maintenance I	1 CR
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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 Contact Hours: 4 + 0 Prerequisites: GER A102. Course Attributes: UAA GER Humanities Requirement. Special Fees.	Intermediate German I	4 CR
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Further development of students' listening, speaking, reading, and writing proficiency, with continued emphasis on purposeful communication. Students gain greater confidence in speaking, become more adept at creating with the language, and begin to sustain connected discourse. They are introduced to more sophisticated grammatical structures and to a wider range of current topics.

GER A202 Contact Hours: 4 + 0 Prerequisites: GER A201. Course Attributes: UAA GER Humanities Requirement. Special Fees.	Intermediate German II	4 CR
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For students able to communicate with some confidence, in German, on a variety of everyday topics. They will continue to build their vocabulary by increasing the range of conversational topics using authentic and more demanding audio-visual materials, and by reading longer and more sophisticated texts, e.g., from German literature or the contemporary press. They will review and thereby increase their command of grammatical structures.

GER A205 Conversational Skills Maintenance 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 German.

Grade Mode: Pass/No Pass.

Stacked with: GER A105 and GER A305.

Special Fees.

Special Note: May be repeated once for credit.

A maintenance and skills enhancement course for intermediate students of German, designed primarily to help them retain and solidify what they learned in Elementary German. With the focus on communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

GER A301 Advanced German I 4 CR

Contact Hours: 4 + 0

Registration Restrictions: Four semesters of college German or four years of high school German.

Special Fees.

Continued emphasis on developing students' listening, speaking, reading, and writing proficiency and cultural competency, aimed at effective communication and accompanied by the study of more complex and less common grammatical and stylistic structures. Students will study and discuss the formative events, forces, and personalities in the development of German culture.

GER A302 Advanced German II 4 CR

Contact Hours: 4 + 0

Prerequisites: GER A301.

Special Fees.

Continuation of GER 301. Increased emphasis on developing students' speaking and writing proficiency, reading and analytical skills, and cultural competency. Aimed at effective communication and the ability to function in a German cultural context. Continued study and discussion of formative events, forces, and personalities in the development of German culture.

GER A305 Conversational Skills Maintenance III 1 CR

Contact Hours: 0 + 2

Registration Restrictions: Proficiency as after four semesters of college-level or four years of high school study in German.

Stacked with: GER A105 and GER A205.

Special Fees.

Special Note: May be repeated once for credit.

A maintenance and skills enhancement course at the advanced level, designed primarily to help students of German to retain and to consolidate what they have learned. With the focus on oral communication, the course emphasizes speaking, listening comprehension and vocabulary building.

GER A310 Selected Topics in Advanced German 3 CR

Contact Hours: 3 + 0

Prerequisites: GER A202.

Special Fees.

Special Note: May be repeated for credit with a different subtitle.

An advanced course for students interested in conversation practice, writing skills, and cultural information about the German-speaking world. There will be a different topic each time the course is offered, e.g., Austria, Germany today, Switzerland, contemporary women, conversation and composition, current events, film, and the media. Conducted in German.

GER A490 Selected Topics in German Literature 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Three years of college German or equivalent.

Special Fees.

Special Note: Will be offered alternate semesters or years. May be repeated for credit if topic varies.

An advanced course for students interested in German literature with sufficient language proficiency to read and discuss assigned readings in German. Focus may be on periods, genres, individual authors, groups of authors, movements, works from different periods dealing with the same topics, or individual works. Conducted in German.

GEOGRAPHIC INFORMATION SYSTEMS - GIS*Offered through the School of Engineering**Engineering Building (ENGR), Room 201, 786-1900**www.engr.uaa.alaska.edu***GIS A123 Introduction to Geographic Information Systems (GIS) 1 CR**

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 1 CR

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 1 CR

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 A126 Introduction to ArcIMS Maps 1 CR

Contact Hours: 1 + .5

Registration Restrictions: Instructor approval.

Grade Mode: Pass/No Pass.

Special Fees.

Introduces key aspects for manipulating ArcIMS web-based maps. Functionalities to be covered include queries, symbolization, adding layers, and buffering.

GIS A127 Introduction to Metadata for GIS 1 CR

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) 4 CR

Contact Hours: 3 + 2

Registration Restrictions: Computer competency (see admission requirements) or instructor approval.

Special Fees.

Special Note: Offered Fall and Spring Semesters.

Introduction to basic 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 3 CR

Contact Hours: 0 + 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 A333 GIS and the Marine Environment 3 CR

Contact Hours: 2 + 2

Prerequisites: GIS A268 with minimum grade of C.

Investigation of the physical, biotic, political, and cultural aspects of the oceans, seas, and coastal zones, which comprise about 75% of the Earth's surface. The essential processes, theories, and information basic and necessary for those who want to apply Geomatics technologies to the seas. The application of Geographic Information Systems (GIS) mapping and analyses to marine environments.

GIS A366	Spatial Information Analysis and Modeling	3 CR
Contact Hours: 2 + 2		
Prerequisites: GIS A268 with minimum grade of C.		
Analysis and modeling of spatial and nonspatial data. Discussion of spatial entities and their geometries. Modeling and spatial data retrieval and reasoning using structured query language. Error modeling and data uncertainty.		
GIS A367	GIS and Remote Sensing	3 CR
Contact Hours: 2 + 2		
Prerequisites: GIS A268 with minimum grade of C.		
Special Fees.		
Introduces the utility of remote sensing for a variety of applications and especially with the use of remotely sensed data in a geographic information system (GIS) environment. Students will become experienced in using Erdas IMAGINE and ArcView Image Analyst software. Image data, including Landsat, aerial photography, Ikonos, and AVHRR, that depict land cover, marine environments, and physical and cultural landscapes will be analyzed.		
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: GIS A268 with minimum grade of C.		
Special Fees.		
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, GPS, 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 will be covered.		
GIS A375	GIS and Public Health	3 CR
Contact Hours: 2 + 2		
Prerequisites: GIS A268 with minimum grade of C.		
Special Fees.		
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 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.		
Special Fees.		
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.		

GUIDANCE - GUID

*Offered through the Advising and Counseling Center
Business Education Building (BEB), Room 115, 786-4500
<http://advise.uaa.alaska.edu/>*

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.		
GUID A201	Peer Advising Practicum	2 CR
Contact Hours: 1 + 2		
Prerequisites: GUID A101.		
Registration Restrictions: Counselor recommendation.		
Designed to provide advanced helping skills for student paraprofessionals involved in the peer advisor program. Participation in training, experiential learning activities and personal growth experiences enhances functioning as student helpers.		
GUID A204	Student Association Leadership II	1-3 CR
Contact Hours: 2 + 2		
Offered only at Kenai Peninsula College.		
In-depth study of student leadership including organizational planning, management, program planning, budgeting, group dynamics, communication, and leadership theories and techniques as applied to the student association. Emphasis on identification of students' leadership qualities and development of strategies to enhance leadership skills. Application of skills utilizing the student association as a laboratory.		

HEALTH CARE ASSISTING - HCA

*Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 219, 786-4930
<http://alliedhealth.uaa.alaska.edu/alliedhealth/>*

HCA A055 Health Care Assistant 4 CR

Contact Hours: 3 + 2

Registration Restrictions: Admission to the program.

Special Fees.

Special Note: HCA A055 may not be used to satisfy requirements for an Associate or Baccalaureate in Nursing.

Introduces applied theory and practice of Health Care Assistant functions performed under the supervision of a nurse.

HCA A095 Health Care Assistant Practicum 3 CR

Contact Hours: 1 + 4

Prerequisites: HCA A055 with minimum grade of C.

Registration Restrictions: Current Basic Life Support (BLS) certification, completion or progress toward completing required immunizations.

Grade Mode: Pass/No Pass.

Special Fees.

Special Note: HCA A095 may not be used to satisfy requirements for an Associate or Baccalaureate Degree of Nursing

Applies Health Care Assistant skills in a long-term health facility and hospital under the supervision of facility clinical staff and university faculty.

HCA A176 First Aid and CPR for Professionals 1 CR

Contact Hours: .5 + 1

Grade Mode: Pass/No Pass.

Special Fees.

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.

HISTORY - HIST

*Offered through the College of Arts and Sciences
Social Sciences Building (SSB), Room 333, 786-1539
<http://history.uaa.alaska.edu/>*

HIST A101 Western Civilization I 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Humanities Requirement. UAA GER Social Sciences Requirement.

A survey of the origins of Western Civilization in the ancient Near East and subsequent development through 1650. The major political, social, economic, and intellectual developments will be emphasized.

HIST A102 Western Civilization II 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Humanities Requirement. UAA GER Social Sciences Requirement.

A survey of the developments in Western Civilization from 1650 to the present. The major social, political, economic, and intellectual characteristics of Western Society will be emphasized.

HIST A121 East Asian Civilization I 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Humanities Requirement. UAA GER Social Sciences 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 decline of the Ming Dynasty in China, the successful unification of Japan under the Tokugawa, and the end of the Japanese invasions of Korea).

HIST A122 East Asian Civilization II 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Humanities Requirement. UAA GER Social Sciences Requirement.

Provides a broad understanding of the historical, cultural, and social development of East Asian civilization from approximately 1600 (the rise of the Qing Dynasty in China, the successful unification of Japan under the Tokugawa, and the revival of the Yi Dynasty in Korea) through the twentieth century.

HIST A131 History of United States I 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Humanities Requirement. UAA GER Social Sciences Requirement.

A survey of the discovery and exploration, colonial period, American Revolution, the Constitution, federal period, Jeffersonian-Jacksonian Democracy, the West, Sectionalism, Slavery and Abolitionism, American Culture, and Civil War.

HIST A132 History of United States II 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Humanities Requirement. UAA GER Social Sciences Requirement.

A survey of the Reconstruction of the South, the far West, growth of industry and labor, "Gilded Age," Imperialism, Progressivism, World War I, "Roaring Twenties," Great Depression, Isolationism and World War II, Cold War, modern American society, Vietnam, and after.

HIST A225 Ancient History 3 CR

Contact Hours: 3 + 0

Registration Restrictions: HIST A101 recommended.

A survey of the origins and development of western civilization from beginnings in ancient Near East through end of the Roman Empire. Emphasis on interrelationships of political, social, economic, cultural, and intellectual movements in various cultures.

HIST A226 Medieval History 3 CR

Contact Hours: 3 + 0

Registration Restrictions: HIST A101 recommended.

A survey of the evolution of Western Civilization from end of the Roman Empire to beginnings of Renaissance. Emphasis on interrelationships of political, social, economic, cultural, and intellectual movements.

HIST A237 American Civil War 3 CR

Contact Hours: 3 + 0

Special Fees.

Study of North-South differences causing American Civil War, war itself in considerable detail, and legacy of that war for today.

HIST A238 Black History I 3 CR

Contact Hours: 3 + 0

Afro-American history from colonial times to 1865. Social, economic, psychological, religious, and racial aspects of Africa. Slave trade, slavery, slave trading nations, and Civil War. Impact of various racial theories and practices on black/white relations.

HIST A239 Black History II 3 CR

Contact Hours: 3 + 0

Afro-American history from 1865 to present. Impact of technology, changing social and economic conditions, and international scene on Black Americans. Consideration of leaders, organizations, concepts and issues that affect blacks and society at large.

HIST A244 Studies in Film History 3 CR

Contact Hours: 3 + 0

Stacked with: HIST A444.

Special Fees.

Special Note: May be repeated once for credit with a change of subtitle.

Selected topics in motion picture history. Ranges from genre studies (musicals, comedies, science fiction) to special areas of film history (animation, special effects, major stars and studios, significant directors). Subtitle varies.

HIST A257A A Gold Rush Era: Alaska and the Yukon 3 CR

Contact Hours: 3 + 0

Western United States, Canada, and Alaska will be studied in detail to determine their significance as a part of the overall evolution of the Yukon-Alaska gold rush during the period of 1846-1920. California, Oregon, Washington, and British Columbia stampede activities will be considered as an introduction leading to culminating the gold rush era of the Yukon and Alaska.

HIST A261 Russian History 3 CR

Contact Hours: 3 + 0

Origins of early (Kievan) Russia, Mongol Era, and rise of Moscow. Modern Russia to 20th century.

HIST A306 The Roman Empire 3 CR

Contact Hours: 3 + 0

Prerequisites: HIST A101 and HIST A225.

The Roman Empire from the assassination of Julius Caesar to the "fall" of the Empire in AD 476. Its principal focus is upon the political and social history of the Empire.

HIST A310 Renaissance/Reformation Europe 3 CR

Contact Hours: 3 + 0

Prerequisites: HIST A101.

Examines the key political, social, economic and cultural developments in Renaissance and Reformation Europe. Emphasis will be placed on the medieval legacy; Renaissance art, power and family life; European encounters and conquests; the emergence of a new world economy; religious reform and revolution; and daily life in Reformation Europe.

HIST A312	Early Modern Europe: 1600-1789	3 CR
Contact Hours: 3 + 0 Prerequisites: HIST A102.		
Examines the key political, social, economic and cultural developments in Early Modern European history. Special emphasis will be placed on religious warfare and the military revolution; absolutism and constitutionalism; colonies and empires; commercial and agricultural revolutions; scientific revolution and enlightenment; witchcraft; social estates and daily life; and the Ancien Regime on the eve of Revolution.		
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 globalism - 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 A341	History of Alaska	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Junior standing. Stacked with: HIST A641. Course Attributes: UAA GER Humanities Requirement. UAA GER Social Sciences Requirement.		
Introduction to background of Alaska and its relationship to America and the world, including anthropological aspects of Native groups, land bridge theory, Russian discovery, occupation and management, orthodoxy, purchase, American organization and development, gold rushes, congressional definition and federalism, Native claims history, statehood, oil and the disposition 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/INTL 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.		

HIST A354	Eyes On the Prize: America’s Civil Rights Movement	3 CR
Contact Hours: 3 + 0 Telecourse based on the much acclaimed PBS/blackside history of the modern Civil Rights Movement. Eyes I (“America’s civil rights years”) consists of six one-hour programs from the landmark school desegregation case, Brown v. Board of Education, to the student sit-ins and voter registration drives at Selma and elsewhere. Eyes II (“America at the racial crossroads”) consists of eight one-hour programs from the rioting in Watts and Detroit to the new racial politics of the 1980’s. Covers the years 1954-1985.		
HIST A355	Major Themes in US History	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Sophomore standing. Time, continuity, and change in American history from the Colonial period to the 21st Century with an emphasis on case studies. A speaking and writing intensive course.		
HIST A360	Modern Economic History	3 CR
Contact Hours: 3 + 0 Prerequisites: HIST A102 and ECON A201. Crosslisted with: ECON A360.		
A survey of the economic history of the modern era (1600 to present). Emphasis will be placed on Western Europe and the United States. Additional coverage will be given to Japan, the Soviet Union and one Third World Nation.		
HIST A374	History of Canada to 1867	3 CR
Contact Hours: 3 + 0 Crosslisted with: INTL A374. A survey of major developments in the history of Canada to 1867.		
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 A384	Russian Women	3 CR
Contact Hours: 3 + 0 Crosslisted with: RUSS A384. 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.		
HIST A390A	Themes in World History	3 CR
Contact Hours: 3 + 0 Special Note: Course prerequisites vary with topic. Analysis of patterns of meaning in the cumulative record of the human experience from prehistory to the present on the most inclusive scale possible: the entire world.		
HIST A401	The History of Warfare	3 CR
Contact Hours: 3 + 0 Prerequisites: HIST A101 and HIST A102. A study of the history of warfare from the classical age to the present. The following topics are examined: the relationship between war and social, political and economic organization; the evolution of weapons systems; the growth of modern professional and mass armies; the “Laws” of war; the development of modern strategic and tactical thought; and the impact of the atomic age.		
HIST A402	The Second World War	3 CR
Contact Hours: 3 + 0 Prerequisites: HIST A102. 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. Wartime diplomacy and the postwar settlements are also emphasized.		

HIST A415 Anglo-Saxons and Vikings: History and Geography in the 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 and political arrangement and the effects of climate and environmental modification on population growth and migration.

HIST A411 History of Modern Germany II 3 CR

Contact Hours: 3 + 0

Prerequisites: HIST A102.

The history of Germany from World War I to the present. The Weimar Republic, the Third Reich, World War II, occupation, and the origin, development, and relationship of the two existing German states will be the basic units studied.

HIST A418 Tudor and Stuart England 3 CR

Contact Hours: 3 + 0

Prerequisites: HIST A101.

The history of England from accession of Henry VII down 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 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 A101 and HIST A102.

Explores the socio-economic, political, and cultural foundations of imperial Russia from Peter the Great and concludes with the February Revolution of 1917. Major topics include the nature of autocracy, the role of serfdom, and the roots of Russia's revolutionary tradition.

HIST A425 Soviet Union 3 CR

Contact Hours: 3 + 0

Russian history from the origins of the Bolshevik Revolution and concentrating on Lenin and his contribution to Marxism; the struggle between Trotsky and Stalin; Stalinization (purges and collectivization of agriculture); World War II and the Cold War; detente; and the arms race.

HIST A431 Colonies and Revolution 3 CR

Contact Hours: 3 + 0

Prerequisites: HIST A131 and HIST A132.

Settlement of British America, social, political, economic and ideological development of American colonies, prelude to revolution, the American revolution, drafting of the Constitution, and the Federalist Era.

HIST A434 Early National Period, 1800-1850 3 CR

Contact Hours: 3 + 0

Prerequisites: HIST A131 and HIST A132.

Jeffersonian policies and ideology; struggle with England and the War of 1812; transcontinental treaties and the Monroe Doctrine; The Age of Jackson and Westward Expansion; the Era of Reform; and the Mexican War.

HIST A440 The American West Since 1850 3 CR

Contact Hours: 3 + 0

Prerequisites: HIST A131 and HIST A132.

Study of major themes in Western American history, including economic, social and ideological change, and the historiography of the American West.

HIST A444 Advanced Studies in Film History 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Junior standing.

Stacked with: HIST A244.

Special Fees.

Special Note: May be repeated once for credit with a change of subtitle. Only 3 credits of HIST A444 may be applied to either a major or minor in history.

Advanced studies in selected topics in motion picture history. Topics range from genre studies (musicals, comedies, science fiction) to special areas of film history (animation, special effects, major stars and studios, significant directors). Subtitle varies.

HIST A451 Populists and Progressives: America, 1877-1917 3 CR

Contact Hours: 3 + 0

Prerequisites: HIST A132.

The development of the reform state, from the rise of the People's Party to the progressive era presidencies of Roosevelt, Taft, and Wilson.

HIST A452 America in War and Peace, 1917-1945 3 CR

Contact Hours: 3 + 0

Prerequisites: HIST A132.

An examination of Americans responding to the crises of war and depression.

HIST A453 America Since 1945 3 CR

Contact Hours: 3 + 0

Stacked with: HIST A653.

Topics will include the growth of presidential power; McCarthyism, the FBI, and civil liberties; the rise of the national security state; civil rights and antiwar movements of the 1960's and Watergate.

HIST A465 Early American Culture 3 CR

Contact Hours: 3 + 0

Prerequisites: HIST A131 and HIST A132.

Primary American ideas and values in their formative period, including Puritanism, democracy, equality, right of self-governance, education, free enterprise, self-criticism, and manifest destiny.

HIST A466 Modern American Culture 3 CR

Contact Hours: 3 + 0

Prerequisites: HIST A131 and HIST A132.

Primary American ideas and values in their maturity, including free enterprise, social gospel, evolution, individualism, success, freedom, criticism, and heroism.

HIST A477 Senior Seminar 3 CR

Contact Hours: 3 + 0

A course in research methodology intended for history majors and others, normally taken in the senior year of study. Students will prepare a major research paper, utilizing primary research material under the direction of department faculty.

HIST A478 Studies in Early American History 3 CR

Contact Hours: 3 + 0

Prerequisites: HIST A131.

Special Note: May be repeated for credit with a different subtitle.

An examination of selected fundamental topics in early American history. Areas will be studied as student need and faculty expertise indicate. Subtitle varies.

HIST A479 Studies in Modern American History 3 CR

Contact Hours: 3 + 0

Prerequisites: HIST A131 and HIST A132.

Special Note: May be repeated for credit with a different subtitle.

This course is intended to provide an intensive examination of selected fundamental topics in American history. Specific areas will be treated as student need and faculty expertise indicate. Subtitle varies.

HIST A486 Studies in Modern Europe 3 CR

Contact Hours: 3 + 0

Prerequisites: HIST A102.

Special Note: May be repeated for credit with a change of subtitle.

This course is a study of selected important topics in modern European history.

These include World War I, European Fascism and National Socialism, European Marxism, and World War II. The course will be offered as student need and faculty expertise indicate. Subtitle varies.

HIST A641 Studies in Alaska History 3 CR

Contact Hours: 3 + 0

Stacked with: HIST A341.

Special Note: Not available for credit to students who have taken HIST A341.

Advanced study of various topics in Alaska history, including Russian exploration, occupation and development, social conditions in the Russian period, the U.S. Purchase, American development and economic relationships, political development, Native issues, environmental history, and changing perceptions.

HIST A653 The United States, 1945 to the Present 3 CR

Contact Hours: 3 + 0

Stacked with: HIST A453.

Special Note: Not available for credit to students who have taken HIST A453.

Advanced study of selected topics in the political and cultural history of America since the Second World War.

HONORS - HNRS

*Offered through the Office of Academic Affairs
Business Education Building (BEB), Room 119, 786-1086
<http://honors.uaa.alaska.edu/>*

HNRS A192 Honors Seminar: Enduring Books 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Enrollment limited to students admitted to UAA Honors Program, and also open to students in a UAA departmental honors program who have permission to enroll from the UAA Honors Program Director.

An honors seminar focusing on the directed reading of a single book of enduring significance.

HNRS A292 Honors Seminar in Social Science 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Enrollment open to students admitted to UAA Honors Program, and to students in a UAA departmental honors program who have permission to register from the UAA Honors Program Director.

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 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 A310 Community Service: Theory and Practice 3 CR

Contact Hours: 1 + 6

Prerequisites: HNRS A192 and HNRS A292.

Registration Restrictions: Enrollment open to students admitted to UAA Honors Program, and to students in a UAA departmental honors program who have permission to register from the UAA Honors Program Director.

Explores questions of service, community, and self, and includes guided volunteer service with a cultural organization, social service organization, or government agency.

HNRS A392 Honors Thesis Seminar 1 CR

Contact Hours: 1 + 0

Prerequisites: HNRS A192 and HNRS A292 and HNRS A310.

Registration Restrictions: Enrollment open to students admitted to UAA Honors Program, and to students in a UAA departmental honors program who have permission to register from the UAA Honors Program Director.

In-depth application of discipline research skills to a particular problem. Develops an understanding of research problems and research methods used by different disciplines.

HNRS A490 Senior Honors Seminar 6 CR

Contact Hours: 6 + 0

Registration Restrictions: Enrollment limited to students admitted to UAA Honors Program, and also open to students in a UAA departmental honors program who have permission to enroll from the UAA Honors Program Director. Completion of all lower-division and junior-level honors requirements.

Special Note: The course extends over both fall and spring semesters. 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. Students will engage in an intense intellectual experience that develops an integrative perspective leading to an enhanced understanding of the complex world of the future and of their role in it.

HNRS A499 Honors Thesis 3 CR

Contact Hours: 0 + 6

Registration Restrictions: Senior Standing. Completion of lower-division and junior-level honors requirements. Permission from the UAA Honors Program Director and approval by a faculty member acting as thesis advisor.

Special Note: Enrollment limited to students admitted to UAA Honors Program.

Independent research under faculty supervision, including formulation of research topic, research and analysis, and defense.

HEALTH SCIENCES - HS

*Offered through the College of Health & Social Welfare
Diplomacy Building (DPL), Room 404, 786-6565
<http://hs.uaa.alaska.edu/>*

HS A220 Core Concepts in the Health Sciences 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Social Sciences Requirement.

An orientation to health problems and issues. The basic dynamics of health and illness will be explored, the transition from infections to chronic illness will be examined, and the major health problems in the U.S. and Alaska will be defined. Medical, psychological, socio-cultural, and environmental factors will be related to health status and prevention of illness.

HS A350 Drugs and Drug-Taking Behavior 3 CR

Contact Hours: 3 + 0

Prerequisites: PSY A111.

Comprehensive overview of substance abuse-related disorders. Special emphasis is given to understanding the nature of alcohol and drugs, and their action and effects on the body. Theories of addictive disorders, treatment, and prevention are also addressed.

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 A379 Health Data Analysis 4 CR

Contact Hours: 3 + 3

Prerequisites: MATH A105.

A first course on analysis of data commonly obtained in health research. Common practices and conventions of the presentation of health research results are presented. Current issues such as relative risk and life tables are also discussed.

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 A480 Contemporary Issues in Addiction Studies 1-3 CR

Contact Hours: 1-3 + 0

Prerequisites: HS A350.

Special Fees.

Covers topics that are consistent with contemporary issues related to the field of addiction studies. Subjects focus on such areas as: AIDS and substance abuse, ethics, and drug testing. Other topics will reflect recent concerns in the field.

HS A484 Drug Actions of Psychoactive Drugs 3 CR

Contact Hours: 3 + 0

Prerequisites: HS A350.

An advanced level course designed to assist substance abuse and related health care professionals to understand the origin, nature, chemistry, effects, and uses of psychoactive drugs on human behavior. Content will focus on the classification, administration, distribution, and the biochemical and physical effects of psychoactive chemicals, with an emphasis on the pharmacology of medications used to treat substance abuse-related disorders.

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 A605 Public Health and Society 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Admission to MPH Program or Faculty Permission.
Special Fees.

Incorporates behavioral and social science concepts in the analysis of a variety of public health issues nationally, particularly Alaska, and the northern regions. Also presents how socioeconomic status, culture, race/ethnicity, age, and gender relate to health and disease outcomes and the quality of life. Students gain experience in problem identification, assessment, intervention, and evaluation through analysis of behavioral, cultural, and attitudinal factors.

HS A610 Occupational and Environmental Health 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Admission to MPH Program or Faculty Permission.
Special Fees.

Provides a practical overview of occupational health and safety, and environmental health. Gives special attention to issues surrounding work-related illnesses and injuries and environmental concerns in Alaska and the northern environment. Students learn practical approaches regarding prevention, finding resources, and problem solving. They also gain an understanding of legal, political, and cultural issues involved when dealing with occupational and environmental health.

HS A615 Health Services Administration 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Admission to MPH Program or Faculty Permission.
Special Fees.

Provides students with the basic knowledge necessary to understand the planning, organization, administration, management, evaluation, and policy of health programs in the United States and, particularly, the state of Alaska. Addresses issues such as the current provision of hospital and ambulatory care, how health care is financed, and the politics of health care delivery.

HS A625 Biostatistics for Health Professionals 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Undergraduate statistics course with grade of C or better and graduate standing.
Crosslisted with: NS A625.

Principles of statistical reasoning and quantitative skills for analyzing health-related 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 clinical practice and 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).

Registration Restrictions: Graduate Standing.

Grade Mode: Pass/No Pass.

Crosslisted with: NS A625L.

Special Fees.

Elective computer laboratory to teach statistical computer packages to use in performing statistical data analysis.

HS A626 Principles of Epidemiology 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing or Faculty Permission; Provide documentation indicating a grade of 2.00 ("C" or higher) in an introductory statistics course which covers descriptive and inferential statistics.

Crosslisted with: NS A626.

Special Fees.

Introduces students to the principles and methods of epidemiological investigation of common national and state public health problems, ranging from infectious and noninfectious diseases to social, behavioral, and environmental concerns. Discusses different types of epidemiological study design, and explores past and present trends in epidemiology, giving special attention to epidemiological issues in Alaska and the northern regions. Clinical application within health care administration, nursing, social work, and public health are emphasized.

HS A628 Program Evaluation 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing in Social Work, Health Sciences or related discipline. Prior research courses or research experience desirable.

Crosslisted with: SWK A628.

Special Fees.

Provide knowledge of purpose, design, and implementation of social services program evaluation process. Develop ability to conceptualize, and to carry out an actual program evaluation relative to the student's practicum placement. Covers both formative and summative evaluation processes. Includes necessity for evaluation and issues of cultural competence of evaluators.

HS A629 Public Health Research Tools and Methods 4 CR

Contact Hours: 3 + 2

Prerequisites: HS A626 or NS A626.

Registration Restrictions: Minimum grade of C in an introductory statistics course and admission to MPH program; or faculty permission

Special Fees.

Introduces students to the basic principles and methods of public health research from its conception to its analysis and evaluation. Discusses statistical concepts and issues of research bias and validity. Significant amount of data from Alaska and its surrounding northern regions are utilized, and ethical issues in research are presented. The complementing lab session of the course gives students a practical hands-on experience with various computer statistical programs and databases.

HS A630 Public Health Emergencies and Disasters 3 CR

Contact Hours: 3 + 0

Prerequisites: HS A629.

Registration Restrictions: Admission to MPH Program or Faculty Permission.

Special Fees.

Exposes students to public health issues concerning terrorism, war, and natural or human-made disasters and emergencies in different parts of the world and nationally, particularly, the State of Alaska since the last decade. Teaches students effective public health interventions during such emergency situations-from conducting a public health needs assessment to establishing basic health services. Political, legal, and ethical challenges of public health emergencies are addressed; and the controversial influence of donor agencies and the media are discussed.

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 Public Health Thesis 4 CR

Contact Hours: 1 + 6

Prerequisites: HS A605 and HS A610 and HS A615 and [HS A626 or NS A626] and HS A629.

Registration Restrictions: Admission to MPH Program or Faculty Permission.

Special Fees.

Required for students completing the Master of Public Health in Public Health Practice degree. Involves group seminar, independent research, policy analysis, program evaluation, or other thesis project under the supervision of an individual graduate study committee that is also monitored by an outside reader. Culminates in a document prepared to publication standards and a public presentation.

HUMANITIES - HUM

*Offered through the College of Arts and Sciences
Social Sciences Building (SSB), Room 335, (907) 786-1761
<http://cas.uaa.alaska.edu/>*

HUM A205 Fridays Ten 'Til Two 1 CR

Contact Hours: 1 + 0

Stacked with: EAH A049.

Special Fees.

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.

Course Attributes: UAA GER Humanities Requirement.

Special Note: Offered as Demand Warrants.

Integrated exploration of fundamental principles of literature, music, philosophy, and visual arts.

HUM A212 Introduction to Humanities II 3 CR

Contact Hours: 3 + 0

Prerequisites: ENGL A111.

Course Attributes: UAA GER Humanities Requirement.

Special Note: Offered as Demand Warrants.

A study of a given historical period or periods with reference to art, literature, philosophy, and music.

HUM 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.

HUM 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.

HUM A250 Myths and Contemporary Culture 3 CR

Contact Hours: 3 + 0

Prerequisites: ENGL A111 and COMM A111.

Course Attributes: UAA GER Humanities Requirement.

Special Note: Offered as Demand Warrants.

Survey of the origin, function, and history of myths which affect contemporary culture. From the earliest Sumerian epic to Joseph Campbell's "The hero with a thousand faces," myths will be traced through their transformations in literature, sculpture, music, painting, and folk tales.

HUMAN SERVICES - HUMS

*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.

Special Note: Offered Fall and Spring Semesters.

Analyzes social inequality and the American social welfare system. Traces historical development of government response to social inequality. Explores historical and persisting dilemmas—ethical, political, social and economic—explicit and implicit in social welfare provisioning. Assists in understanding of social welfare problems and their 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

Special Fees.

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 A140 Family Mediation 3 CR

Contact Hours: 3 + 0

Trains students in basic mediation skills for resolving family conflict in domestic relations, family business situations and crisis situations within the community. Mediation skills are presented, evaluated and practiced.

HUMS A153 Human Relations 3 CR

Contact Hours: 3 + 0

Crosslisted with: PSY A153.

Special Fees.

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

Special Fees.

A survey of communication, problem solving and interaction skills as applied to the world of work.

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 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 A231 Applied Behavioral Analysis I 2 CR

Contact Hours: 2 + 0

Overview of behavioral analysis and its implementation by direct care providers who work with populations requiring specialized interventions. Includes social learning theory, specific behavior management procedures and techniques, teaching new behaviors, reducing undesirable behaviors, task analysis and data collection and interpretation. Emphasis on student skill development in working with emotionally disturbed and developmentally disabled youth and adults and socially maladapted youth.

HUMS A232	Applied Behavioral Analysis II	2 CR
Contact Hours: 2 + 0 Prerequisites: HUMS A231. Offers in-depth understanding and proficiency in applied behavioral analysis. Application of skills in teaching new behaviors, reducing undesirable behaviors, and managing behaviors among varied populations requiring specialized interventions. Also examines integration of counseling and behavioral programming.		
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.		
HUMS A295A	Human Services Practicum I	4 CR
Contact Hours: 1 + 10 Prerequisites: HUMS A101 and HUMS A223. Registration Restrictions: Faculty recommendation. Special Fees. Students will be placed in a community Human Services Agency, where they will examine agency structure and functioning, observe professional relationships, and discover interagency networks. Students will then begin to apply their knowledge to entry level helping skills with agency clientele. Concurrently, students participate in a weekly class seminar structured to facilitate the integration of human service knowledge and theory with practical field application.		
HUMS A295B	Human Services Practicum II	4 CR
Contact Hours: 1 + 10 Prerequisites: HUMS A295A. Special Fees. Continuation of HUMS A295A with emphasis on increasing responsibilities for providing direct client services, assessing problems, and planning interventions within the placement agency. Concurrently, students participate 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. 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. 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 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 Spring 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, reciprocation, 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 A462 Human Services Practicum III 4 CR
 Contact Hours: 1.5 + 7.5
 Prerequisites: HUMS A262 and HUMS A263.
 Registration Restrictions: Admission to the Human Services Bachelor Degree Program
 Special Fees.
 Special Note: Offered Fall and Spring Semesters.

Agency placement with advanced levels of responsibility for providing direct client services and/or completing special projects or activities in the agency. Extends development of student's professional and specialized skills. Weekly classroom seminar required.

HUMS A463 Human Services Practicum IV 4 CR
 Contact Hours: 1.5 + 7.5
 Prerequisites: HUMS A462.
 Special Fees.
 Special Note: Offered Fall and Spring Semesters.

Continuation of HUMS A462. Agency placement with advanced levels of responsibility for providing direct client services and/or special projects or activities in the agency. Designed to further develop professional skills and to learn new roles or specialized skills. Weekly classroom seminar is required. More time will be spent in direct client contact to enhance interpersonal counseling skills. Increasing independence is emphasized.

INTERIOR DESIGN - ID

*Offered through the College of Arts and Sciences
 Fine Arts Building (ARTS), Room 302, 786-1783
<http://cas.uaa.alaska.edu/>*

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.

INTERNATIONAL STUDIES - INTL

*Offered through the College of Arts and Sciences
 Social Sciences Building (SSB), Room 359, 786-4856
<http://cas.uaa.alaska.edu/>*

INTL A301 Canada: Introductory Survey 3 CR
 Contact Hours: 3 + 0
 Course Attributes: UAA GER Social Sciences Requirement.
 Special Note: Satisfies university-wide general education degree requirements.

Multidisciplinary introduction to Canadian society, including Canadian geography, anthropology, history, sociology, politics, law, economics and culture. The course is team-taught by faculty from a number of disciplines.

INTL A302 Canada: Contemporary Issues 3 CR
 Contact Hours: 3 + 0
 Prerequisites: INTL A301.
 Special Fees.
 Special Note: May be repeated for credit with a change of subtitle.

Contemporary Canadian issues and topics including health and environment, northern development, U.S.-Canada relations, Canadian international relations, the multilingual society, education, arts and humanities, and northern engineering.

INTL A303 Canada: Selected Topics 3 CR
 Contact Hours: 3 + 0
 Stacked with: INTL A603.
 Special Fees.

Special Note: May be repeated for credit with a change of subtitle.

Each offering focuses on a different aspect of Canadian life. Topics include anthropology and Native peoples of Canada, history, sociology, politics, economics and resources, film, theatre, literature, education, and the health system.

INTL A304 Canada: Field Study Tour 1 CR
 Contact Hours: 0 + 3
 Special Note: May be repeated for credit with change of subtitle.

A study tour to Canada offering students the opportunity to focus on aspects of the geography, history, anthropology, economics, sociology, and politics of the particular location/area. Particular focus will vary with location but attention is given to contemporary public issues and institutions such as education, health, economic development.

INTL A305 Canadian Far West 3 CR
 Contact Hours: 3 + 0
 Special Fees.

An interdisciplinary exploration of the Canadian far West which examines its geography, peoples, history, politics, and economics, in order to understand the contemporary society and culture. Provides the basis for analyzing the relationship of the Canadian Far West to other countries in the North Pacific. Team taught by faculty from several disciplines.

INTL A335 North East Asia-Pacific 3 CR
 Contact Hours: 3 + 0
 Special Fees.

An interdisciplinary examination and analysis of the North East Asia-Pacific region, covering China, Korea, and Japan, designed to provide students with the means to understand how societies in this region developed differently despite their common cultural and philosophic roots. Approach will be thematic rather than chronological, covering history, politics, art, literature, culture, and economics of an area that will be increasingly important in the 21st century. This is a team-taught course.

INTL A345 Across This Land: The Historical Geography of North America 3 CR

Contact Hours: 3 + 0
 Prerequisites: HIST A131

Crosslisted with: GEOG/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.

INTL A355 Russian Far East 3 CR
 Contact Hours: 3 + 0
 Special Fees.

An interdisciplinary examination and analysis of the Russian Far East, including geography, peoples, history, cultures, politics, and economics as they relate to questions of identities, cultural myths, and power dynamics. This course is team-taught by faculty members from a number of disciplines.

INTL A374 History of Canada to 1867 3 CR
 Contact Hours: 3 + 0
 Crosslisted with: HIST A374.

A survey of major developments in the history of Canada to 1867.

INTL A492 North Pacific Studies Seminar 3 CR
 Contact Hours: 3 + 0
 Prerequisites: INTL A305 and INTL A335 and INTL A355.
 Special Fees.

A searching and integrative examination of the North Pacific region from an international perspective. Seminar focusing on different issues at each offering, but always requiring a comprehensive regional synthesis.

INTL A603 Canada: Selected Topics 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: Graduate Standing.
 Stacked with: INTL A303.
 Special Fees.

Special Note: May be repeated for credit a maximum of four times with a change of subtitle.

Advanced study of different aspects of Canadian life. Topics include Canadian anthropology and Native peoples, art, economics and resources, history, literature, politics, Quebec and the French fact in Canada, sociology and theatre.

ITALIAN - ITAL

Offered through the College of Arts and Sciences

Administration/Humanities Building (ADM) Suite 287, 786-4030

<http://language.uaa.alaska.edu/>

ITAL A101 Elementary Italian I 4 CR

Contact Hours: 4 + 0

Course Attributes: UAA GER Humanities Requirement.

Special Fees.

Special Note: Offered alternate Fall semesters if demand warrants.

Introduction to Italian for beginners. Focus on oral communication, emphasizing listening comprehension, pronunciation, and everyday vocabulary. Introduction to basic grammatical and sentence structures, reading and writing, and Italian culture.

ITAL A102 Elementary Italian II 4 CR

Contact Hours: 4 + 0

Prerequisites: ITAL A101.

Course Attributes: UAA GER Humanities Requirement.

Special Fees.

Special Note: Offered alternate Spring semesters if demand warrants.

Builds upon the skills in Listening in language comprehension and use acquired in Italian I. Provides a more in-depth study of Italian grammar and appropriate and creative use of the language. Increases speaking, reading, and writing skills and deepens understanding of contemporary Italian culture through reading, discussion, and audio-visual means.

JOURNALISM & PUBLIC COMMUNICATIONS - JPC

Offered through the College of Arts and Sciences

Professional Studies Building (PSB), Room 203, 786-4180

<http://jpc.uaa.alaska.edu/>

JPC A101 Introduction to Mass Communication 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Social Sciences Requirement.

A survey of the media of mass communication and their functions in modern society: newspapers, magazines, books, movies, radio, television, and the advertising and public relations industries.

JPC A105 Writing for Publications 3 CR

Contact Hours: 3 + 0

Introduction to journalistic writing for publications such as campus newspapers. Writing and editing features, news stories, and editorials. Additional topics may include advertising, copywriting and taking photos for publications. For non JPC majors and minors.

JPC A111 Understanding Aural and Visual Communications 3 CR

Contact Hours: 3 + 0

Prerequisites: JPC A101.

Aural and visual literacy and appreciation. The course studies how sounds and images are used to inform, entertain, persuade and transmit culture. Radio, film and television programs are analyzed: how they are made, their processes and how they effect individuals and society.

JPC A201 Writing for the Media 3 CR

Contact Hours: 2 + 3

Prerequisites: JPC A101 and [ENGL A211 or ENGL A212 or ENGL A213 or ENGL A311].

Registration Restrictions: Keyboarding ability.

Basic writing structures in a variety of media, including print, broadcast (radio and television), public relations and advertising. Basic skills are taught in information gathering, evaluation, and writing for delivery to a mass audience.

JPC A212 Editing 3 CR

Contact Hours: 2 + 3

Prerequisites: JPC A201.

Editing copy and graphics and preparing them for publication. Students edit copy, write headlines and captions, crop and size pictures and are introduced to newspaper and magazine design. Ethical and legal concerns in editing also are addressed.

JPC A215 History of Mass Communication 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Humanities Requirement.

Development of the print, film, and broadcast communication media from their beginnings to the present, and their roles as institutions in American society.

JPC A224 Beginning Photography 3 CR

Contact Hours: 0 + 6

Crosslisted with: ART A224.

Special Fees.

Basic principles including camera functions and the utilization of these functions for artistic expression through the processing and printing of black and white film.

JPC A300 Photojournalism 3 CR

Contact Hours: 2 + 3

Prerequisites: JPC A111 and JPC A201 and [JPC A224 or ART A224].

Special Fees.

Creating effective photos and photo essays for newspapers, magazines, and television. Learning to recognize, develop and create photo stories; how to coordinate words and photos and to lay them out on a page. Photo editing. How to present material to potential markets.

JPC A301 Advanced Newswriting 3 CR

Contact Hours: 2 + 3

Prerequisites: JPC A201.

Advanced news gathering and writing techniques covering a wide scope of subjects. Emphasis is on reporting in the community under conditions approximating those of a newsroom.

JPC A305 Journalistic Interviewing 3 CR

Contact Hours: 3 + 0

Prerequisites: JPC A101.

The art and craft of interviewing, with emphasis on journalistic interview. Students study and practice various styles of interviews with individuals and groups and learn specific human-interaction techniques necessary for conducting quality interviews that elicit useful information for journalistic purposes.

JPC A309 Radio News 3 CR

Contact Hours: 3 + 0

Prerequisites: JPC A101 and JPC A111 and JPC A201.

Developing news and public affairs programming for commercial and public radio formats. Emphasis will be on journalistic reporting and understanding the special qualities and requirements of the medium. Produce professional-quality stories for an aural audience.

JPC A310 Audio Production 3 CR

Contact Hours: 2 + 3

Prerequisites: JPC A111.

Techniques of sound production. Survey of the history and formats of radio. Audio production techniques are introduced for radio, television, film, and sound/slide presentations. Students produce documentary, dramatic or commercial studio projects.

JPC A311 Magazine Writing 3 CR

Contact Hours: 3 + 0

Prerequisites: JPC A301.

Article writing for publication in magazines, preparation of query letters, market analysis, and manuscript writing. Includes discussion of ethical and legal issues of special concern in magazine writing.

JPC A316 Producing for Film and Television 3 CR

Contact Hours: 2 + 3

Prerequisites: JPC A111.

Principles and techniques of video and film production; concepts, script, production planning, camera, audio, lighting, and editing. Teaches basic principles common to film and television production through the use of portable color video camera and video tape editing systems.

JPC A320 Principles of Public Relations 3 CR

Contact Hours: 3 + 0

Prerequisites: JPC A101.

Function of public relations and its role in society. Principles, history, and practice of public relations in business and industry, public or governmental institutions, social welfare organizations. Process of influencing and public opinion. Responsibilities of the public relations practitioner to their principles, media, and public.

JPC A323 Color Photography 3 CR

Contact Hours: 0 + 6

Prerequisites: JPC A224 or ART A224.

Crosslisted with: ART A323.

Special Fees.

Special Note: May be repeated for credit.

Advanced techniques in color transparencies, color negatives, and color printing.

JPC A324 Intermediate Photography 3 CR

Contact Hours: 0 + 6

Prerequisites: JPC A224 or ART A224.

Crosslisted with: ART A324.

Special Fees.

Further development of photographic skills. Includes photographic perception of awareness, ideas and concepts, and the "Fine print."

JPC A326 Contact Hours: 3 + 0 Prerequisites: JPC A101. Theory and practice of advertising; including strategy, media use, creation and production of advertisements and measurement of advertising effectiveness.	Principles of Advertising	3 CR
JPC A328 Contact Hours: 3 + 0 Prerequisites: JPC A329 and JPC A326. Special Fees. Planning and execution of advertising campaign, marketing and consumer research, organization and function of advertising agencies, selection of media, etc.	Advertising Campaign	3 CR
JPC A329 Contact Hours: 2 + 3 Prerequisites: JPC A212. Special Note: Students provide specified graphics art tools. Understanding of design principles, graphics, typography and layout for various types of publications, and study of print production methods. Practice is combined with theory.	Graphics and Publication Design	3 CR
JPC A330 Contact Hours: 3 + 0 Prerequisites: JPC A212 and JPC A320 and JPC A329. Use of controlled and uncontrolled (public) media to achieve motivation of target audiences; case studies and typical problems, planning and preparation of communication materials; and application of public relations concepts and techniques.	Advanced Public Relations	3 CR
JPC A331 Contact Hours: 0 + 6 Prerequisites: JPC A324 or ART A324. Crosslisted with: ART A331. Special Fees. Special Note: May be repeated for credit. Exploration of various special effects and techniques. Emphasizes creativity using various photographic processes.	Experimental Photography	3 CR
JPC A340 Contact Hours: 2 + 2 Prerequisites: JPC A329. Registration Restrictions: Basic familiarity with Word Processing on PC. Creating graphics, formatting text and organizing files for World Wide Web sites. Students are introduced to the issues and techniques involved in creating Web sites for media organizations and businesses. Students create complex Web sites. Internet marketing and issues such as privacy and copyright also are addressed.	Web Design	3 CR
JPC A341 Contact Hours: 2 + 3 Prerequisites: JPC A201 and JPC A310 and JPC A316. Focus on all phases of broadcast news from laboratory practice in gathering and editing to contemporary trends and issues in broadcast journalism. Laboratory experience involves tapes and films; all work done against absolute deadlines.	Broadcast Journalism Production	3 CR
JPC A350 Contact Hours: 2 + 3 Prerequisites: JPC A316. Film and video authorship; individual projects. Emphasizes the role of director as author, and stresses advanced techniques in dramatic or documentary student projects.	Directing for Film and Television	3 CR
JPC A355 Contact Hours: 2 + 2 Prerequisites: JPC A101 and JPC A201 and JPC A320. Written purposive communication as it is applied in the public relations profession with emphasis on research, critical application of ethical principles, adaptation to audiences and reinforcement of individual writing styles.	Writing for Public Relations	3 CR
JPC A364 Contact Hours: 3 + 0 Prerequisites: JPC A201 and JPC A326. Principles of advertising management including planning, scheduling and client relations. Emphasis on techniques for creative strategy and media strategy.	Advertising Strategy	3 CR
JPC A365 Contact Hours: 3 + 0 Prerequisites: JPC A201 and JPC A326. Principles of the creative process used in advertising. Uses theory as basis for development and application of creative skills at the professional level in the creation of individual advertisements and campaigns.	Advertising Creativity	3 CR

JPC A367 Contact Hours: 3 + 0 Crosslisted with: ART A367. Course Attributes: UAA GER Fine Arts Requirement. UAA GER Humanities Requirement. Special Fees. Evolution of photography; 1816 to the present. Surveys style, approach, content and form of the major trends in Europe and America.	History of Photography	3 CR
JPC A400 Contact Hours: 1-2 + 0-6 Special Note: Variable credits determined by faculty. Only 3 credits for one internship or practicum may be taken as a part of the 36 credits for the major. Combines practical application of theories, concepts, and practices with classroom instruction. Production experience may be in areas of journalism, telecommunications, public relations, advertising, or photography.	Practicum	1-3 CR
JPC A401 Contact Hours: 3 + 0 Prerequisites: JPC A301 or JPC A311. Special Note: May be repeated once for credit. Production of annual, general interest magazine. Includes discussion of story idea generation, magazine thematic development, research techniques for a variety of selected fields, writing, editing, graphic design, marketing, and distribution techniques for published materials.	Magazine Production	3 CR
JPC A413 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.	Communications Law	3 CR
JPC A416 Contact Hours: 3 + 0 The social effects of new communications media. Includes examination of technologies that affect media organizations and ones that are making new media possible. Also the telecommunications policy process and the implications for society of pursuing different policy alternatives.	Information Age Communication	3 CR
JPC A424 Contact Hours: 0 + 6 Prerequisites: JPC A324 or ART A324. Crosslisted with: ART A424. Special Fees. Special Note: May be repeated for credit. Development of images that reflect individual expression. Provides for individual portfolio development.	Advanced Photography	3 CR
JPC A435 Contact Hours: 3 + 0 Prerequisites: AS A252. Introduction to research in mass communication, including historical development and impact, research design, data collection and analysis. Projects will provide practice in using research in such areas as precision journalism, media management, public relations planning and evaluation, and advertising campaigns.	Communication Research	3 CR
JPC A440 Contact Hours: 3 + 0 A comprehensive study of how effectively the press (print and electronic) responds today to its obligations in the varied and demanding society it is duty bound to serve.	The Press: Issues and Answers	3 CR
JPC A450 Contact Hours: 0 + 9 Registration Restrictions: JPC majors with junior or senior standing, and faculty permission. Special Note: Only 3 credits for one internship or practicum may be taken as a part of the 36 credits for the major. Professional work experience in appropriate areas of journalism.	Internship in Journalism	3 CR
JPC A451 Contact Hours: 0 + 9 Registration Restrictions: JPC majors with junior or senior standing, and faculty permission. Special Note: Only 3 credits for one internship or practicum may be taken as part of the 36 credits for the major. Professional work experience in appropriate areas of public relations or advertising.	Internship in Public Relations or Advertising	3 CR
JPC A452 Contact Hours: 0 + 9 Registration Restrictions: JPC majors with junior or senior standing, and faculty permission. Special Note: Only 3 credits for one internship or practicum may be taken as part of the 36 credits for the major. Professional work experience in appropriate areas of telecommunication.	Internship in Telecommunications	3 CR

JPC A453 Internship in Photography 3 CR
 Contact Hours: 0 + 9
 Registration Restrictions: JPC majors with junior or senior standing, and faculty permission.
 Special Note: Only 3 credits for one internship or practicum may be taken as part of the 36 credits for the major.
 Professional work experience in appropriate areas of photography.

JPC A490 Selected Topics in Communication 1-3 CR
 Contact Hours: 1-3 + 0
 Special Note: May be repeated for credit with a change of subtitle. A maximum of 3 credits may be applied to the 36 credit requirement for the major.
 Focus on current topics related to a specific area of communication.

JPC A601 Methods for Teaching Journalism 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: Graduate Standing and admission to the Master of Arts in Teaching Secondary Education Program.
 Corequisite: ED A681, ED A687 and EDSE A671.
 Approaches to teaching journalism, mass communication, and media literacy in the secondary classroom, including evaluation, lesson planning, curriculum design, and classroom methods.

JAPANESE - JPN

*Offered through the College of Arts and Sciences
 Administration/Humanities Building (ADM) Suite 287, 786-4030
<http://language.uaa.alaska.edu/>*

JPN A100A Introduction to Japanese Language and Culture I 3 CR
 Contact Hours: 3 + 0
 Special Fees.
 A general survey course focusing on the rudiments of Japanese phonetic writing, "Hiragana", some basic grammar, useful words and phrases, and various aspects of Japanese culture. Designed primarily for people who intend to travel to Japan or host Japanese visitors and who want to be able to exchange some simple information. Emphasis is on conversation.

JPN A100B Introduction to Japanese Language and Culture II 3 CR
 Contact Hours: 3 + 0
 Prerequisites: JPN A100A.
 Special Fees.
 Continuation of Japanese A100A. A general survey course focusing on pronunciation practice, intonation, Hiragana reading, elementary grammar, useful words, phrases, idioms, and sentence patterns along with various aspects of Japanese culture. Intended for travelers or hosts to Japanese visitors. Emphasis is on conversation.

JPN A101 Elementary Japanese I 4 CR
 Contact Hours: 4 + 0
 Course Attributes: UAA GER Humanities Requirement.
 Special Fees.
 Introduction, practice, and application of the basic spoken Japanese pronunciation, intonation, grammar and oral composition.

JPN A101E Elementary Japanese I 3 CR
 Contact Hours: 3 + 0
 Course Attributes: UAA GER Humanities Requirement.
 Offered only at extended colleges.
 Introduction, practice, and application of the basic spoken Japanese pronunciation, intonation, grammar and oral composition.

JPN A102 Elementary Japanese II 4 CR
 Contact Hours: 4 + 0
 Prerequisites: JPN A101.
 Course Attributes: UAA GER Humanities Requirement.
 Special Fees.
 Continued drill in speaking, listening, reading and writing in different situations. Emphasis on developing practical skills in oral and written "Hiragana" communication.

JPN A102E Elementary Japanese II 3 CR
 Contact Hours: 3 + 0
 Prerequisites: JPN A101E.
 Course Attributes: UAA GER Humanities Requirement.
 Offered only at extended colleges.
 Continued drill in speaking, listening, reading and writing in different situations. Emphasis on developing practical skills in oral and written "Hiragana" communication.

JPN A105 Conversational Skills I 1 CR
 Contact Hours: 0 + 2
 Registration Restrictions: Proficiency as after one semester of college level or one year of high school level Japanese.
 Grade Mode: Pass/No Pass.
 Stacked with: JPN A205.
 Special Fees.
 Special Note: May be repeated once for credit.
 Focuses on oral communication, emphasizing speaking, listening comprehension, and vocabulary building. Skills enhancement course at the elementary level.

JPN A201 Intermediate Japanese I 4 CR
 Contact Hours: 4 + 0
 Prerequisites: JPN A102.
 Course Attributes: UAA GER Humanities Requirement.
 Special Fees.
 Continuing study of basic grammar and practice in speaking, listening, reading, and writing. More Kanji, vocabulary, and expressions are to be studied. Students will move toward a higher level of all skills of language comprehension, production, and cultural understanding. Continued efforts to develop oral and written fluency in formal and informal situations.

JPN A202 Intermediate Japanese II 4 CR
 Contact Hours: 4 + 0
 Prerequisites: JPN A201.
 Course Attributes: UAA GER Humanities Requirement.
 Special Fees.
 Completion and reinforcement of the fundamentals of the Japanese language introduced in the introductory level. Develops the functional ability to communicate in Japanese beyond survival level. More Kanji, vocabulary, and expressions are introduced. Continued efforts to develop oral and written proficiency in informal and formal situations.

JPN 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 level Japanese.
 Grade Mode: Pass/No Pass.
 Stacked with: JPN A105.
 Special Fees.
 Special Note: May be repeated once for credit.
 Focuses on oral communication, emphasizing speaking, listening comprehension, and vocabulary building. Skills enhancement course at the intermediate level.

JPN A290 Selected Topics in Japanese Culture 1 CR
 Contact Hours: 0 + 2
 Prerequisites: JPN A101.
 Special Fees.
 Special Note: May be repeated twice for credit, but not more than one credit can be applied to Language major.
 Topics in Japanese culture such as Shodo (calligraphy), Zen Meditation, Ikebana (flower arrangement), and Chado/Sado (tea ceremony). Gives students opportunities to learn Japanese culture first hand.

JPN A301 Advanced Japanese I 4 CR
 Contact Hours: 4 + 0
 Prerequisites: JPN A202.
 Special Fees.
 Reinforcement of the fundamentals of the Japanese language introduced in the introductory and intermediate level. Develops the functional ability to communicate in Japanese beyond the survival level. More Kanji, vocabulary, and expressions are introduced. Continued efforts to develop oral and written fluency in informal and formal situations.

JPN A302 Advanced Japanese II 4 CR
 Contact Hours: 4 + 0
 Prerequisites: JPN A301.
 Special Fees.
 Further reinforcement of the fundamentals of the Japanese language introduced in the introductory and intermediate level. Develops the functional ability to communicate in Japanese beyond the survival level. More Kanji, vocabulary, and expressions are introduced. Continued efforts to develop oral and written fluency in informal formal situations. Reading of contemporary texts of literature, business, special topics.

JPN A310 **Selected Topics in Advanced Japanese** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JPN A202.
 Special Fees.
 Special Note: May be repeated for credit.

An advanced course for students interested in improving their communicative skills in spoken and written Japanese and in deepening their understanding of the Japanese people and culture. Each time the course is offered, different but closely related topics such as history and geography, politics and economy, education and technology, performing arts and films, traditions and modern trends, will be selected and emphasized.

JPN A350 **Business Japanese** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JPN A202.
 Special Fees.
 Special Note: Class will be conducted in Japanese and English.

Focuses on working knowledge of Japanese business and financial terminology, Japanese business culture, and business practices. Study of business correspondence, terms and jargon, negotiations, and other topics useful in the Japanese business environment.

JUSTICE - JUST

*Offered through the College of Health & Social Welfare
 Social Sciences Building (SSB), Room 306, 786-1810
<http://justice.uaa.alaska.edu/>*

JUST A110 **Introduction to Justice** **3 CR**
 Contact Hours: 3 + 0
 Course Attributes: UAA GER Social Sciences Requirement.
 Special Note: This course is a prerequisite to most Justice courses. Offered Fall and Spring Semesters.

Survey of philosophies, functions and methods of social control with emphasis on role of law and those involved in its administration—police, courts, and correction organizations. Includes study of history, organization, processes, and problems related to law and justice agencies in a heterogeneous, democratic society.

JUST A200 **Introduction to Research Methods** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JUST A110.

Introduces social science research methods used in Justice studies, including explication of the scientific method, experimental and quasi-experimental designs, sampling, data collection methods, and analytical strategies. Students will participate in exercises that develop their capacity to critically evaluate research designs routinely employed in Justice research and program evaluations.

JUST A201 **Justice Data Analysis** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JUST A110.

Introduces basic descriptive statistics and data presentation strategies. Covers measures of central tendency, variation, and strength of association. Data presentation will focus on production and interpretation of tables, graphs, and maps.

JUST A203 **Juvenile Delinquency** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: SOC A101.
 Crosslisted with: SOC A203.

A conceptual approach to deviant and delinquent behavior, contributing social problems, adolescence as a subculture with emphasis on the juvenile code and treatment procedure.

JUST A210 **Principles of Corrections** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JUST A110 or JUST A251.

An introduction to the basic concepts of probation and parole; the use of authority in corrective services; institutional methods; a study of popular and professional concepts in corrections.

JUST A221 **Justice Organization and Management** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JUST A110.
 Special Note: Offered Fall and Spring Semesters.

Survey of organization and management of police, court, correctional and legal operations, agency roles, goals, structural arrangements and administrative practices; applicability of theory and research; techniques and instruments of organization and management; and principles of change.

JUST A241 **Business Law I** **3 CR**
 Contact Hours: 3 + 0
 Crosslisted with: BA A241.

Introduces legal aspects of business activities. Emphasizes basic principles, institutions, and administration of law in contracts, employment, torts, property, agency, real estate, and insurance.

JUST A242 **Business Law II** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JUST A241 or BA A241.
 Crosslisted with: BA A242.

Emphasizes basic principles, institutions, and administration of law in suretyships, partnerships, corporations, trusts, bankruptcy, negotiable instruments and sale of goods.

JUST A250 **Development of Law** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JUST A110.
 Special Note: Offered Fall and Spring Semesters.

Study of underlying philosophy, development and structure of law with emphasis on the law system of the U.S. and Alaska. Includes 'civil' precedents of such constitutional provisions as 'due process' and 'equal protection' in the U.S. Bill of Rights; criticisms of law; review of Native law ways; and procedures for changing law.

JUST A251 **Criminology** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JUST A110.
 Special Note: Offered Fall and Spring Semesters.

The study of deviant behavior and theories of crime causation and their relationship to society, law and law enforcement.

JUST A255 **Criminal Investigation** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JUST A110.

Fundamentals of investigation. Crime scene search and recording, collection and preservation of physical evidence, and scientific aids. Modus operandi, sources of information, interviews and interrogations, follow-up, and case preparation.

JUST A320 **Crime Prevention** **3 CR**
 Contact Hours: 3 + 0

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.

JUST A330 **Justice and Society** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JUST A110.
 Course Attributes: UAA GER Social Sciences Requirement.
 Special Note: Offered Fall and Spring Semesters.

The evolutionary influence of ideology, technology and social interests on the justice system. The dynamic impact of long-term emerging concepts such as 'equality' and 'privacy' will be viewed against the background of requirements of political and economic organization.

JUST A340 **Family Law** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JUST A110 or PARL A101.
 Crosslisted with: PARL A340.

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.

JUST A343 **Constitutional Law** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JUST A110 or PS A101.
 Crosslisted with: PS A343.

An introduction to American constitutional law through a 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.

JUST A344 **Courts and Civil Liberties** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JUST A343 or PS A343.

Intensive study of the development of political and civil rights with particular emphasis on the period since 1937. Focuses on cases and literature of the Supreme Court and considers various influences on judicial decision making.

JUST A350 **Contemporary Correctional Issues** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JUST A110.
 Special Note: Attendance on field trips is required.

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.

JUST A352 Substantive Criminal Law 3 CR
 Contact Hours: 3 + 0
 Prerequisites: JUST A110 or PARL A101.
 Crosslisted with: PARL A352.
 Special Note: Offered Fall Semesters.
 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.

JUST A354 Criminal Procedure 3 CR
 Contact Hours: 3 + 0
 Prerequisites: JUST A110 or PARL A101.
 Crosslisted with: PARL A354.
 Special Note: Offered Spring Semesters.
 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.

JUST A360 Justice Processes 3 CR
 Contact Hours: 3 + 0
 Prerequisites: JUST A110.
 Special Note: Offered Fall and Spring Semesters.
 Study of processes and issues in police, court and correctional agency operations. Definition of goals; organizational design and development, organizing and managing financial, personnel and management processes; budget, union, communication, record; community-based programs; inspection, and program assessment. Contemporary administrative process problems.

JUST A365 Comparative Justice Systems 3 CR
 Contact Hours: 3 + 0
 Justice systems are examined on a global basis, in contrast with American justice systems, as a basis for a comparative approach to present-day national and international problems in crime and the administration of justice. Varying approaches—continental, Anglo-American and eastern—to policing, corrections, legal systems and social order are reviewed and evaluated.

JUST A370 Judicial Policy and Court Administration 3 CR
 Contact Hours: 3 + 0
 Prerequisites: JUST A110 and JUST A221.
 A review of the Alaska court system, its problems, management, policies and procedures. Analysis of issues related to court operations and policies and alternatives to the current situation.

JUST A380 Social Service Law 3 CR
 Contact Hours: 3 + 0
 Prerequisites: JUST A110 or PARL A101.
 Crosslisted with: SWK A380.
 Principal legal problems encountered by service professionals in fields such as health, employment, welfare and social work, with special emphasis on professional liabilities and poverty law.

JUST A385 Urban Police Problems 3 CR
 Contact Hours: 3 + 0
 Prerequisites: JUST A110.
 Exploration 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 A398 Individual Research 1-4 CR
 Contact Hours: 1-4 + 3-12
 Registration Restrictions: Junior standing, 6 credits writing courses, faculty permission.
 Participation in Justice Center research projects or use of Center data bases. Students learn to formulate hypotheses, collect and enter data, and perform computer analyses. Students will review the literature on similar projects and submit a final research paper.

JUST A400 Advanced Research Methods 3 CR
 Contact Hours: 3 + 0
 Prerequisites: JUST A200 and JUST A201.
 Advanced social science research methods, focusing on specific sampling and data collection strategies, i.e., focus group, telephone survey, cluster vs. stratified sampling, etc. Evaluates the potential use of official statistics such as police and census data. Students will be expected to select appropriate samples and create appropriate data collection instruments and protocols.

JUST A401 Inferential Data Analysis in Justice 3 CR
 Contact Hours: 3 + 0
 Prerequisites: JUST A200 and JUST A201.
 Special Note: Recommend completion of GER Quantitative Skills requirement.
 Advanced social science research focusing on inferential data analysis. Provides an in-depth understanding of the logic and application of inferential techniques, particularly of multivariate models. Students will formulate and implement an analysis plan with real criminal justice data.

JUST A410 Cinematic Images of Justice 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: Junior standing.
 Visual survey of how the cinema has portrayed the criminal justice system. Special attention devoted to discrepancies between scientific research findings and popular stereotypes portrayed by media. Attention given to each component of the justice system. Impact of fictionalized events and justice system action/reaction will be juxtaposed with the reality of the justice system. Concepts such as equality, privacy, police brutality, gangs, and prison life will be viewed against the background of political economics and legal reality.

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 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 AS 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 A454 Evaluation Research and Change 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: Social science methods course.
 Crosslisted with: SOC A454.
 Application of evaluation research to policy-making process. Presents evaluative research strategies including monitoring, process evaluation, cost-benefit analysis and impact evaluation. Special attention given to designing evaluation projects, analyzing and interpreting results, preparing and presenting evaluation research reports in justice, human and community service fields.

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 A456 Anthropology and the Law 3 CR
 Contact Hours: 3 + 0
 Crosslisted with: ANTH A456.
 Special Note: Offered as Demand Warrants.
 This course will study variations cross-culturally in forms of social control of law, including traditional Alaska Native forms. Moving beyond the purely theoretical concerns of law cross-culturally, this course will investigate legal service delivery problems in cross-cultural settings, drawing upon both anthropological knowledge and jurisprudence in cross-cultural settings. Ways for improving legal service delivery systems will be examined.

JUST A462	Indian Law and the Settlement Act	3 CR
Contact Hours: 3 + 0 Prerequisites: JUST A110 and JUST A250. A study of the legal history and current legal status of Alaska Native people. Attention will be given to the social, cultural and legal history of American Natives in general and Alaska Natives in particular; the U.S. Policies concerning Natives and their rights, law of corporations and the corporate structure of the Settlement Act, and legal rights, money control, and land management under Alaska Native Claims Settlement Act.		
JUST A465	Legislation	3 CR
Contact Hours: 3 + 0 Relationship of ordering words and procedural language to policy objectives. Drafting and interpretation of rules, regulations, and ordinances. Legal system design.		
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 A451. 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	1-3 CR
Contact Hours: 1-3 + 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 A491	Natural Resources Law	3 CR
Contact Hours: 3 + 0 An introduction to the law of land and resource development, with special emphasis on land and water use regulation and public land issues.		
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 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.		
JUST A690	Selected Topics in Criminal Justice	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate Standing. Selected issues in criminal justice.		
JUST A699	Thesis	1 CR
Contact Hours: 1 + 0 The application of research skills to the study of a problem in the justice field. Involves field research and related independent study.		

KOREAN - KOR

*Offered through the College of Arts and Sciences
Administration/Humanities Building (ADM), Suite 287, 786-4030
<http://language.uaa.alaska.edu/>*

KOR A101	Elementary Korean I	4 CR
Contact Hours: 4 + 0 Course Attributes: UAA GER Humanities Requirement. Special Fees. Introduces Korean in the conversational mode, with exposure to grammatical structure, reading, writing and some culture.		
KOR A102	Elementary Korean II	4 CR
Contact Hours: 4 + 0 Prerequisites: KOR A101. Course Attributes: UAA GER Humanities Requirement. Special Fees. Continuation of KOR A101. Emphasizes conversational mode, with exposure to grammatical structure, reading, writing and some culture.		

LANGUAGES - LANG

*Offered through the College of Arts and Sciences
Administration/Humanities Building (ADM), Suite 287, 786-4030
<http://language.uaa.alaska.edu/>*

LANG A400	Literature in Translation	3 CR
Contact Hours: 3 + 0 Special Note: May be repeated for credit with a change of subtitle. See schedule for specific offerings. Selected readings in translation of works in a language other than English. May be a survey of a national literature, a genre course or be limited to one author or a group of authors. Students who speak the language of the original works may read them in the original but lectures and class discussion will be conducted in English.		
LANG A410	Translation Theory and Practice	3 CR
Contact Hours: 3 + 0 Prerequisites: [FREN A302 or FREN A310] or [GER A302 or GER A310] or [JPN A302 or JPN A310] or [RUSS A302 or RUSS A310] or [SPAN A302 or SPAN A310]. Registration Restrictions: Prerequisite or equivalent proficiency in another language. Introduces students to various theories and practices of translation in the historical context and as art, craft, or science. Formulates the criteria of a reliable or good translation and provides practice in judging translation quality and reliability as well as in translating from and into the student's second language.		
LANG A667A	Middle/High School Second-Language Teaching I	4 CR
Contact Hours: 4 + 0 Prerequisites: ED A424. Registration Restrictions: Admission to the Master of Arts in Teaching Program. Corequisite: ED A695A. Provides standards-based curriculum planning and assessment for the diverse student population in second-language classrooms in the middle/high school. Includes an overview of language acquisition theories and instructional strategies typically used in the World Languages curriculum. Integrates technology, literacy, and education for special populations.		

LANG A667B Middle/High School Second-Language Teaching II 2 CR
 Contact Hours: 2 + 0
 Prerequisites: LANG A667A.
 Registration Restrictions: Admission to the Master of Arts in Teaching Program.
 Corequisite: ED A695B.
 Special Note: Concurrent enrollment in internship is required.
 Provides standards-based development of professional teaching practices for middle/high school. Specific emphasis on development of thematic units.

LANG A667C Middle/High School Methods for Teaching English as a Second Language 2 CR
 Contact Hours: 2 + 0
 Prerequisites: LANG A667A.
 Registration Restrictions: Admission to the Master of Arts in Teaching Program.
 Corequisite: ED A695B.
 Special Note: Concurrent enrollment in internship is required.
 Provides students with the opportunity to develop pedagogical content knowledge and understanding of human development and learning with both general principles of instruction and content-specific strategies. Includes content areas typically taught in secondary ESL/Bilingual curriculum. Integrates technology, health enhancement, literacy, and education for special populations.

LANG A691 Current Topics in Second Language Education 1-3 CR
 Contact Hours: 1-3 + 0
 Registration Restrictions: Basic fluency in a second language desirable and graduate standing.
 Crosslisted with: ED A691.
 Special Fees.
 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.

LATIN - LAT

Offered through the College of Arts and Sciences Administration/Humanities Building (ADM), Suite 287, 786-4030
<http://language.uaa.alaska.edu/>

LAT A101 Elementary Latin I 3 CR
 Contact Hours: 3 + 0
 Course Attributes: UAA GER Humanities Requirement.
 Special Fees.
 Introduction to language covering grammar, syntax, vocabulary and pronunciation.

LAT A102 Elementary Latin II 3 CR
 Contact Hours: 3 + 0
 Prerequisites: LAT A101.
 Course Attributes: UAA GER Humanities Requirement.
 Special Fees.
 Continued development of grammar, syntax, and vocabulary; increasing emphasis on reading selected texts.

LOGISTICS OPERATIONS - LGOP

Offered through the Community and Technical College University Center (UC) 130, 786-6423
<http://lgop.uaa.alaska.edu/>

LGOP A110 Logistics Information Systems and Customer Service 3 CR
 Contact Hours: 3 + 0
 Introduces the principles and concepts of logistics functions covering total product flow from the inbound raw materials to the outbound finished goods. Emphasizes the total logistics system design and development process. Addresses functions and activities required for managing and providing training services for industry.

LGOP A120 Warehouse and Inventory Control Operations 3 CR
 Contact Hours: 3 + 0
 Introduces fundamentals of warehouse and inventory control operational practices, as well as supply functions.

LGOP A160 Purchasing and Supply Management 3 CR
 Contact Hours: 3 + 0
 Introduces principles and methods relating to purchasing, inventory management, supplier management, and materials management from the inbound raw materials to the outbound finished goods.

LGOP A225 Transportation Services 3 CR
 Contact Hours: 3 + 0
 Prerequisites: LGOP A110.
 Presents commercial motor operations, highway financing, motor carriers, labor relations, terminal operations, and economics of commercial motor transportation.

LGOP A235 Rates, Tariffs, and Carrier Liability 3 CR
 Contact Hours: 3 + 0
 Presents tariff compilation, freight rates and tariff special freight services, along with the technical tariff and rate interpretation. Addresses carrier liability for goods as well as the rights and liabilities of carriers, consignees, and consignors.

LINGUISTICS - LING

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.
 Special Note: Offered Fall and Spring Semesters.

A beginning course in the study of language. Introduction to systematic analysis of human language and description of its grammatical structure, distribution, and diversity.

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.

LOGISTICS - LOG

Offered through the College of Business & Public Policy Business Education Building (BEB), Room 309, 786-4100
www.cbpp.uaa.alaska.edu

Students taking any ACCT, BA, CIS, ECON, LOG, or PADM course will be charged a single lab fee of \$25 for the semester. This fee applies to Elmendorf AFB or Fort Richardson classes only when specifically annotated. Does not apply to Eagle River.

LOG A290 Selected Topics in Logistics 1-3 CR
 Contact Hours: 1-3 + 0
 Explores topics relating to current issues in logistics and supply chain management. Focuses on evaluating the decision tools used in the development, enhancement, and management of logistics and supply chain management systems both in domestic and international settings.

LOG A378 Management of Global Logistics Supply Chains 3 CR
 Contact Hours: 3 + 0
 Prerequisites: (BA A377 or concurrent enrollment).
 Registration Restrictions: College of Business and Public Policy majors must be admitted to upper-division standing.
 Introduction to logistics supply chain concepts, structures, design, and management. Logistics supply chain processes, costs, and decisions.

LOG A379 Transportation Management 3 CR
 Contact Hours: 3 + 0
 Prerequisites: LOG A378.
 Registration Restrictions: College of Business and Public Policy majors must be admitted to upper-division standing.
 Structure and operating characteristics of the transportation sector. Transportation carrier modes. Procurement and use of transportation services.

LOG A415 Purchasing Management 3 CR
 Contact Hours: 3 + 0
 Prerequisites: LOG A378 and LOG A379.
 Registration Restrictions: College of Business and Public Policy majors must be admitted to upper-division standing.
 Purchasing activities and cost management techniques. Acquisition of materials, products, and services.

LOG A416 International Logistics and Transportation Management 3 CR
 Contact Hours: 3 + 0
 Prerequisites: LOG A378 and LOG A379.
 Registration Restrictions: College of Business and Public Policy majors must be admitted to the upper-division standing.
 Logistics activities of international firms. Global sourcing, manufacturing, marketing, and transportation. Currency and payment issues, documentation, and the role of government.

LOG A417 Materials Management 3 CR

Contact Hours: 3 + 0

Prerequisites: LOG A378 and LOG A379.

Registration Restrictions: College of Business and Public Policy majors must be admitted to the upper-division standing.

Warehouse location, design, and operations. Managing material flows. Packing issues.

LOG A495 Internship in Global Logistics Management 3 CR

Contact Hours: 0 + 9

Prerequisites: LOG A378 with minimum grade of B and LOG A379 with minimum grade of B.

Grade Mode: Pass/No Pass.

Special Fees.

Work experience in an approved position with supervision and training in various phases of a global logistics business organization. Subject to availability of position openings.

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.

LIBRARY SCIENCE - LS*Offered through the College of Arts and Sciences**Consortium Library Reference Desk, 786-1848**http://www.lib.uaa.alaska.edu/***LS A101 Library Resources and Information Retrieval 1 CR**

Contact Hours: 1 + 0

Grade Mode: Pass/No Pass.

An introduction to information retrieval with particular emphasis on the print and electronic resources available at the campus library.

LS A111 Methods and Materials for Library Research 2 CR

Contact Hours: 2 + 0

Comprehensive course in college library research. Familiarizes the student with reference materials found in most academic library collections. Covers use of the catalog, indexes and basic reference materials, and provides guidance in selecting and researching a topic.

LIBERAL STUDIES INTEGRATED CORE - LSIC*Offered through the College of Arts and Sciences**Social Sciences Building (SSB), Room 379, 786-1732**http://liberalstudies.uaa.alaska.edu/***LSIC A192 Seminar I 1 CR**

Contact Hours: 1 + 0

Prerequisites: (ENGL A111 or concurrent enrollment) and (COMM A111 or concurrent enrollment).

Stacked with: LSIC 492, LSIC A392, and LSIC 292.

An introductory 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 A231 Truth, Beauty, and Goodness 3 CR

Contact Hours: 3 + 0

Prerequisites: (ENGL A111 or concurrent enrollment).

Crosslisted with: PHIL 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.

LSIC A292 Seminar II 1 CR

Contact Hours: 1 + 0

Prerequisites: LSIC A192.

Stacked with: LSIC A492, LSIC A392, and LSIC A192.

An intermediate 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 A331 Power, Authority, and Governance 3 CR

Contact Hours: 3 + 0

Prerequisites: LSSS A111.

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 III 1 CR

Contact Hours: 1 + 0

Prerequisites: LSIC A292.

Stacked with: LSIC 492, LSIC A292, and LSIC 192.

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: Meet prerequisites and completion of 9 credits of liberal studies disciplinary concentration.

The design and 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. Requires weekly meetings with mentors and extensive independent effort.

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 A492 Seminar IV 1 CR

Contact Hours: 1 + 0

Prerequisites: LSIC A392.

Stacked with: LSIC A392, LSIC A292, and LSIC A192.

An advanced comprehensive Learning Community approach to the study of issues in the natural sciences, social sciences, humanities, and performing and fine arts, using mathematics, 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.

LIBERAL STUDIES INTEGRATED SCIENCES - LSIS

*Offered through the College of Arts and Sciences
Social Sciences Building (SSB), Room 335, 786-1707
<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: MATH A105 and (LSIS A101 or concurrent enrollment).

Course Attributes: UAA GER Natural Sciences.

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 Sciences.

Examines 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.

LSIS A202 Concepts and Processes: Natural Sciences 5 CR

Contact Hours: 3 + 6

Prerequisites: LSIS A201 and (MATH A107 or concurrent enrollment).

Course Attributes: UAA GER Natural Sciences.

Fundamental concepts in physics and chemistry. Emphasizes logical connections between quantum mechanical view of matter and major themes of modern chemistry and biochemistry. A writing and speaking intensive course.

LIBERAL STUDIES SOCIAL SCIENCES - LSSS

Offered through the College of Arts and Sciences

Social Sciences Building (SSB), Room 335, 786-1707

<http://liberalstudies.uaa.alaska.edu/>

LSSS A111 Cultural Foundations of Human Behavior 3 CR

Contact Hours: 3 + 0

Culture as a concept and phenomenon, including its origins, variety, utility, subtlety, and complexity. Identify cultural aspects of human lives from various social science perspectives such as anthropology, sociology, and psychology. Apply methods to comprehend cultural differences and develop approaches to improving communication and understanding in cross-cultural circumstances. Examples of cultures from around the world, through time.

LSSS A311 People, Places, and Ecosystems 3 CR

Contact Hours: 3 + 0

Prerequisites: AS A252 and LSSS A111 and [LSIS A201 or BIOL A102].

Examines historical and current relationships between humans and their surrounding environments, both natural and constructed. Considers the coevolution of human societies and the biosphere, the idea of place, and the challenges of living in today's human-dominated ecosystems. Uses workshops and short field trips to collect and examine data about human-environment relationships from several social science perspectives. Requires extensive writing and multidisciplinary analysis.

LSSS A312 Individuals, Groups, and Institutions 3 CR

Contact Hours: 3 + 0

Prerequisites: LSSS A111.

The study of how individuals influence and are influenced by groups and institutions. Emphasis on individuals' roles in groups and institutional activities, group and institutional influence on people's lives, and dynamics in the formation and change of institutions.

MEDICAL ASSISTING - MA

*Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 155, 786-6928
<http://alliedhealth.uaa.alaska.edu/medicalassisting/>*

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 Medical Terminology II 3 CR

Contact Hours: 3 + 0

Prerequisites: MA A101 with minimum grade of C.

Advanced medical terminology. In-depth examination of more complex medical terms of human body systems and specialties of medicine.

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.

Introduces theory and application of diagnostic radiography. Covers medical and legal responsibilities of radiography, principles of x-ray equipment, radiation projection, radiographic interpretation, and history of x-ray.

MA A120 Medical Office Procedures I 4 CR

Contact Hours: 3 + 2

Special Fees.

Introduction and orientation to administrative and business aspects of medical offices and duties of medical office receptionist or administrative assistant. Includes medical law and ethics, reception and telephone procedures, orientation to health sciences, public relations, professionalism, and psychology of patient care.

MA A125 Medical Office Procedures II 4 CR

Contact Hours: 3 + 2

Prerequisites: MA A120.

Special Fees.

Continued study of business aspects of medical offices, including health insurance claims processing, bookkeeping, billing and collection procedures, and medical office procedures.

MA A140 Medical Transcription I 3 CR

Contact Hours: 1 + 4

Prerequisites: (MA A101 or concurrent enrollment).

Registration Restrictions: 45 WPM keyboarding in Windows word processing.

Special Fees.

Practice in machine transcribing of medical dictation, including medical report format and terminology.

MA A141 Contact Hours: 1 + 4 Prerequisites: MA A140. Special Fees. More advanced and complex machine transcribing of medical dictation.	Medical Transcription II	3 CR
MA A150 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.	Clinical Procedures I	4 CR
MA A155 Contact Hours: 3 + 2 Prerequisites: MA A150. 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.	Clinical Procedures II	4 CR
MA A220 Contact Hours: 3 + 0 Prerequisites: MA A101 and BIOL A100 or [BIOL A111 and BIOL A112]. Special Fees. Presents 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.	Coding for the Medical Office	3 CR
MA A290 Contact Hours: 1-6 + 0-15 Special Note: Prerequisites will vary with topic. Offers selected topics in medical assisting pertaining to current issues and trends. Course content is determined by current trends, current regulations, and student and employer needs.	Selected Topics in Medical Assisting	1-6 CR
MA A295 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 nontranscripted 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.	Medical Office Externship	5 CR
MA A320 Contact Hours: 2 + 0 Prerequisites: MA A220. Grade Mode: Pass/No Pass. 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.	Advanced Case Studies in Medical Coding	2 CR

MATHEMATICS - MATH

*Offered through the College of Arts and Sciences
Social Sciences Building (SSB), Room 154, 786-1742
www.math.uaa.alaska.edu/*

Each student enrolled in MATH A050 through MATH A205, MATH A250, MATH 270, or MATH 272 on campus will be charged a Math Lab Fee.

MATH A050A Contact Hours: 1 + 0 Special Fees. Special Note: MATH A050A, A050B, A050C combined are equivalent to MATH A054. Includes addition, subtraction, multiplication, and division (the four basic operations) on whole numbers, fractions and decimals, and a discussion of order of operations. Computation involving ratios, proportion, and percent is also included. The topic of math anxiety is dealt with throughout the course.	Basic Mathematics	1 CR
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MATH A050B Contact Hours: 1 + 0 Registration Restrictions: MATH A050A or Placement Test. Special Fees. Special Note: MATH A050A, A050B, A050C combined are equivalent to MATH A054. Includes a review of elementary geometry (area, perimeter, and volume calculations), the Pythagorean Theorem, similar and congruent triangles, order of operations, and an introduction to mathematical expressions using variables.	Review of Mathematical Concepts	1 CR
MATH A050C Contact Hours: 1 + 0 Registration Restrictions: MATH A050B or Placement Test. Special Fees. Special Note: MATH A050A, A050B, A050C combined are equivalent to MATH A054. Explores mathematical expressions using real numbers, exponents, and radicals. Also included is an overview of properties of equalities, solving equations, inequalities, elementary word problems, and the four operations on polynomials.	Introduction to Equations	1 CR
MATH A054 Contact Hours: 3 + 0 Special Fees. Special Note: MATH A050A, A050B, A050C combined are equivalent to MATH A054. Basic concepts of pre-algebra mathematics. 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.	Pre-Algebra	3 CR
MATH A055 Contact Hours: 3 + 0 Prerequisites: MATH A054 with minimum grade of C. Registration Restrictions: If prerequisite is not satisfied, Math Placement Test is required. Special Fees. Beginning algebra course. Includes operations with signed numbers and polynomials, factoring, exponents, radicals, algebraic fractions, solution of linear equations, systems of equations, linear inequalities, and quadratic equations. Basic graphing.	Elementary Algebra	3 CR
MATH A060 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. Teaches the concepts of basic arithmetic and introductory algebra. Develops ability to perform algebraic manipulations to the level where this knowledge can be used in intermediate algebra and in other disciplines. Includes operations on whole numbers, fractions, decimals, ratio, proportion, percent, measurement systems, topics from consumer mathematics, operations and properties of real numbers, order of operations, evaluation of literal expressions, solution of linear equations and expressions, solution of linear equations and inequalities, with polynomials, factoring and special products, fundamental operations with algebraic fractions, Cartesian graphing of linear equations and inequalities in two variables, solution of quadratic equations, elementary systems of equations. Time permitting: geometry of figures, scientific notation and variation.	Essential Mathematics	4 CR
MATH A101 Contact Hours: 3 + 0 Prerequisites: MATH A054. Special Note: This course will not satisfy the mathematics requirement for an Associate of Arts Degree. Provides mathematical training for students enrolled in technical programs. Includes basic arithmetic, operations with signed numbers, solving equations with one and two variables, formula evaluation and rearrangement. Introduction to right triangle trigonometry and solving word problems.	Technical Mathematics	3 CR
MATH A102 Contact Hours: 3 + 0 Designed for students with a modest mathematical background who wish to develop skills in applied business mathematics and financial matters. Topics include simple and compound interest, notes, present value, trade and cash discounts, markup/markdown, payrolls, depreciation, casualty insurance, sales and property tax, installment buying and business statistics.	Business Math	3 CR

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, Math Placement Test is required.

Special Fees.

Presumes solid foundation in elementary algebra. Includes 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, two years of high school algebra with grade of C or higher or Math Placement Test is required.

Course Attributes: UAA GER Quantitative Skills 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 and applications; solution of equations greater than second degree; determinants and matrices; systems of equations and inequalities, including applications; logarithmic and exponential functions, including applications; graphs and equations of conic sections, including applications; 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, two years of high school algebra with grade of C or higher or Math Placement Test is required.

Course Attributes: UAA GER Quantitative Skills 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 angular measure and trigonometric functions, fundamental trigonometric identities, composite angle identities, and graphs of trigonometric functions. Also includes complex numbers, DeMoivre's theorem, solution of right and oblique triangles, solution of trigonometric equations, inverse trigonometric functions and vectors. Provides calculation practice helpful for physics, engineering and survey technology courses.

MATH A109 Precalculus 6 CR

Contact Hours: 6 + 0

Prerequisites: MATH A105 with minimum grade of B.

Registration Restrictions: If prerequisite is not satisfied, two years of high school algebra with grade of B or higher or Math Placement Test is required.

Course Attributes: UAA GER Quantitative Skills Requirement.

Special Fees.

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.

Intensive course covering polynomial, rational, exponential, logarithmic and trigonometric functions, composite and inverse functions, conic sections, matrices and determinants, solutions of equations and inequalities, vectors, complex numbers, DeMoivre's theorem, polar coordinates, parametric and polar graphs, sequences and series, binomial theorem, and mathematical induction.

MATH A200 Calculus I 4 CR

Contact Hours: 4 + 0

Prerequisites: MATH A107 with minimum grade of C and MATH A108 with minimum grade of C or MATH A109 with minimum grade of C.

Registration Restrictions: If prerequisite is not satisfied, Math Placement Test is required.

Course Attributes: UAA GER Quantitative Skills Requirement.

Special Fees.

Review of functions and analytic geometry, limits, derivatives of trigonometric and rational algebraic functions, curve sketching, basic integration of power functions, the definite integral, and applications of differentiation and integration.

MATH A201 Calculus II 4 CR

Contact Hours: 4 + 0

Prerequisites: MATH A200 with minimum grade of C.

Course Attributes: UAA GER Quantitative Skills Requirement.

Special Fees.

Differentiation and integration of exponential, logarithmic and trigonometric functions. Parametric equations, arc length, polar co-ordinates, techniques of integration, and infinite series.

MATH A202 Calculus III 4 CR

Contact Hours: 4 + 0

Prerequisites: MATH A201 with minimum grade of C.

Special Fees.

Vectors, partial differentiation and multiple integration.

MATH A205 Communicating Mathematical Ideas 3 CR

Contact Hours: 3 + 0

Prerequisites: PSY A245 with minimum grade of C.

Registration Restrictions: Department Approval. Minimum grade of C in GER Quantitative Skills course.

Special Fees.

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.

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.

MATH A206 Mathematics for Elementary School Teachers II 3 CR

Contact Hours: 3 + 0

Prerequisites: MATH A205.

Continuation of MATH A205. Topics include real number systems and subsystems, algebra, graphing, logic, geometry, topology, measurement, metric system, probability and statistics, and calculators. Includes use of appropriate materials for teaching these topics.

MATH A215 Introduction to Mathematical Proofs 2 CR

Contact Hours: 2 + 0

Prerequisites: MATH A201.

Study of logic, sets, relations, functions, cardinality, and mathematical proof techniques.

MATH A231 Introduction to Discrete Mathematics 3 CR

Contact Hours: 3 + 0

Prerequisites: MATH A107.

Registration Restrictions: If prerequisite is not satisfied, two years of high school algebra or Math Placement Test is required.

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.

MATH A250 Introduction to Computer Algebra Systems 1 CR

Contact Hours: 1 + 0

Prerequisites: MATH A200 or MATH A272.

Grade Mode: Pass/No Pass.

Special Fees.

Introduction to the use of a computer algebra system as a tool to solve mathematical problems. Topics will cover syntax, symbolic calculations, plots, control structures, lists, and matrices. Writing of programs by students is required.

MATH A270 Applied Finite Mathematics for the Managerial Sciences 3 CR

Contact Hours: 3 + 0

Prerequisites: MATH A105.

Registration Restrictions: If prerequisite is not satisfied, two years of high school algebra or Math Placement Test is required.

Course Attributes: UAA GER Quantitative Skills Requirement.

Special Fees.

Linear equations and inequalities, algebra of matrices, introductory linear programming, logarithms and exponential functions. Applications emphasizing the relationships of these mathematical concepts to quantitative decision making in managerial sciences.

MATH A272 Calculus for Managerial Sciences 3 CR

Contact Hours: 3 + 0

Prerequisites: MATH A270 or MATH A107.

Course Attributes: UAA GER Quantitative Skills Requirement.

Special Fees.

Functions and graphs, differentiation, exponential and logarithmic functions, antidifferentiation and integration, functions of several variables. Applications of these mathematical concepts.

MATH A302	Ordinary Differential Equations	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A202. Special Fees. 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.		
MATH A303	Introduction to Modern Algebra	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A202 and MATH A215. Introduction to sets, groups, rings and fields.		
MATH A305	Introduction to Geometries	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A202 and MATH A215. Euclidean and non-Euclidean plane geometry, and topics selected from affine geometry and projective geometry.		
MATH A306	Discrete Methods	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A200 and [MATH A215 or MATH A231]. Graph theoretical and combinatorial problem solving. Discrete models for applied problems are introduced and algorithmic as well as closed form solution techniques are applied.		
MATH A310	Numerical Methods	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A314. Registration Restrictions: Programming Language. Introduction to the theory and practice of computation with special emphasis on methods useful with digital computers. Topics include matrix calculations and the solution of systems of linear equations, the solution of nonlinear equations, interpolation and approximation, numerical differentiation and integration, and solution of differential equations.		
MATH A314	Linear Algebra	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A202. Special Fees. Linear equations, finite dimensional vector spaces, matrices, determinants, linear transformations, and characteristic values. Inner product spaces.		
MATH A321	Analysis of Several Variables	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A202 and MATH A314. 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.		
MATH A324	Advanced Calculus	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A202 and MATH A215. 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.		
MATH A371	Stochastic Processes	3 CR
Contact Hours: 3 + 0 Prerequisites: AS A307 and MATH A201. Theory and applications, including moment generating functions, conditional expectation, Poisson processes, Markov chains, and topics selected from: branching processes, queueing theory, random walks, and reliability theory.		
MATH A407	Mathematical Statistics I	3 CR
Contact Hours: 3 + 0 Prerequisites: AS A307 and MATH A202. Topics include probability spaces, mathematical expectation, moments, moment generating functions, probability mass functions, probability density functions, functions of random variables, and modes of convergence.		
MATH A408	Mathematical Statistics II	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A407. Continuation of MATH A407. Includes sampling distributions, limit theorems, order statistics, point estimation, sufficient statistics, interval estimation, hypothesis testing, and 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. 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 chosen by faculty member teaching the course.		
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. No more than 3 credits may be applied towards a degree. May not be applied to upper division requirements in Mathematics. 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.		
MATH A498	Individual Research	1-3 CR
Contact Hours: 1-3 + 0 Registration Restrictions: Minimum of six credits of upper division mathematics courses with a minimum grade of B and faculty permission. Special Fees. 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.		

MECHANICAL ENGINEERING - ME

*Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900
www.engr.uaa.alaska.edu*

ME A664	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.		
ME 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.		

ME A687 Arctic Materials Engineering 3 CR

Contact Hours: 3 + 0

Prerequisites: CE A603.

The performance of materials subjected to temperature extremes typical of the Arctic are examined. Specific topics covered include metallic and nonmetallic solids, fuels and lubricants, batteries, electrical considerations, corrosion and human performance.

MECHANICAL TECHNOLOGY - MECH*Offered through Kenai Peninsula College*

34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

www.kpc.alaska.edu**MECH A101 Introduction to Machine Shop 4 CR**

Contact Hours: 2 + 4

Offered only at Kenai Peninsula College.

The fundamentals of safe machine shop practice including the operation of the lathe, vertical mill, bandsaw, drill press, grinders, cut-off saw, and radial drill. Precision measurement, single point threading and off-hand drill sharpening are taught with emphasis on repair work.

MECH A102 Intermediate Machine Shop 4 CR

Contact Hours: 2 + 4

Prerequisites: MECH A101.

Offered only at Kenai Peninsula College.

A continuation of safe shop fundamentals to include metallurgy, gears, fits, broaching, tapers, indexing and dividing, rotary table, multiple lead threads, carbide tools, and finishes. The use of machinery as required for machine repair. More complex projects will be completed by the student.

MECH A115 Gasoline Engine Rebuilding 3 CR

Contact Hours: 2 + 2

Offered only at Kenai Peninsula College.

Discusses in detail the operating principles of aspirated, non-computerized automotive engines. Includes hands-on practice in rebuilding procedures including valve grinding, bearing fitting, and cylinder boring.

MECH A201 Advanced Machine Shop 4 CR

Contact Hours: 2 + 4

Prerequisites: MECH A101.

Registration Restrictions: The student should have fundamental skills with the lathe, mill, drill press, saws, and hand tools.
Offered only at Kenai Peninsula College.

Advanced projects will be completed by students to include surface grinding, heat treatment of metals, hardness testing, shaft straightenings, and machining couplings. Other topics will be lapping, magna-flux, boring operations, effects of welding on machining, keyed assemblies, collets and torque.

MECH A202 Advanced Machine Shop II 4 CR

Contact Hours: 2 + 4

Prerequisites: MECH A101.

Registration Restrictions: The student should have fundamental skills with the lathe, mill, drill press, saws, and hand tools.
Offered only at Kenai Peninsula College.

Emphasis on repair with imagination. Includes design, sketching, machining, and completing advanced repair projects. Covers original concepts and creative repair methods.

MECH A220 Computer Numerical Control Mill 4 CR

Contact Hours: 2 + 4

Prerequisites: MECH A201 or MECH A202.

Registration Restrictions: If prerequisite is not met, five years repair shop experience or instructor permission.

Programming, operating, and producing mill parts on the computer numerical control mill (3-axis). Includes the history of computer numerical control mill, programming conventions, standards, format, cutting tools, tool changing, tool offsets, feedback systems, adaptive control, computer to machine, and mill practice.

MECH A273 Machine Shop Lab 1 CR

Contact Hours: 0 + 1

Registration Restrictions: Three semesters of machine shop.

Offered only at Kenai Peninsula College.

Advanced machine shop practice to include more involved projects, machine tool set-ups, and techniques. Emphasizes student planning, executing, and completing projects at a high level.

MEDICAL LABORATORY TECHNOLOGY - MEDT*Offered through the Community & Technical College**Allied Health Sciences Building (AHS), Room 155, 786-6928*<http://alliedhealth.uaa.alaska.edu/medlabtech/>

This department is undergoing curriculum revision. Contact department for specific details.

MEDT A101 Phlebotomy Procedures 3 CR

Contact Hours: 2 + 3

Special Fees.

Covers infection control, safety, blood collection by venipuncture and capillary techniques, specimen processing, quality assurance, communications, professionalism, ethics, and laboratory computer usage. 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.

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.

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: 3 + 0

Prerequisites: MEDT A101 with minimum grade of C.

Covers specimen collection, reagent preparation, quality control, and testing of microbiology specimens at the clinical assistant level.

MEDT A132 Introduction to Laboratory Medicine 3 CR

Contact Hours: 2 + 2

Special Fees.

Introduces use and care of basic laboratory equipment. Discusses general aspects of quality control, laboratory safety, recording of data, storage of reagents, venipuncture, and capillary puncture techniques.

MEDT A195A Phlebotomy Practicum 3 CR

Contact Hours: 0 + 9

Prerequisites: MEDT A101 with minimum grade of C.

Grade Mode: Pass/No Pass.

Provides clinical practicum in area hospitals/facilities for phlebotomy. Applies didactic theories and principles of phlebotomy techniques. Prepares student for certification exam.

MEDT A195B Clinical Assistant Practicum 7 CR

Contact Hours: 0 + 21

Prerequisites: MEDT A102 with minimum grade of C and MEDT A103 with minimum grade of C and MEDT A104 with minimum grade of C and MEDT A105 with minimum grade of C.

Grade Mode: Pass/No Pass.

Provides clinical practicum in area hospitals/facilities for clinical assistants. Applies didactic theories and principles of urinalysis, hematology, clinical chemistry, and microbiology at the clinical assistant level.

MEDT A202 Clinical Chemistry 6 CR

Contact Hours: 3 + 6

Prerequisites: CHEM A103 with minimum grade of C and CHEM A103L with minimum grade of C and CHEM A104 with minimum grade of C and BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and MEDT A132 with minimum grade of C.

Special Fees.

Develops skills in the performance of 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 control.

MEDT A203	Clinical Microbiology	6 CR
Contact Hours: 3 + 6 Prerequisites: CHEM A103 with minimum grade of C and CHEM A103L with minimum grade of C and CHEM A104 with minimum grade of C and BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and MEDT A132 with minimum grade of C. Special Fees. Studies microorganisms of medical importance to humans. Includes bacteriology, mycology, and parasitology with emphasis on media, isolation and culture techniques, biochemical tests and staining techniques used in identification, and sensitivity testing.		
MEDT A204	Hematology and Coagulation	6 CR
Contact Hours: 3 + 6 Prerequisites: CHEM A103 with minimum grade of C and CHEM A103L with minimum grade of C and CHEM A104 with minimum grade of C and BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and MEDT A132 with minimum grade of C. Special Fees. Emphasizes the theory and practice of both manual and automated methods in hematology and coagulation. Discusses abnormal aspects of the formed elements and less frequently performed hematology and coagulation tests.		
MEDT A206	Immunology and Blood Banking	6 CR
Contact Hours: 3 + 6 Prerequisites: CHEM A103 with minimum grade of C and CHEM A103L with minimum grade of C and CHEM A104 and BIOL A111 and BIOL A112 and MEDT A132. Special Fees. Introduces the theory of antigen-antibody reactions as it relates to blood grouping and typing, antibody detection, and compatibility testing. Discusses blood donor screening and component preparations, immunologically related diseases, transplantation, and principles of antigen-antibody based tests.		
MEDT A208	Urine and Body Fluid Analysis	3 CR
Contact Hours: 2 + 2 Prerequisites: CHEM A103 with minimum grade of C and CHEM A103L with minimum grade of C and CHEM A104 with minimum grade of C and BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and MEDT A132 with minimum grade of C. Special Fees. Develops skills in the theory and practice of chemical, physical, and microscopic analysis of urine and other body fluids.		
MEDT A250	Capstone Seminar	1 CR
Contact Hours: 2 + 0 Registration Restrictions: Departmental permission. Grade Mode: Pass/No Pass. Special Fees. Uses discussion format enhanced by speakers, role-playing, problem solving, and case studies on current topics in the clinical laboratory. Emphasizes ethical principles in relation to technical applications.		
MEDT A295	Clinical Practicum	12 CR
Contact Hours: 0 + 36 Prerequisites: MEDT A202 with minimum grade of C and MEDT A203 with minimum grade of C and MEDT A204 with minimum grade of C and MEDT A206 with minimum grade of C and MEDT A208 with minimum grade of C and (MEDT A250 with minimum grade of C or concurrent enrollment). Special Fees. Special Note: Supervised by UAA faculty and facility personnel. Students are assigned to an affiliate hospital or clinical laboratory. Students rotate through several departments applying the skills learned in prior theory and lab courses.		
MEDT A301	Clinical Molecular Biology	4 CR
Contact Hours: 3 + 3 Prerequisites: BIOL A112 with minimum grade of C and MATH A107 with minimum grade of C and CHEM A104 with minimum grade of C and CHEM A321 with minimum grade of C. Special Fees. Examines the practice of molecular biology and its applications in the clinical laboratory. Topics include human genetics, DNA chemistry, nucleic acid extraction and modification, electrophoresis, southern blotting, hybridization, amplification, sequencing, laboratory practices, and regulatory standards.		
MEDT A302	Clinical Laboratory Education and Management	4 CR
Contact Hours: 4 + 0 Registration Restrictions: MLT program director and faculty approval. Grade Mode: Pass/No Pass. Applies education and management principles to laboratory medicine and allied health science professions. Topics include education process and teaching methods. Managerial components incorporate planning, directing, and evaluating. Designed for students with an educational or working background in a health care field.		

MEDT A303	Advanced Clinical Microbiology	4 CR
Contact Hours: 3 + 3 Prerequisites: MEDT A203 with minimum grade of C. Special Fees. Examines microorganisms of medical importance to humans. Includes unusual pathogenic and anaerobic bacteriology, mycology, parasitology, and virology with emphasis on identification, susceptibility testing, and epidemiology		
MEDT A492	Undergraduate Seminar	1 CR
Contact Hours: 1 + 0 Prerequisites: ENGL A312 and (MEDT A495 or concurrent enrollment). Grade Mode: Pass/No Pass. Applies research and presentation methods to current topics in medical technology.		
MEDT A495	Medical Technology Practicum	12 CR
Contact Hours: 0 + 36 Prerequisites: MEDT A301 with minimum grade of C and MEDT A302 with minimum grade of P and MEDT A303 with minimum grade of C. Registration Restrictions: MLT program director or faculty approval. Special Fees. Applies skills learned in prior theory and lab courses to each of the departments in the clinical laboratory at an affiliate site. Supervised by UAA faculty and clinical laboratory personnel.		

MARINE TECHNOLOGY - MT

Offered through Kenai Peninsula College
34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.
www.kpc.alaska.edu

MT A122	Small Engine Maintenance and Repair	3 CR
Contact Hours: 3 + 0 Offered only at Kenai Peninsula College. Maintenance and operation of small gasoline engines. Application of these engines to pumps, chain saws, and outboard motors.		
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.		

MASSAGE THERAPY PROGRAM - MTP

Offered through the Community and Technical College
Allied Health Sciences Building (AHS), Room 219, 786-4930
<http://alliedhealth.uaa.alaska.edu/massagetherapy/>

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 A152	Human Health and Disease II	3 CR
Contact Hours: 3 + 0 Prerequisites: MTP A151 with minimum grade of C. Special Fees. Concludes the study of the eleven basic systems of the human body, their anatomical cellular structures, and physiological functions. Emphasis is placed on showing how the body's structure and function achieve a level of homeostasis through varied regulatory systems. Second 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 A155	Massage Therapy Business Management	2 CR
Contact Hours: 2 + 0 Special Fees. Provides professional practice models and information to plan, set up, market, and run a new practice as required by Massage Therapy licensure and certification.		

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. CD#: 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 or concurrent enrollment). 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.		
MTP A173	Basic Jin Shin Do Acupressure	3 CR
Contact Hours: 2 + 2 Special Fees. Introduces classic Chinese acu-theory including a synthesis of traditional Japanese acupressure techniques, Reichian segmental theory, Taoist philosophy, and QiGong breathing and exercise techniques.		
MTP A174	Introduction to Reflexology	4 CR
Contact Hours: 3 + 2 Special Fees. Presents the principles and theories of reflexology. Students will learn to read the map of the body on the feet and stimulate the area of various reflexes on the foot or hand.		
MTP A254	Structure, Function, and Movement	3 CR
Contact Hours: 3 + 0 Prerequisites: (MTP A152 with minimum grade of C or concurrent enrollment) and MTP A154 with minimum grade of P. Special Fees. Presents the musculoskeletal system and the biomechanical relationships of muscles with their corresponding joints. Teaches anatomical and kinesiological terminology, major muscles, their actions and location. Includes palpation, active and passive range of motion, and movement analysis.		
MTP A266	Goal-Oriented Massage	2 CR
Contact Hours: 2 + 0 Prerequisites: MTP A152 and (MTP A254 with minimum grade of C or concurrent enrollment). Corequisite: MTP A267 and MTP A295. Special Fees. Presents common overuse syndromes, compensation patterns, functional assessment, and outcome-based treatments. Addresses adaptive massage considerations for clients with special needs.		
MTP A267	Assessment and Applications in Massage	4 CR
Contact Hours: 2 + 4 Prerequisites: MTP A152 and (MTP A254 with minimum grade of C or concurrent enrollment). Corequisite: MTP A266 and MTP A295. Special Fees. Presents assessment and massage techniques using range of motion, proprioceptive neuromuscular facilitation stretching, lymphatic drainage, hydrotherapy, and seated work.		

MTP A273	Intermediate Jin Shin Do	4 CR
Contact Hours: 3 + 2 Prerequisites: MTP A173. Special Fees. Introduces 60 new acupoints. Presents the twelve organ meridians, according to location and psycho-physical associations. Differentiates Western and Eastern understanding of physiology.		
MTP A295	Massage Therapy Clinic	2 CR
Contact Hours: 0 + 6 Prerequisites: (MTP A254 with minimum grade of C or concurrent enrollment). Corequisite: MTP A266 and MTP A267. Grade Mode: Pass/No Pass. Special Fees. Provides the massage therapy student the opportunity to integrate assessment, documentation, and technical skill competency in a clinical setting using the general public as clients.		

MUSIC - MUS

*Offered through the College of Arts and Sciences
Fine Arts Building (ARTS), Room 356, 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 A102	Concert 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 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: Age group ranges from 10-80. Experience ranges from basic to professional. Structured, established concert band.		
MUS A105	Jazz Techniques Lab	2 CR
Contact Hours: 2 + 0 Registration Restrictions: Admission by audition only. Performance-oriented group for students with intermediate to advanced instrumental skills. Focuses on reading, rehearsal, and study of contemporary music adapted for big band sound or jazz ensemble.		
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 in treble and bass clef in all keys. 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. Enhancement of listener understanding and enjoyment of various musical styles. Investigation of music through the ages: Medieval through contemporary.		
MUS A124	History of Jazz	3 CR
Contact Hours: 3 + 0 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 and Ear Training II	2 CR
Contact Hours: 2 + 0 Prerequisites: MUS A133. Corequisite: MUS A132. Continuation of MUS A133, emphasizing rhythmic, melodic and harmonic dictation.		
MUS A140	Fingerstyle Guitar I	2 CR
Contact Hours: 2 + 0 Special Fees. Special Note: Student must furnish own 6-string acoustic guitar. Beginning course for those who do not read music or have limited experience with the guitar. Students develop repertoire of traditional, folk, and contemporary music using 13 basic chord shapes, alternating bass technique, simple notereading skills, and six basic fingerstyle guitar patterns.		
MUS A141	Fingerstyle Guitar II	2 CR
Contact Hours: 2 + 0 Registration Restrictions: MUS A140 or the ability to noteread melodies on the guitar in the key of C; acquaintance with fingerstyle technique and the concept of alternating bass. Audition required for students who have not completed MUS A140. Special Fees. Continuation of MUS A140. Introduces barre chords, bass runs, ornamentation, and major and minor scale studies. Beginning solo skills using examples from contemporary and classical literature and fingerstyle accompaniment 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 Fees. 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. Fundamentals of piano techniques. Introduces notereading in five-finger positions in the keys of C and G, using folk and classical arrangements in simple meter. Classes conducted in piano lab.		

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. 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. Music before 1750. Explores stylistic developments and structure through Medieval, Renaissance, and Baroque eras within their historical context. Also covers World Music topics, with attention to the Music of the North (Alaska Native).		
MUS A222	History of Music II	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. Western Art music since 1750. Stylistic developments and structure through Classical, Romantic, and 20th Century eras within their historical context.		

MUS A231	Music Theory III	3 CR	MUS A301A	University Singers	1 CR
Contact Hours: 3 + 0			Contact Hours: 2 + 0		
Prerequisites: MUS A132.			Registration Restrictions: By audition.		
Corequisite: MUS A233.			Grade Mode: Pass/No Pass.		
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.			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.		
MUS A232	Music Theory IV	3 CR	MUS A301B	University Singers	2 CR
Contact Hours: 3 + 0			Contact Hours: 2 + 0		
Prerequisites: MUS A231.			Registration Restrictions: By audition.		
Corequisite: MUS A234.			Stacked with: MUS A301A.		
Continuation of MUS A231. Features borrowed chords and other types of chromatic harmonies. Surveys 20th Century harmony.			Special Fees.		
			Special Note: 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.		
MUS A233	Sightsinging and Ear Training III	2 CR	MUS A302A	Chamber Music and Accompanying	1 CR
Contact Hours: 2 + 0			Contact Hours: 1 + 3		
Prerequisites: MUS A134.			Registration Restrictions: By audition.		
Corequisite: MUS A231.			Grade Mode: Pass/No Pass.		
Develops advanced skills in hearing and reading music. Features modulation, chromaticism and complex rhythmic patterns.			Stacked with: MUS A302B.		
			Special Note: May be repeated for credit. Advanced vocalists and instrumentalists are also encourage 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.		
MUS A234	Sightsinging and Ear Training IV	2 CR	MUS A302B	Chamber Music and Accompanying	2 CR
Contact Hours: 2 + 0			Contact Hours: 1 + 3		
Prerequisites: MUS A233.			Registration Restrictions: By audition.		
Corequisite: MUS A232.			Stacked with: MUS A302A.		
Continuation of MUS A233.			Special Note: 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.		
MUS A240	Fingerstyle Guitar III	2 CR	MUS A303A	University Wind Ensemble	1 CR
Contact Hours: 2 + 0			Contact Hours: 2 + 0		
Prerequisites: MUS A141 and MUS A142.			Registration Restrictions: By audition.		
Registration Restrictions: Faculty permission.			Grade Mode: Pass/No Pass.		
Special Fees.			Stacked with: MUS A303B.		
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.			Special Note: 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.		
MUS A241	Fingerstyle Guitar IV	2 CR	MUS A303B	University Wind Ensemble	2 CR
Contact Hours: 2 + 0			Contact Hours: 2 + 0		
Prerequisites: MUS A142 and MUS A240.			Registration Restrictions: By audition.		
Registration Restrictions: Faculty permission required.			Stacked with: MUS A303A.		
Special Fees.			Special Note: May be repeated for credit.		
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.			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.		
MUS A242	Solo Fingerstyle Guitar	2 CR	MUS A307A	University Sinfonia	1 CR
Contact Hours: 2 + 0			Contact Hours: 2 + 0		
Prerequisites: MUS A142 and MUS A240.			Registration Restrictions: By audition.		
Registration Restrictions: Faculty permission required.			Grade Mode: Pass/No Pass.		
Special Fees.			Stacked with: MUS A307B.		
Special Note: May be repeated twice for credit.			Special Note: May be repeated for credit.		
Performance-oriented course for the intermediate guitarist. Focuses upon rehearsal and memorization techniques using literature appropriate to each student's level of instrumental mastery. Continues notereading studies in all positions and exercises in small ensemble performance.			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.		
MUS A261	Private Lessons	1-2 CR	MUS A307B	University Sinfonia	2 CR
Contact Hours: 1-2 + 3-6			Contact Hours: 2 + 0		
Special Fees.			Registration Restrictions: By audition.		
Continuation of MUS A162.			Stacked with: MUS A307A.		
			Special Note: May be repeated for credit.		
MUS A262	Private Lessons	1-2 CR			
Contact Hours: 1-2 + 3-6					
Special Fees.					
Continuation of MUS A261.					
MUS A263	Private Lessons (Non-Major)	1-2 CR			
Contact Hours: 1-2 + 3-6					
Special Fees.					
Continuation of MUS A164.					
MUS A264	Private Lessons (Non-Major)	1-2 CR			
Contact Hours: 1-2 + 3-6					
Special Fees.					
Continuation of MUS A263.					
MUS A280	Basic Conducting	2 CR	MUS A313	Opera Workshop	1-3 CR
Contact Hours: 2 + 0			Contact Hours: 0 + 3-9		
Prerequisites: MUS A131.			Registration Restrictions: Faculty permission required.		
Introduces principles of conducting. Explores time-beating, use of left hand, score reading, and transposition as it relates to conducting.			Grade Mode: Pass/No Pass.		
			Special Fees.		
			Special Note: May be repeated for credit.		
			The study, rehearsal, production, and performance of selected works from the standard operatic repertoire.		

COURSE DESCRIPTIONS

MUS A331	Form and Analysis	3 CR
Contact Hours: 3 + 0 Prerequisites: MUS A232. Structural principles and stylistic analysis 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. 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. Stacked with: MUS A405A. 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. Elective for music majors.		
MUS A407	Jazz Combo	2 CR
Contact Hours: 2 + 0 Prerequisites: MUS A162. Registration Restrictions: By audition. 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. 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. 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. 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. Stacked with: MUS A409A. Special Fees. Special Note: May be repeated seven times 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 sightreading and refines practice and memorization skills, stylistic interpretation, and stage delivery. Ensemble credit for guitar majors.		

MUS A420	Medieval and Renaissance Music	3 CR
Contact Hours: 3 + 0		
Prerequisites: MUS A222 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 developments in Europe up to 1600. In-depth study of sacred and secular monophony, polyphony, choral and instrumental music. Requires intensive listening and reading of music.		
MUS A421	Music in the Baroque Period	3 CR
Contact Hours: 3 + 0		
Prerequisites: MUS A222 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 A222 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 A222 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, lieder, 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 A222 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 forms.		
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 Teaching Music I, K-12	4 CR
Contact Hours: 4 + 0		
Prerequisites: ED A424.		
Registration Restrictions: Admission to the Master of Arts in Teaching Program.		
Corequisite: ED A695A.		
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	2 CR
Contact Hours: 2 + 0		
Prerequisites: MUS A668A.		
Registration Restrictions: Admission to the Master of Arts in Teaching Program.		
Corequisite: ED A695B.		
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.		

NURSING SCIENCES - NS

*Offered through the College of Health & Social Welfare
Professional Studies Building (PSB), Room 103, 786-4550
<http://nursing.uaa.alaska.edu>*

NS A	Family Nurse Practitioner Focus on Pediatrics 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. Current immunization per SON policy; current CPR certification; individual malpractice insurance 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 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 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		
Registration Restrictions: RN licensure in State of Alaska		
Corequisite: NS A305L.		
Special Note: Offered Fall Semesters.		
Application of the nursing process focusing on health assessment, skills and tools for subjective and objective data collection, and interview techniques. The processes of history taking and physical examination are emphasized.		
NS A305L	Health Assessment of Individuals Lab	1 CR
Contact Hours: 0 + 3		
Registration Restrictions: RN licensure in the State of Alaska.		
Corequisite: NS A305.		
Grade Mode: Pass/No Pass.		
Special Fees.		
Special Note: Offered Fall Semesters.		
Skills laboratory experience to build skills and reinforce student learning in NS 305.		
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: 2 + 2		
Prerequisites: NS A216 and NS A300 and NS A303 and NS A303L and NS A309.		
Corequisite: NS A313L.		
Special Note: Offered Fall and Spring Semesters.		
Emphasis on episodic health disruptions occurring across the life span. Nursing therapeutics utilized focus on nursing management of the individual, the family, and the environment to optimize wellness.		
NS A313L	Health Disruptions I Laboratory	3 CR
Contact Hours: 0 + 9		
Prerequisites: NS A216 and NS A300 and NS A303 and NS A303L and NS A309.		
Corequisite: NS A313.		
Grade Mode: Pass/No Pass.		
Special Fees.		
Special Note: Offered Fall and Spring Semesters.		
Clinical experience to build skills and reinforce student learning in NS A313.		
NS A314	Health I for Registered Nurses	2 CR
Contact Hours: 2 + 0		
Prerequisites: NS A204 and NS A308.		
Registration Restrictions: RN licensure in the state of Alaska.		
Corequisite: NS A314L.		
Emphasizes health promotion, illness prevention, and health protection strategies for individuals, families, and small groups. Focus on promoting healthy lifestyles across the life span. Class will introduce concepts of community health nursing, epidemiology, and injury.		
NS A314L	Health I for Registered Nurses Lab	2 CR
Contact Hours: 0 + 6		
Prerequisites: NS A204 and NS A308.		
Corequisite: NS A314.		
Grade Mode: Pass/No Pass.		
Special Fees.		
Clinical experience in NS A314L will build skills and reinforce learning in NS A314. This course focuses on health promotion, illness prevention, and health protection strategies for individuals, families, and small groups.		
NS A315	Health I: Nursing Therapeutics	3 CR
Contact Hours: 2 + 2		
Prerequisites: NS A216 and NS A300 and NS A303 and NS A303L and NS A309.		
Corequisite: NS A315L.		
Special Note: Offered Fall and Spring Semesters.		
Emphasizes health states and risk factors in individuals and families across the life span that are amenable to health promotion and illness prevention efforts, achieving and maintaining healthy lifestyles, as well as self-management of health.		
NS A315L	Health I: Nursing Therapeutics Laboratory	3 CR
Contact Hours: 0 + 9		
Prerequisites: NS A216 and NS A300 and NS A303 and NS A303L and NS A309.		
Corequisite: NS A315.		
Grade Mode: Pass/No Pass.		
Special Fees.		
Special Note: Offered Fall and Spring Semesters.		
Clinical experience to build skills and reinforce student learning in NS A315.		
NS A400	Nursing Research	3 CR
Contact Hours: 3 + 0		
Prerequisites: 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 PHIL A302.		
Registration Restrictions: Prior completion of a statistics course.		
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.		

NS A401	Health Disruptions II	3 CR
Contact Hours: 2 + 2		
Prerequisites: NS A216 and NS A300 and NS A303 and NS A304 and NS A309 and NS A313 and NS A315.		
Corequisite: NS A401L.		
Special Note: Offered Fall and Spring Semesters.		
Emphasis on physical and psychological health disruptions occurring across the life span. Nursing therapeutics utilized focus upon impacting wellness through both psychological and physical dimensions of nursing care.		
NS A401L	Health Disruptions II Laboratory	3 CR
Contact Hours: 0 + 9		
Prerequisites: NS A313 and NS A313L and NS A315 and NS A315L.		
Corequisite: NS A401.		
Grade Mode: Pass/No Pass.		
Special Fees.		
Special Note: Offered Fall and Spring Semesters.		
Clinical experience to build skills and reinforce student learning in NS A401.		
NS A403	Community Nursing I	2 CR
Contact Hours: 2 + 0		
Prerequisites: (NS A403L or concurrent enrollment).		
Registration Restrictions: Grade of C or better in all required 300-level nursing courses and/or successful completion of all challenge exams.		
Special Note: Offered Fall and Spring Semesters.		
Theory of community health nursing. Emphasizes theories of health promotion, prevention and protection strategies for individuals, families, and small groups.		
NS A403L	Community Nursing I Lab	2 CR
Contact Hours: 0 + 6		
Prerequisites: (NS A403 or concurrent enrollment).		
Registration Restrictions: Grade of C or better in all required 300-level nursing courses and/or successful completion of all challenge exams.		
Grade Mode: Pass/No Pass.		
Special Fees.		
Special Note: Offered Fall and Spring Semesters.		
Clinical experience to build skills and reinforce student learning in NS 403.		
NS A404	Community Nursing II	1 CR
Contact Hours: 1 + 0		
Registration Restrictions: RN students: grade of C or better in NS A403 and grade of P in NS A403L. Basic students: grade of C or better in NS A403, A405, and A415. Grade of P in NS A403L and NS A405L. All students: concurrent enrollment in NS 404L.		
Corequisite: NS A404L.		
Special Note: Offered Fall and Spring Semesters.		
Health promotion and protection as applied to population groups and large aggregates. Emphasis on nursing decisions that identify, intervene, and evaluate population-based health risks. Structure and function of community processes that influence population health care are included.		
NS A404L	Community Nursing II Lab	2 CR
Contact Hours: 0 + 6		
Prerequisites: (NS A404 or concurrent enrollment).		
Registration Restrictions: RN students: grade of C or better in NS A403 and grade of P in NS A403L. Basic students: grade of C or better in NS A403, A405, and A415. Grade of P in NS A403L and NS A405L.		
Grade Mode: Pass/No Pass.		
Special Fees.		
Special Note: Offered Fall and Spring Semesters.		
Clinical experience to build skills and reinforce student learning in NS 404.		
NS A406	Nursing Therapeutics in Complex Health Disruptions	2 CR
Contact Hours: 2 + 0		
Prerequisites: NS A401 and NS A401L.		
Registration Restrictions: For all RN students: completion of NS A314 and NS A314L with a minimum grade of C.		
Corequisite: NS A406L.		
Special Note: Offered Fall and Spring Semesters.		
Emphasis on health disruption with complex pathophysiology and/or psychological adjustments of clients of all ages and families. Nursing management includes a high level of collaboration with other health care providers and agencies utilizing previously learned nursing therapeutics.		

NS A406L	Nursing Therapeutics in Complex Health Disruptions Laboratory	2 CR
Contact Hours: 0 + 6		
Prerequisites: NS A401 and NS A401L.		
Registration Restrictions: For all RN students: completion of NS A314 and NS A314L with a minimum grade of C.		
Corequisite: NS A406.		
Grade Mode: Pass/No Pass.		
Special Fees.		
Special Note: Offered Fall and Spring Semesters.		
Clinical experience to build skills and reinforce student learning in NS A406.		
NS A411	Health II: Nursing Therapeutics	3 CR
Contact Hours: 3 + 0		
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 A406 with minimum grade of C and NS A406L with minimum grade of P.		
Corequisite: NS A411L.		
Extends the concepts in Health I: Nursing Therapeutics to encompass small groups, communities, and populations. Therapeutics focuses on the role of the professional nurse in population-focused care utilizing health promotion, health protection, and illness prevention strategies.		
NS A411L	Health II: Nursing Therapeutics Laboratory	3 CR
Contact Hours: 0 + 9		
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 A406 with minimum grade of C and NS A406L with minimum grade of P.		
Corequisite: NS A411.		
Grade Mode: Pass/No Pass.		
Special Fees.		
Clinical experience to build skills and reinforce student learning in NS A411.		
NS A415	Nursing Management and Legal Perspectives	4 CR
Contact Hours: 4 + 0		
Prerequisites: NS A313 with minimum grade of C and NS A315 with minimum grade of C and NS A319 with minimum grade of C.		
Special Fees.		
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.		
NS A416	Concentration in Clinical Nursing	.5 CR
Contact Hours: 1 + 0		
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 A406 with minimum grade of C and NS A406L with minimum grade of P and NS A411 with a minimum grade of C and NS A411L with a minimum grade of P and NS A415 with a minimum grade of C.		
Corequisite: NS A416L.		
Grade Mode: Pass/No Pass.		
Special Fees.		
Special Note: Offered Fall and Spring Semesters.		
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.		
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 A406 with minimum grade of C and NS A406L with minimum grade of P and NS A411 with a minimum grade of C and NS A411L with a minimum grade of P and NS A415 with a minimum grade of C.		
Corequisite: NS A416.		
Grade Mode: Pass/No Pass.		
Special Note: Offered Fall and Spring Semesters.		
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		
Registration Restrictions: RN licensure in Alaska.		
Special Fees.		
Special Note: Offered Spring Semesters.		
Basic theories of management and organizations 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. Registered nurse students integrate knowledge and skills gained from their own clinical practice into a 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. Exploration 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

Registration Restrictions: Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska.

Special Fees.

Exploration of current issues, research, controversies affecting women's health with a focus on health promotion and maintenance. Life cycle issues will be addressed. Special needs and interventions for unique populations will be addressed. The focus on health promotion and maintenance and an advocacy viewpoint suggest this course for health professionals.

NS A426 Critical Care Concepts in Acute Care Settings 3 CR

Contact Hours: 3 + 0

Registration Restrictions: RN licensure in state of Alaska.

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

Registration Restrictions: Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska.

Special Fees.

Overview of family violence, including medical, physical, and emotional abuse and neglect of target at-risk groups. Focus is on developing an interdisciplinary perspective for understanding causation and treatment issues. Dynamics of the problem are explored from the perspectives of various theorists. Emphasis is on the development of increased personal self-awareness to the complexity of feelings and issues in family violence and on the relationship of nursing to social work, justice, and corrections in the context of domestic violence programs.

NS A428 Nursing the Chemically Dependent Client 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.

In-depth study of the psychopharmacologic and sociocultural effects of chemical dependency. Students learn to utilize the nursing process to design strategies for the nursing management of chemically dependent client systems. Clinical experiences include participant observation in a variety of settings where chemically dependent clients are commonly encountered.

NS A429 Perioperative Nursing 3 CR

Contact Hours: 1.5 + 4.5

Registration Restrictions: Grade of C or better in all required NS 300-level clinical courses or 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

Registration Restrictions: Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska.

Special Fees.

Rural health care analyzed from a problem solving framework. Specific issues to be addressed include: historical perspectives of rural health care; behavioral, cultural, and environmental factors affecting health; access to and utilization of health care systems; responsibility for rural health care policy; and strategies for improving rural health. Alaskan communities are utilized as a focus for the clinical portion of the course.

NS A431 Human Sexuality in Health and Illness 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.

Explores physiological, psychological and social nature of human sexuality and implications for nursing profession. Emphasizes individual and group sexual behavior. Explores impact of illness on sexuality and role of professional nurse.

NS A432 Political Action in Nursing and Health Care 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.

An exploration of the political process on the local, state, and national levels as it relates to nursing practice and health care issues. Includes analysis of political strategies that can be applied in professional nursing practice to support effectiveness in meeting client advocacy responsibilities.

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 A436 Home Health Nursing 3 CR
 Contact Hours: 2 + 3
 Registration Restrictions: Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska.
 Application of medical surgical, psychiatric, and community nursing knowledge and skill to the nursing management of health disrupted clients requiring nursing services in home settings.

NS A438 Managed Care: Issues and Practice 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.

The role of the nurse in interdisciplinary practice of managed care to include case management and home health environments. Issues to include ethics, economics, accountability, and health care reforms. The historical and social evolution of managed care, including regulatory, legislative, financial, and sociocultural considerations. Practice in computer applications for health care information systems.

NS A440 Nursing Honors I: Project Exploration 1 CR
 Contact Hours: .5 + 1.5
 Prerequisites: NS A400 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 A601 Advanced Pathophysiology 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: Graduate standing or faculty permission required.
 Special Fees.

Critical review and analysis of disease processes and resulting abnormal functioning across the life span. A case study approach is used to foster refinement of critical thinking in interpreting pathophysiologic changes that result in clinical manifestations indicative of illness.

NS A602 Advanced Health Assessment in Primary Care 3 CR
 Contact Hours: 2 + 3
 Registration Restrictions: RN license in the state of Alaska; undergraduate level in health and physical assessment.
 Special Fees.

Designed to provide a systematic approach to advanced assessment of physical, sociocultural, developmental, and spiritual aspects of individuals across the life span. The course 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
 Registration Restrictions: Current Licensure to practice as a Registered Nurse in the State of Alaska.
 Special Fees.
 Special Note: Offered Spring Semesters.

An advanced level pharmacology course that assists health care professionals in the selecting, prescribing, and monitoring of pharmaceutical agents utilized in the primary care setting in the community. 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 A620 Nursing Research Methods 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: Graduate standing, grade of C or better in undergraduate research course, and basic statistics course.
 Special Fees.
 Special Note: Offered Alternate Spring Semesters.

Principles of the research process including nursing research problem identification, literature review, development of conceptual framework, research design, sampling and data collection methods, data analysis, and proposal writing. Enhancement of skills for evaluation of nursing research. Focus on planning of Master's degree research in nursing.

NS A621 Knowledge Development for Advanced Nursing Practice 4 CR

Contact Hours: 4 + 0
 Registration Restrictions: Graduate standing or faculty permission required.
 Special Fees.
 Special Note: Offered Fall Semesters.

Development of a community of learners through the integration of theory from nursing and other disciplines to describe and explain human responses in health and illness. Theories will be critically analyzed for adequacy of conceptualization, measurement, and application. Selected theories to be covered vary and include theories about adaptation, illness prevention, health promotion, and change in relation to individuals, families, and groups.

NS A623 Transcultural Nursing in a Multicultural World 3 CR
 Contact Hours: 3 + 0

Registration Restrictions: Current RN Licensure in State of Alaska.

Critique of transcultural nursing concepts and theory for utilization in the provision of culturally sensitive nursing care and health education with individuals, families, and groups from diverse cultural populations within society. Cultural beliefs and values that influence definitions of behaviors related to health and illness will be explored. The effect of culture on the acquisition and integration of new knowledge to facilitate movement toward a health promoting lifestyle will be emphasized. Additional theoretical focuses from the social sciences, particularly anthropology, will be analyzed for their application in a culturally sensitive approach to nursing care.

NS A624 Qualitative Research in Nursing 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Special Fees.

Focus on qualitative approach in gaining nursing knowledge. Broad range of topics including case study, content analysis, participant and nonparticipant observation, open-ended interviews, document study, and an introduction to "Grounded theory" methods. Students will be required to select one method for in-depth exploration.

NS A625 Biostatistics for Health Professionals 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Undergraduate statistics course with grade of C or better and graduate standing.

Crosslisted with: HS A625.

Special Note: Offered Alternate Spring Semesters.

Principles of statistical reasoning and quantitative skills for analyzing health-related 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 clinical practice and 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: (NS A625 or concurrent enrollment).

Registration Restrictions: Graduate Standing.

Grade Mode: Pass/No Pass.

Crosslisted with: HS A625L.

Special Fees.

Elective computer laboratory to teach statistical computer packages to use in performing statistical data analysis.

NS A626 Principles of Epidemiology 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate standing or faculty permission.

Crosslisted with: HS A626.

Special Fees.

Introduces students to the principles and methods of epidemiological investigation of common national and state public health problems, ranging from infectious and noninfectious diseases to social, behavioral, and environmental concerns. Discusses different types of epidemiological study design, and explores past and present trends in epidemiology, giving special attention to epidemiological issues in Alaska and the northern regions. Clinical application within health care administration, nursing, social work, and public health are emphasized.

NS A631 Family Nurse Practitioner 2 CR
Focus on Women's Health and Obstetrics I
 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 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 2 CR
Focus on Pediatrics I

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; advanced nurse practitioner license in Alaska with certification as a women's health nurse practitioner.

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 and prevention.

NS A635 Family Nurse Practitioner 2 CR
Focus on Women's Health and Obstetrics II

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 Alaska with certification as a pediatric nurse practitioner. Current immunization per SON policy; current CPR certification; individual malpractice insurance 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 2 CR
Focus on Pediatrics II

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 Alaska with certification as a women's health nurse practitioner. Current immunization per SON policy; current CPR certification; individual malpractice insurance 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 A642 Professional Nursing in Perspective 3 CR

Contact Hours: 3 + 0
 Registration Restrictions: Graduate Standing.
 Special Fees.
 Special Note: Offered Fall Semesters.

Processes for development of new roles for the advanced nurse specialist. Current and changing patterns of health care delivery and theoretical frameworks from various social science sources are used. Examples of issues discussed include practice arrangements, legal and ethical questions, marketing of nursing services and establishing support networks.

NS A645 Healing in Health and Illness: 3 CR
Complementary/Alternative Models

Contact Hours: 3 + 0
 Registration Restrictions: Graduate standing or instructor permission required.
 Concepts and processes of human health, illness, and healing. Subjective experiences, various philosophies, theoretical perspectives, research findings, traditional and emerging models of complementary healing will be critically reviewed. Health, viewed from a holistic perspective, will afford students opportunities to explore the wide diversity of traditional and contemporary healing arts.

NS A650 Advanced Community Health Nursing I 4 CR

Contact Hours: 2 + 8
 Registration Restrictions: Graduate standing.
 Special Note: Offered as Demand Warrants.

Nursing assessment and diagnostic skills using a population-based perspective. The identification of existing and potential health problems of families and populations are emphasized. The application and synthesis of basic public health sciences is initiated. History, trends, and issues within community and public health nursing are reviewed. A series of field and laboratory experiences in health assessment permit the student to work in various community nursing agencies to apply assessment skills.

NS A651 Advanced Community Health Nursing II 4 CR

Contact Hours: 2 + 8
 Prerequisites: NS A650.
 Special Note: Offered as Demand Warrants.

The planning and delivery of nursing activities that improve the health of population groups. The concepts of change, diffusion of innovation, and strategic planning are applied to health behavior and public policy decisions that promote, maintain and protect the public's health.

NS A652 Advanced Community Health Nursing III 4 CR

Contact Hours: 2 + 8
 Prerequisites: NS A650 and NS A651.
 Special Note: Offered as Demand Warrants.

The evaluation of nursing and health care activities from a population perspective. Students are given opportunities to understand the scientific basis of evaluation and evaluation research as applied to nursing programs that promote, protect, and maintain public health. A series of field projects, case studies, and lectures provide experience related to cost benefit and cost effectiveness analysis, quality assurance methods, judging the efficacy of treatments, and the design of evaluation programs in community and public health nursing.

NS A656 Grant Writing for Health Professionals 1 CR

Contact Hours: 1 + 0
 Registration Restrictions: Graduate Standing.
 Special Note: Offered as Demand Warrants.

Comprehensive overview of grant writing process. Course provides opportunity to conduct funding search and develop a health services proposal.

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
 Registration Restrictions: Enrollment in a graduate degree or certificate program in the School of Nursing. Graduate standing. 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.

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 or 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 method 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.

NS A662 Family Nurse Practitioner III 5/6 CR
 Contact Hours: 2 or 12+16
 Prerequisites: NS A660 and NS A661.
 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.
 Special Fees.
 Special Note: For Post-Master's Certificate students, licensure for advanced practice nurse in Alaska is required.

Continued preparation for advanced nursing practice. Assessment, diagnosis, and treatment or referral of clients with disorders of the cardiovascular, endocrine, gastrointestinal, integumentary, and neurological systems. Recognition and management of severe infections and chronic disease. Emphasis on care of clients through the life span.

NS A663 Family Nurse Practitioner IV 5/6 CR
 Contact Hours: 2 or 12+16
 Prerequisites: NS A660 and NS A661 and NS A662.
 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.
 Special Fees.
 Special Note: For Post-Master's Certificate students, licensure for advanced practice nurse in Alaska is required.

Integration and synthesis of knowledge and skill competencies requisite to advanced professional nursing practice. Provides intensive practice in an expanded role under preceptor supervision at appropriate clinical sites. Includes seminar on campus.

NS A670 Advanced Psychiatric/Mental Health Nursing I 5 CR
 Contact Hours: 4 + 4
 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. 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.

Introduces the role of the advanced practice psychiatric-mental health nurse within a biopsychosocial perspective of mental health and illness. Attention is given to interpersonal dynamics and behavior as basic processes by which therapeutic alliances, assessments, and interventions occur. Focuses on clinical reasoning and decision-making processes involved in preventing, diagnosing, and managing emotional, behavioral and/or functional impairments associated with psychopathology and mental disorders in individuals across the life span. Examines the theory and research on prevailing treatment modalities and evaluates their effectiveness in achieving desired clinical outcomes.

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.
 Special Fees.
 Special Note: For Post Master's Certificate students, licensure for advanced practice nurse in Alaska is required.

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 groups and families. 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.
 Special Fees.

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 A699 Thesis 2-3 CR
 Contact Hours: 2-3 + 0
 Prerequisites: NS A620.
 Registration Restrictions: Graduate standing.
 Grade Mode: Pass/No Pass.
 Special Fees.

Special Note: Offered Fall and Spring Semesters.

Under the guidance of the thesis advisor and in conjunction with thesis committee, student develops, refines and implements a research proposal.

NURSING - PRACTICAL NURSING - NUPN

*Offered through the College of Health & Social Welfare
 Professional Studies Building (PSB), Room 103, 786-4550
<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 Nursing 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. 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 A115 with minimum grade of C and NUPN A110L with minimum grade of P and NUPN A112L with minimum grade of P and NUPN A113L 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 A115 with minimum grade of C and NUPN A110L with minimum grade of P and NUPN A112L with minimum grade of P and NUPN A113L with minimum grade of P. Registration Restrictions: Admission to 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.		

NURSING - NURS

*Offered through the College of Health & Social Welfare
Professional Studies Building (PSB), Room 110, 786-4582
<http://nursing.uaa.alaska.edu>*

NURS A101	Nursing Process	2 CR
Contact Hours: 1 + 2 Special Fees. Introduction to nursing process as systematic approach to identifying patient problems and providing 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). Corequisite: NURS A120L. Special Note: Offered Fall Semesters. Teaches fundamental skills and principles underlying nursing interventions. Nursing process is taught as a method to identify and meet each patient's basic nursing care needs which are prioritized according to Maslow's Hierarchy of Needs. Focus is on predicted responses in the health state; concepts related to health disruptions are introduced. Additional emphasis is placed on assessment for special needs according to developmental level. Admission to the associate of applied science in nursing program (clinical major).		

NURS A120L	Nursing Fundamentals Lab	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). Corequisite: NURS A120. Grade Mode: Pass/No Pass. Special Fees. Special Note: Offered Fall Semesters. Provides laboratory and clinical experiences to reinforce student learning in NURS A120.		
NURS A125	Adult Nursing I	3 CR
Contact Hours: 3 + 0 Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and ENGL A111 with minimum grade of C and BIOL A111 with minimum grade of C and PSY A150 with minimum grade of C and (NURS A125L with minimum grade of C or concurrent enrollment) and (NURS A180 with minimum grade of C or concurrent enrollment) and (BIOL A112 with minimum grade of C or concurrent enrollment) and (BIOL A240 with minimum grade of C or concurrent enrollment). Special Note: Offered Spring Semesters. Introduction to nursing care of ill adults. Builds upon knowledge gained in nursing fundamentals. Students learn pathophysiology, treatment options, and nursing care for adult patients with health problems that require some alteration in lifestyle to enable performance of activities of daily living.		
NURS A125L	Adult Nursing I Lab	4 CR
Contact Hours: 0 + 12 Prerequisites: (NURS A180 with minimum grade of C or concurrent enrollment) and (BIOL A112 with minimum grade of C or concurrent enrollment) and (BIOL A240 with minimum grade of C or concurrent enrollment). Corequisite: NURS A125. Grade Mode: Pass/No Pass. Special Fees. Special Note: Offered Spring Semesters. Provides laboratory and clinical experiences to reinforce student learning in NURS 125.		
NURS A180	Basic Nursing Pharmacology	3 CR
Contact Hours: 3 + 0 Prerequisites: (NURS A125 with minimum grade of C or concurrent enrollment) and (NURS A125L with minimum grade of C or concurrent enrollment) 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 PSY A150 with minimum grade of C and BIOL A111 with minimum grade of C and NURS A120 with minimum grade of C. Special Fees. Special Note: Offered Spring Semesters. Introduction to drug therapy. Emphasis on basic pharmacology principles, drug action, correct dosages, methods of administration, and evaluation of patient response. Nursing process is used to identify priorities for care of patients receiving specific medications.		
NURS A220	Perinatal Nursing	2 CR
Contact Hours: 2 + 0 Prerequisites: NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C. Corequisite: DN A203, NURS A220L, NURS A221, NURS A222 and NURS A222L. Special Note: Offered Fall Semesters. Teaches utilization of the nursing process in providing nursing care for the patient experiencing pregnancy and childbirth and for the neonate, along the health-illness continuum. Ranges from normal, low risk perinatal care to high risk complications of the perinatal patient and family. Covers antepartal, intrapartal, postpartal and neonatal care.		
NURS A220L	Perinatal Nursing Lab	2 CR
Contact Hours: 0 + 6 Corequisite: DN A203, NURS A220, NURS A221, NURS A222 and NURS A222L. Grade Mode: Pass/No Pass. Special Fees. Special Note: Offered Fall Semesters. Provides laboratory and clinical experiences to reinforce student learning in NURS A220.		

NURS A221	Advanced Parenteral Therapy Lab	1 CR
Contact Hours: 0 + 3 Corequisite: DN A203, NURS A220, NURS A220L, NURS A222 and NURS A222L. Grade Mode: Pass/No Pass. Special Fees. Special Note: Offered Fall Semesters. Advanced concepts in the therapeutic intervention and management of fluids administered via the parenteral route. Theoretical content and psychomotor skills related to intravenous therapy. Applicable to multiple patient care settings. Builds on prior content in the areas of IV therapy, nutritional support, and pain management.		
NURS A222	Pediatric Nursing	2 CR
Contact Hours: 2 + 0 Corequisite: DN A203, NURS A220, NURS A220L, NURS A221 and NURS A222L. Special Note: Offered Fall Semesters. Designed to teach utilization of the nursing process and theories of growth and development as a framework for providing nursing care and fostering health promotion for infants, children, and adolescents and their families. Focus on normal growth and maturation and on acute and chronic alterations of health and development.		
NURS A222L	Pediatric Nursing Lab	2 CR
Contact Hours: 0 + 6 Corequisite: DN A203, NURS A220, NURS A220L, NURS A221 and NURS A222. Grade Mode: Pass/No Pass. Special Fees. Special Note: Offered Fall Semesters. Provides laboratory and clinical experiences to reinforce student learning in NURS A222.		
NURS A225	Adult Nursing II	3 CR
Contact Hours: 3 + 0 Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and ENGL A111 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 BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and PSY A150 with minimum grade of C and DN A203 with minimum grade of C. Registration Restrictions: Complete one social science elective. Corequisite: NURS A225L, NURS A250, NURS A250L and NURS A255. Special Note: Offered Spring Semesters. Builds upon prior theoretical content and psychomotor skills from previous nursing courses. The nursing process continues to be used as students expand their knowledge of pathophysiology and provide care for adult medical-surgical patients with acute, complex and life-threatening disorders.		
NURS A225L	Adult Nursing II Lab	3 CR
Contact Hours: 0 + 9 Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and ENGL A111 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 BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and PSY A150 with minimum grade of C and DN A203 with minimum grade of C. Registration Restrictions: Complete one social science elective. Corequisite: NURS A225, NURS A250, NURS A250L and NURS A255. Grade Mode: Pass/No Pass. Special Fees. Special Note: Offered Spring Semesters. Provides laboratory and clinical experience to reinforce student learning in NURS 225.		

NURS A250	Psychiatric Nursing	2 CR
Contact Hours: 2 + 0		
Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and ENGL A111 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 BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and PSY A150 with minimum grade of C and DN A203 with minimum grade of C.		
Registration Restrictions: Complete one social science elective.		
Corequisite: NURS A225, NURS A225L, NURS A250L and NURS A255.		
Special Note: Offered Spring Semesters.		
Designed to teach psychodynamics of the major mental illnesses and principles of psychiatric nursing. Emphasis placed on application of the nursing process utilizing nursing principles to care for inpatients at all developmental levels. Students adapt communication skills to facilitate therapeutic interventions with patients experiencing mental illness.		
NURS A250L	Psychiatric Nursing Lab	2 CR
Contact Hours: 0 + 6		
Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and ENGL A111 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 BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and PSY A150 with minimum grade of C and DN A203 with minimum grade of C.		
Registration Restrictions: Complete one social science elective.		
Corequisite: NURS A225, NURS A225L, NURS A250 and NURS A255.		
Grade Mode: Pass/No Pass.		
Special Fees.		
Special Note: Offered Spring Semesters.		
Provides laboratory and clinical experiences to reinforce student learning in NURS 250.		
NURS A255	Staff Nurse: Legal, Ethical, and Organizational Issues	1 CR
Contact Hours: 2 + 0		
Prerequisites: NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and DN A203 with minimum grade of C and (NURS A225 with minimum grade of C or concurrent enrollment) and (NURS A225L with minimum grade of C or concurrent enrollment) and (NURS A250 with minimum grade of C or concurrent enrollment) and (NURS A250L with minimum grade of C or concurrent enrollment).		
Special Fees.		
Special Note: Offered Spring Semesters.		
Introductory seminar on application of the nursing process to legal, ethical, and organizational dilemmas encountered in daily nursing practice. Includes consideration of the role of staff nurse within the organization; students develop knowledge necessary to function effectively in the staff nurse role as a member of the nursing and health care teams. Legal limits of nursing practice and trends in the regulation of nursing practice are discussed.		
NURS A295	Intensive Clinical Practicum	2 CR
Contact Hours: 4 + 64		
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.		
Registration Restrictions: Good physical health.		
Grade Mode: Pass/No Pass.		
Special Fees.		
Special Note: Two-week duration. 32 hours per week with preceptor and 2 hours per week in seminar. Some lifting may be required.		
Concentrated clinical work to familiarize graduating nurses with clinical registered nurse responsibilities.		

OCCUPATIONAL SAFETY AND HEALTH - OSH

Offered through the Community & Technical College

University Center (UC) 130, 786-6423

<http://osh.uaa.alaska.edu/>

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	2 CR
Contact Hours: 2 + 0		
Prerequisites: OSH A110.		
Discusses the role of safety in the business community. Emphasizes philosophy of safety and health efforts by management. Examines the role of the safety manager and the types of and need for accurate record keeping.		
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.		

PUBLIC ADMINISTRATION - PADM

*Offered through the College of Business & Public Policy
Business Education Building (BEB), Room 309, 786-4100
www.cbpp.uaa.alaska.edu*

Students taking any ACCT, BA, CIS, ECON, 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 annotated. Does not apply to Eagle River.

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 Fall 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

Reviews literature and principles of alternative dispute resolution. Focuses on negotiation and mediation as ways to resolve individual conflicts, group conflicts and public disputes.

PADM A659 Public Administration Capstone 3 CR

Contact Hours: 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 A671 Selected Topics in Public Administration 1-3 CR

Contact Hours: 1-3 + 0

Registration Restrictions: Faculty permission.

Special Fees.

Analysis of selected public administration issues. Topics will be announced in the published class schedule.

PARALEGAL STUDIES - PARL

*Offered through the College of Health & Social Welfare
Social Sciences Building (SSB), Room 306, 786-1810
<http://justice.uaa.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 vocabulary, federal and state court systems, and judicial decision making. Study of basic concepts in contracts, torts, family law, criminal law, and property. Includes 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. Scene investigation and recording, collection and preservation of physical evidence and scientific aids. Sources of information, interviews, follow-up and case preparation.

PARL A236 Contact Hours: 1 + 0 Prerequisites: PARL A101 and PARL A215. Special Note: Offered Spring Semesters. 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.	Ethics and Paralegals	1 CR
PARL A238 Contact Hours: 3 + 0 Prerequisites: PARL A101. Special Note: Offered Spring Semesters. Introduction to procedural concepts of civil litigation with an emphasis on jurisdiction, venue, service of process, parties, pleading and discovery, trial processes, 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.	Civil Procedure	3 CR
PARL A256 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. Special Note: Strong writing background required. Offered Fall Semesters. Intensive introduction to legal research tools and techniques, including retrieval of case and statutory authority, use of encyclopedias, legal periodicals, treatises and other secondary authority, proper case citation form, use of computerized research and drafting of legal memoranda.	Legal Research I	3 CR
PARL A340 Contact Hours: 3 + 0 Prerequisites: JUST A110 or PARL A101. Crosslisted with: JUST A340. 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.	Family Law	3 CR
PARL A352 Contact Hours: 3 + 0 Prerequisites: JUST A110 or PARL A101. Crosslisted with: JUST A352. Special Note: Offered Fall Semesters. 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.	Substantive Criminal Law	3 CR
PARL A354 Contact Hours: 3 + 0 Prerequisites: PARL A101 or JUST A110. Crosslisted with: JUST A354. Special Note: Offered Spring Semesters. 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.	Criminal Procedure	3 CR
PARL A362 Contact Hours: 3 + 0 Prerequisites: PARL A101. Special Note: Offered Spring Semesters. Commercial law constitutes a study of the paralegal's role in a commercial practice with emphasis on such topics as contracts, remedies, bankruptcy, business formation and organization.	Commercial Law	3 CR
PARL A375 Contact Hours: 3 + 0 Prerequisites: PARL A238. Registration Restrictions: Legal Research I recommended. Special Fees. 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.	Litigation	3 CR

PARL A456 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] and PARL A256. Special Fees. Special Note: Requires knowledge of basic legal research techniques and the uniform system of citation, and use of computerized legal research. Offered Spring Semesters. 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.	Advanced Legal Analysis and Writing	4 CR
PARL A470 Contact Hours: 3 + 0 Prerequisites: PARL A101. Special Note: Offered Fall Semesters. Administrative law and procedure in the context of federal, state and local agencies operating in Alaska. Includes consideration of unfair competition and anti-trust law from the perspective of the businessman and consumer.	Law of Government Regulation	3 CR

PHYSICAL EDUCATION - PE

*Offered through the Community & Technical College
Eugene Short Hall (ESH), Room 125, 786-4083
<http://ctc.uaa.alaska.edu/>*

PE A100 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.	Introduction to Health, Physical Education, and Recreation	3 CR
PE A103 Contact Hours: .5 + 1 Special Fees. Introduces the basic skills and knowledge associated with playing basketball. Applies basic principles of basketball through active participation.	Beginning Basketball	1 CR
PE A104 Contact Hours: .5 + 1 Special Fees. Introduces the basic skills and knowledge associated with playing soccer. Applies basic principles of soccer through active participation.	Beginning Soccer	1 CR
PE A105 Contact Hours: .5 + 1 Special Fees. Introduces the basic skills and knowledge associated with playing hockey. Applies basic principles of hockey through active participation.	Beginning Hockey	1 CR
PE A106 Contact Hours: .5 + 1 Special Fees. Introduces the basic skills and knowledge associated with playing volleyball. Applies basic principles of volleyball through active participation.	Beginning Volleyball	1 CR
PE A107 Contact Hours: .5 + 1 Special Fees. Introduces basic skills and knowledge to play singles and doubles tennis. Applies basic principles of tennis through active participation.	Beginning Tennis	1 CR
PE A108 Contact Hours: .5 + 1 Special Fees. Introduces the basic skills and knowledge associate with playing racquetball. Applies basic principles of racquetball through active participation.	Beginning Racquetball	1 CR
PE A109 Contact Hours: .5 + 1 Special Fees. Introduces the basic skills and knowledge associated with in-line skating. Applies basic principles of in-line skating through active participation.	Beginning In-Line Skating	1 CR
PE A110 Contact Hours: .5 + 1 Special Fees. Introduces the basic skills and knowledge associated with ice skating. Applies basic principles of skating though active participation.	Beginning Ice Skating	1 CR

PE A111	Beginning Golf	1 CR
Contact Hours: .5 + 1 Special Fees. Introduces the basic skills and knowledge associated with playing golf. Applies basic principles of golf through active participation.		
PE A112	Beginning Bowling	1 CR
Contact Hours: .5 + 1 Special Fees. Introduces the basic skills and knowledge associated with bowling. Applies basic principles of bowling through active participation.		
PE A115	Beginning Swimming	1 CR
Contact Hours: .5 + 1 Special Fees. Introduces proper breathing technique and basic strokes for those with little or no swimming background. Emphasizes personal water safety.		
PE A118	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.		
PE A119	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.		
PE A120	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.		
PE A121	Soft Aerobics	1 CR
Contact Hours: .5 + 1 Special Fees. Introduces key concepts related to lifetime personal fitness. Presents a variety of beginning 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.		
PE A122	Aerobics	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A121. Special Fees. Introduces key concepts related to lifetime personal fitness. Presents a variety of intermediate intensity aerobic exercise routines such as step aerobics, lateral training, circuit training, and interval training for improved physical fitness.		
PE A123	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.		
PE A124	Country Western Workout	1 CR
Contact Hours: .5 + 1 Special Fees. Introduces country line dancing as an effective way to improve cardiorespiratory fitness and muscular endurance. Covers basic dance terminology and conditioning exercises for specific muscles.		
PE A125	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.		
PE A126	Shape Up with Weights	1 CR
Contact Hours: .5 + 1 Special Fees. Introduces key concepts related to lifetime personal fitness. Presents weight room resistance exercises to tone and condition major muscle groups. Introduces total program planning, including cardiorespiratory training, flexibility exercises, and healthy nutritional practices.		

PE A127	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.		
PE A128	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.		
PE A129	Aerobic Kickboxing	1 CR
Contact Hours: .5 + 1 Special Fees. Presents the fundamentals of intermediate intensity kickboxing, martial arts-based aerobics, and interval training for improved physical fitness.		
PE A130	Beginning Yoga	1 CR
Contact Hours: .5 + 1 Special Fees. Introduces Kundalini Yoga physical exercises, breathing techniques, and relaxation exercises.		
PE A131	Yoga for Runners and Skiers	1 CR
Contact Hours: .5 + 1 Special Fees. Introduces Kundalini Yoga physical exercises, breathing techniques, and relaxation exercises designed for recreational and competitive walkers, runners, and cross country skiers. Presents stretching, strengthening, breath control, and mental conditioning exercises for improved performance and enjoyment.		
PE A132	Beginning Tai Chi	1 CR
Contact Hours: .5 + 1 Special Fees. Introduces Chen Style Tai Chi exercises designed for improved health, tranquility, energy, and strength.		
PE A133	Beginning Karate	1 CR
Contact Hours: .5 + 1 Special Fees. Introduces Karate philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.		
PE A134	Beginning Kung Fu	1 CR
Contact Hours: .5 + 1 Special Fees. Introduces Northern Shaolin Kung Fu philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.		
PE A135	Beginning Kendo	1 CR
Contact Hours: .5 + 1 Special Fees. Introduces Kendo, the art of Japanese fencing. Training and discipline on the physical, mental, and spiritual levels will be covered.		
PE A136	Beginning Tae Kwon Do	1 CR
Contact Hours: .5 + 1 Special Fees. Introduces Tae Kwon Do philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual level will be covered.		
PE A137	Wing Tsun for Self-Defense	1 CR
Contact Hours: .5 + 1 Special Fees. 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.		
PE A140	Introduction to Fitness Leadership	3 CR
Contact Hours: 3 + 0 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.		
PE A141	Techniques in Fitness Instruction 1	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.		

PE A142	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.		
PE A145	Principles of Health and Physical Activity	2 CR
Contact Hours: 1 + 2 Special Fees.		
Examines key concepts associated with health and physical activity. Presents a variety of topics and activities for evaluation of personal health and wellness and strategies for making positive behavior changes. Combines lecture and lab activities.		
PE A160	Introduction to Coaching	2 CR
Contact Hours: 2 + 0 Special Fees.		
Introduces how to develop a successful coaching philosophy, physical training programs, strategies for teaching sport skills, and communication and motivational techniques. Develops coaching skills required to manage equipment, facilities, schedules, and other team logistics.		
PE A161	Sport First Aid	1 CR
Contact Hours: 1 + 0 Special Fees.		
Special Note: Successful completion provides students with national certification in Sport Safety and CPR.		
Introduces basic knowledge of sport injuries, including identifying common sport injuries and administering appropriate sport first aid.		
PE A203	Intermediate Basketball	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A103. Special Fees.		
Emphasizes game strategy and develops intermediate and advanced basketball skills. Applies offensive and defensive strategies of basketball through active participation.		
PE A204	Intermediate Soccer	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A104. Special Fees.		
Emphasizes game strategy and develops intermediate and advanced soccer skills. Applies offensive and defensive strategies of soccer through active participation.		
PE A205	Intermediate Hockey	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A105. Special Fees.		
Develops intermediate level power skating techniques and hockey skills. Applies defensive and offensive strategies and tactics.		
PE A206	Intermediate Volleyball	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A106. Special Fees.		
Emphasizes game strategy and develops intermediate and advanced volleyball skills. Applies offensive and defensive strategies of volleyball through active participation.		
PE A207	Intermediate Tennis	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A107. Special Fees.		
Emphasizes game strategy and develops intermediate tennis skills. Applies offensive and defensive strategies of tennis through active participation.		
PE A208	Intermediate Racquetball	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A108. Special Fees.		
Emphasizes game strategy and develops intermediate racquetball skills. Applies offensive and defensive strategies of racquetball through active participation.		
PE A209	Intermediate In-Line Skating	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A109. Special Fees.		
Emphasizes and develops intermediate in-line skating skills and stunts. Applies intermediate level in-line skating skills through active participation.		

PE A210	Intermediate Ice Skating	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A110. Special Fees.		
Emphasizes and develops intermediate ice skating skills. Applies intermediate principles of ice skating through active participation.		
PE A212	Intermediate Bowling	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A112. Special Fees.		
Emphasizes game strategy and develops intermediate bowling skills. Applies game strategies of bowling through active participation.		
PE A215	Intermediate Swimming	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A115. Special Fees.		
Develops and refines breathing techniques and intermediate swimming strokes and diving. Emphasizes personal water safety.		
PE A216	Swimming Conditioning	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A115. Special Fees.		
Develops and refines swimming skills, physical conditioning, and knowledge of training and competition. Designed for intermediate to competitive level swimmers.		
PE A222	Power Aerobics	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A122. Special Fees.		
Presents key concepts related to lifetime personal fitness. Applies advanced level exercise routines for improved cardiorespiratory fitness, flexibility, and muscular endurance. A wide variety of aerobic exercise routines will be presented, such as step aerobics, lateral training, circuit training, and interval training.		
PE A223	Intermediate Aqua Aerobics	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A123. Special Fees.		
Presents key concepts related to lifetime personal fitness. Applies intermediate level aqua exercise routines for improved cardiorespiratory fitness, flexibility, and muscular endurance. A wide variety of aqua aerobic exercise routines will be presented, such as deep water jogging, aerobics to music, circuit training, and interval training. Designed for swimmers and non-swimmers.		
PE A230	Intermediate Yoga	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A130. Special Fees.		
Presents intermediate level Kundalini Yoga physical exercises, breathing techniques, meditation, and relaxation exercises.		
PE A232	Intermediate Tai Chi	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A132. Special Fees.		
Presents intermediate level Chen Style Tai Chi exercises designed for improved health, tranquility, energy, and strength.		
PE A233	Intermediate Karate	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A133. Special Fees.		
Presents intermediate level Karate principles and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.		
PE A234	Intermediate Kung Fu	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A134. Special Fees.		
Presents intermediate level Northern Shaolin Kung Fu principles and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.		
PE A235	Intermediate Kendo	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A135. Special Fees.		
Presents intermediate level Kendo principles and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.		

PE A236	Intermediate Tae Kwon Do	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A136. Special Fees.		
Presents intermediate level Tae Kwon Do principles and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.		
PE A240	Issues in Fitness Leadership	3 CR
Contact Hours: 3 + 0 Prerequisites: PE A140. Special Fees.		
Presents concepts to personally tailor 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.		
PE A241	Techniques in Fitness Instruction II	2 CR
Contact Hours: 1 + 2 Prerequisites: PE A141. 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.		
PE A242	Techniques in Personal Training II	2 CR
Contact Hours: 1 + 2 Prerequisites: PE A142. Special Fees.		
Examines a wide range of issues related to exerciser's varied needs. Presents techniques for assessment, program implementation, progression, and exercise prescription for general and special populations. Conducted in a classroom and lab setting for hands-on experience.		
PE A243	Techniques in Aqua Fitness Instruction	2 CR
Contact Hours: 1 + 2 Prerequisites: PE A141. Special Fees.		
Examines special considerations for safely instructing an aqua fitness program. 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.		
PE A245	Emergency Water Safety and Lifeguarding	2 CR
Contact Hours: 1 + 2 Prerequisites: PE A115. 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 10 pound brick from 12 feet 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 National Pool and Waterpark Lifeguard License. Includes CPR-First Aid and supplemental oxygen support.		
PE A246	Water Safety Instructor Training	3 CR
Contact Hours: 2 + 2 Prerequisites: PE A115. Special Fees.		
Presents the knowledge and skills necessary for instructor candidates to teach a wide variety of aquatic programs, including water safety courses. Successful completion can result in a WSI Certification.		
PE A250	Advanced Racquetball	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A208. Special Fees.		
Emphasizes game strategy and develops advanced racquetball skills. Applies advanced offensive and defensive strategies of racquetball through active participation.		
PE A252	Advanced Figure Skating	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A210. Special Fees.		
Emphasizes and develops intermediate to advanced figure skating skills. Applies advanced principles of ice skating, program development, and choreography.		
PE A253	Advanced Weight Training	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A126 or PE A127. 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.		

PE A254	Advanced Hockey	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A205. 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.		
PE A255	Strength Training Through Periodization	2 CR
Contact Hours: 1 + 2 Prerequisites: PE A126 or PE A127. 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.		
PE A256	Power Skating	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A110. Special Fees.		
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.		
PE A257	Advanced T'ai Chi	1 CR
Contact Hours: .5 + 1 Prerequisites: PE A132 and PE A232.		
Instruction and guided practice in advanced T'ai Chi Ch'uan Yang Long form. Focuses in exercises for the improvement of health, muscle endurance, energy, and relaxation.		
PE A260	Citizenship and Ethics in Sports	1 CR
Contact Hours: 1 + 0 Special Fees.		
Emphasizes the role of the coach in building character, good sportsmanship, and positive values in athletes. Covers teachable moments, positive communication, and teamwork.		
PE A261	Drugs and Sport	1 CR
Contact Hours: 1 + 0 Special Fees.		
Emphasizes the role of the coach in preventing tobacco, alcohol, and other drug use among athletes. Covers how to communicate effective substance abuse prevention messages and respond to athletes who exhibit symptoms of concern.		
PE A263	Coaching Basketball	2 CR
Contact Hours: 1.5 + 1 Prerequisites: PE A103. Special Fees.		
Introduces basketball coaching techniques, including developing offensive and defensive positions, skills, and handling game situations.		
PE A264	Coaching Soccer	2 CR
Contact Hours: 1.5 + 1 Prerequisites: PE A104. Special Fees.		
Introduces soccer coaching techniques, including developing offensive and defensive positions and skills, and handling game situations.		
PE A265	Coaching Volleyball	2 CR
Contact Hours: 1.5 + 1 Prerequisites: PE A106. Special Fees.		
Introduces volleyball coaching techniques, including developing offensive and defensive positions and tactics, and handling game situations.		
PE A266	Coaching Hockey	2 CR
Contact Hours: 1.5 + 1 Prerequisites: PE A105. Special Fees.		
Introduces hockey coaching techniques, including developing offensive and defensive positions and tactics, and handling game situations.		
PE A267	Coaching Football	2 CR
Contact Hours: 1.5 + 1		
Introduces football coaching techniques, including developing offensive and defensive positions and tactics, and handling game situations.		
PE A268	Coaching Baseball/Softball	2 CR
Contact Hours: 1.5 + 1 Special Fees.		
Introduces baseball coaching techniques, including developing positions and skills, and handling game situations.		

PE A269	Coaching Track and Field/Running	2 CR
Contact Hours: 1.5 + 1		
Introduces track & field and running coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.		
PE A270	Coaching Skiing	2 CR
Contact Hours: 1.5 + 1		
Special Fees.		
Introduces Nordic and alpine skiing coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.		
PE A271	Coaching Swimming and Diving	2 CR
Contact Hours: 1.5 + 1		
Prerequisites: PE A115.		
Special Fees.		
Introduces swimming and diving coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.		
PE A272	Coaching Gymnastics	2 CR
Contact Hours: 1.5 + 1		
Introduces gymnastics coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.		
PE A273	Coaching Wrestling	2 CR
Contact Hours: 1.5 + 1		
Introduces wrestling coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.		
PE A274	Coaching Figure Skating	2 CR
Contact Hours: 1.5 + 1		
Prerequisites: PE A110.		
Introduces figure skating coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.		
PE A277	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.		
PE A281	Leadership in Activities for Diverse Populations	2 CR
Contact Hours: 1 + 2		
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.		
PE 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, teambuilders, for cognitive development, and for character development. Introduces planning, preparation, props, techniques, leadership, and safety, with an emphasis on facilitation and debriefing.		
PE A283	Leadership in Aquatic Activities	2 CR
Contact Hours: 1 + 2		
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.		
PE 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.		
PE 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.		

PE 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.		
PE 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, rhythmical patterns and movement concepts in a progression from the precontrol to the proficiency level. Demonstrates rhythmical experiences, folk, ethnic or square dances, creative dance, and educational gymnastics. Combines the mastery of movement skills with the artistry of expression.		
PE A289	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 skill in more complex ways, and utilizing offensive and defensive strategies.		
PE A333	Kinesiology and Biomechanics	4 CR
Contact Hours: 3 + 2		
Prerequisites: BIOL A111 and BIOL A112.		
Special Fees.		
Analyzes the structure, function, and mechanics of human movement with an emphasis on exercise, sports, and recreational activities. Includes application-based laboratory experiences.		
PE A344	Movement Theory and Motor Development	3 CR
Contact Hours: 3 + 0		
Prerequisites: PSY A111 or PSY A150.		
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.		
PE A346	Lower Body Injury Assessment Skills	3 CR
Contact Hours: .5 + 7.5		
Prerequisites: PE A277.		
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.		
PE A347	Upper Body Injury Assessment Skills	3 CR
Contact Hours: .5 + 7.5		
Prerequisites: PE A277 and PE A346.		
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.		
PE A366	Cultural and Psychological Aspects of Health and Physical Activity	3 CR
Contact Hours: 3 + 0		
Prerequisites: PSY A111 or PSY A150.		
Emphasizes physical education, health, and leisure activities as a socio-cultural psycho-cultural force. Investigates the dynamic relationship between psychological issues and health behavior adherence and/or physical activity performance. Analyzes the interaction between physical activity and society.		
PE A377	Physiology of Exercise	4 CR
Contact Hours: 3 + 2		
Prerequisites: BIOL A111 and BIOL A112.		
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.		
PE A420	Challenges in Health and Fitness Leadership	1 CR
Contact Hours: 1 + 0		
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.		
PE A430	Health Promotion	2 CR
Contact Hours: 2 + 0		
Focuses on understanding health behaviors and the development of intervention strategies to modify health risk behaviors. Provides a look at various health promotion settings and the role of the health/fitness professional.		

PE A433 Standards and Assessment in Health, Physical Education, and Recreation 3 CR

Contact Hours: 3 + 0

Prerequisites: PE A100.

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.

PE A440 Exercise Testing and Prescription 3 CR

Contact Hours: 2 + 2

Prerequisites: PE A377.

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 designing individual exercise prescriptions based upon their results.

PE A442 Exercise and Aging 3 CR

Contact Hours: 2.5 + 1

Special Note: Recommended for juniors or seniors who have had at least one course in anatomy, physiology, psychology, sociology, or gerontology.

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 implication for the aged individual.

PE A444 Administration and Supervision in Health, Physical Education, and Recreation 3 CR

Contact Hours: 3 + 0

Prerequisites: PE A100.

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.

PE A450 Cardiac Rehabilitation 3 CR

Contact Hours: 2 + 2

Prerequisites: PE A377 and PE A440.

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.

PE A460 Contemporary Personal Health Issues 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Senior status.

Covers contemporary issues related to personal health. Focuses on subjects such as nutrition, fitness, substance abuse, consumer issues, sexual health, emotional health issues. Additional topics will reflect concerns related to personal health.

PE 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; a grade of C or better in all emphasis specific courses; minimum GPA of 2.75; instructor approval; current CPR/First Aid certification; admission to BS in PE; senior status.

Special Note: Special clothing may be required.

Advanced professional experience in an approved position with supervision and training in health and fitness programming.

PETROLEUM TECHNOLOGY - PETR

Offered through Kenai Peninsula College

34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

www.kpc.alaska.edu

PETR A102 Roustabout Training 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Full physical mobility.

Provides entry level knowledge and orientation to work as a roustabout on drilling rigs throughout Alaska. Covers the equipment and tools used, how to service and maintain equipment, the sequence of events that takes place while drilling a well, and how to work safely.

PETR A105 Petroleum Science I 3 CR

Contact Hours: 3 + 0

Prerequisites: MATH A055.

Offered only at Kenai Peninsula College.

Surveys physical and chemical properties of hydrocarbon gases and liquids. Introduces fluid flow processing including head, friction, and fluid power. Introduces basic unit processes such as two-phase and three-phase separation.

PETR A106 Petroleum Science II 3 CR

Contact Hours: 3 + 0

Prerequisites: PETR A105 and [MATH A105 or MATH A101].

Offered only at Kenai Peninsula College.

Basic heat and material as balances encountered in surface processing operations. Applies hydrocarbon properties to specific process material balances. Operation of gas-oil separators, gas dehydration equipment, fired heaters and boilers, and cryogenic natural gas processing.

PETR A120 Surface Oil Field Equipment I 3 CR

Contact Hours: 3 + 0

Offered only at Kenai Peninsula College.

Specializes in oil field equipment and terminology for drilling-related activities.

PETR A121 Surface Oil Field Equipment II 3 CR

Contact Hours: 3 + 0

Prerequisites: PETR A120.

Offered only at Kenai Peninsula College.

Continuation of PETR A120. Emphasizes post-drilling operations such as well stimulation fundamentals, well logging and wireline procedures, knowledge of waterflood and gas lift procedures and equipment. Introduces fishing and directional drilling.

PETR A140 Industrial Process Instrumentation I 3 CR

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.

PETR 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.

PETR A155 Blueprint Reading 3 CR

Contact Hours: 3 + 0

Offered only at Kenai Peninsula College.

Covers basics of reading machine, welding, architectural, instrumentation, hydraulic, and process flow drawings. Includes freehand sketching of simple mechanical and flow diagrams.

PETR A230 Practical Distillation 3 CR

Contact Hours: 3 + 0

Prerequisites: PETR A105 and PETR A140.

Offered only at Kenai Peninsula College.

Practical approach to operation of grass roots distillation operation patterned after a small refinery; includes tower operation and process of fractionating crude oil.

PETR A240 Industrial Process Instrumentation III 3 CR

Contact Hours: 3 + 0

Prerequisites: PETR A144.

Offered only at Kenai Peninsula College.

Study of methods, installation, and identification of proper instruments for use with particular industrial processes, and operation of instrumentation under live load conditions through use of sophisticated process simulators.

PETR A244 Industrial Process Instrumentation IV 3 CR

Contact Hours: 3 + 0

Prerequisites: PETR A240.

Offered only at Kenai Peninsula College.

Explores techniques used in designing and developing control loops. Control loop engineering and developments of loops for maximum efficiency and energy control. Program will develop basic engineering skills.

PHARMACY TECHNOLOGY - PHAR

*Offered through the Community & Technical College
Allied Health Sciences Building (AHS), 786-6940
<http://alliedhealth.uaa.alaska.edu/pharmacytechnology/>*

PHAR A101 Introduction to Pharmacy 3 CR

Contact Hours: 2.5 + 1

Prerequisites: ASSET Numerical Skills with score of 43 and ASSET Reading Skills with score of 40.

Registration Restrictions: Departmental approval.

Special Fees.

Introduces pharmacy practice and the roles and responsibilities of technicians compared to pharmacists in various pharmacy settings. Outlines the history, law and ethics of pharmacy, as well as terminology, symbols, and dosage forms.

PHAR A102 Pharmacy Terminology 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Department approval.

Special Fees.

Provides pharmaceutical language for employment in the pharmacy industry. Introduces word analysis techniques, core medical terms, and essential vocabulary of human health as related to pharmacy. Includes terms within a framework of infant-to-senior health care.

PHAR A103 Pharmacy Law and Ethics 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Departmental approval.

Special Fees.

Surveys federal and state laws governing the practice of pharmacy. Emphasizes legal and ethical constraints governing technician's and pharmacist's responsibilities in various settings.

PHAR A104 Survey of Pharmacotherapeutics I 3 CR

Contact Hours: 3 + 0

Prerequisites: PHAR A102 with minimum grade of C.

Registration Restrictions: Department approval.

Special Fees.

Provides pharmaceutical foundation. Emphasizes efficiency, usage, and comparative value of drug therapy in a variety of conditions affecting human disease processes.

PHAR A105 Pharmacology for Technicians 3 CR

Contact Hours: 3 + 0

Prerequisites: ASSET Numerical Skills with score of 43 and ASSET Reading Skills with score of 40.

Registration Restrictions: Department approval.

Special Fees.

Introduces drug terms, definitions, origins and uses in the systems of the body. Covers factors that affect drug action and adverse reactions. This is part 1 of a 2-part course.

PHAR A106 Professionalism in Pharmacy 2 CR

Contact Hours: 2 + 0

Registration Restrictions: Department approval.

Special Fees.

Addresses professional attitudes and behaviors pertinent to pharmacy technicians. Provides practice in life experience translation and resume writing as well as job interview practice in a supportive environment. Addresses techniques for dealing with patients in pain, diverse cultures, and the elderly. Lays the foundation required for successful practicum experience.

PHAR A107 Pharmacy Dosing Formulae and Concentrations 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Department approval.

Special Fees.

Introduces standardized pharmacy formulae, dosing calculations, and solution concentrations. Provides calculations formulae for commercial pharmacy operations. Provides overview of dosing terminology as well as formula writing.

PHAR A111 Techniques of Pharmacy Practice 3 CR

Contact Hours: 2 + 2

Prerequisites: PHAR A101 with minimum grade of C.

Special Fees.

Provides practical experience to the didactic portion of the Pharmacy Technology curriculum. Covers accepting prescriptions and insurance cards, checking for required information, processing, filling, labeling, and completing patient profiles. Includes compounding, mixing, IV preparation, and sterile techniques.

PHAR A112 Information Technology for Pharmacy Technicians 2 CR

Contact Hours: 2 + 0

Registration Restrictions: Department approval.

Special Fees.

Surveys computer usage in various pharmacy settings. Introduces inputting, compiling, editing, and manipulation of pharmaceutical information systems utilizing various current computer technologies.

PHAR A114 Survey of Pharmacotherapeutics II 3 CR

Contact Hours: 3 + 0

Prerequisites: PHAR A104 with minimum grade of C.

Registration Restrictions: Department approval.

Completes pharmaceutical foundation that is required for jobs in pharmacy industry. Emphasizes efficacy, usage, and comparative value of drug therapy in a variety of conditions affecting human disease processes.

PHAR A115 Pharmacology for Technicians II 3 CR

Contact Hours: 3 + 0

Prerequisites: PHAR A105 with minimum grade of C.

Special Fees.

Continues the introduction of drug terms, definitions, origins, and uses in the systems of the body. Covers factors that affect drug action and adverse reactions. This is part 2 of a 2-part course.

PHAR A195 Pharmacy Practicum 1-7 CR

Contact Hours: 0 + 3-21

Prerequisites: PHAR A101 with minimum grade of C and PHAR A102 with minimum grade of C and PHAR A103 with minimum grade of C and PHAR A107 with minimum grade of C and PHAR A112 with minimum grade of C.

Registration Restrictions: Current immunizations, CPR and First Aid certification, Alaska Pharmacy Technician License. Department approval.

Grade Mode: Pass/No Pass.

Special Fees.

Special Note: Students must repeat this course for a total of 7 credits to receive a Pharmacy Technology certificate.

Provides practical experience in Pharmacy Technology supervised by a pharmacist or technician in a working pharmacy.

PHILOSOPHY - PHIL

*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.

Analyzes argumentation and informal fallacies; introduces deductive logic, and examines inductive evidence in scientific and practical reasoning.

PHIL A201 Introduction to Philosophy 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Humanities Requirement.

Introduces works of influential thinkers, both ancient and modern, in 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.

Introduction to the great thinkers of the Greek, Latin, Medieval, and Renaissance periods in Western civilization. Comparative examination of cosmological, religious, ethical, political, and scientific ideas which shaped each of these epochs.

PHIL A212 History of Philosophy II 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Humanities Requirement.

Introduces great thinkers of the 17th century Scientific Revolution, The Enlightenment, German idealism, contemporary positivism and existentialism. Comparative examination of cosmological, ethical, political, and scientific ideas which shaped each of these periods.

PHIL A231 Truth, Beauty, and Goodness 3 CR

Contact Hours: 3 + 0

Prerequisites: (ENGLA111 or concurrent enrollment).

Crosslisted with: LSIC 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 A301	Ethics	3 CR
Contact Hours: 3 + 0 Course Attributes: UAA GER Humanities Requirement.		
An introduction to the great moral thinkers of Western Civilization and the use of their ethical systems in an attempt to resolve contemporary issues such as abortion, euthanasia, equal rights, civil disobedience, and professional ethics.		
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 Crosslisted 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 A311	Metaphysics and Epistemology	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Junior standing and 6 credits from PHIL A101, PHIL A201, PHIL A211, PHIL A212, or PHIL A301 with a minimum grade of C.		
Focus on the topics of existence, universals and particulars, individuals and classes, change and the persistence of objects and persons, knowledge and belief, internalism and externalism, perception, materialism, truth, and reality.		
PHIL A313A	Eastern Philosophy and Religion	1 CR
Contact Hours: 1 + 0 Registration Restrictions: Recommended: ENGL A111. Grade Mode: Pass/No Pass. Stacked with: PHIL A313B.		
Special Note: One credit requires regular attendance and minimal weekly assignments. Does not satisfy the humanities GER.		
Survey of philosophical-religious traditions of the Far East: Confucian, Taoist, Buddhist (including Zen), and Hindu.		
PHIL A313B	Eastern Philosophy and Religion	3 CR
Contact Hours: 3 + 0 Stacked with: PHIL A313A. Course Attributes: UAA GER Humanities Requirement.		
Survey of philosophical-religious traditions of the Far East: Confucian, Taoist, Buddhist, (including Zen), and Hindu.		
PHIL A314	Western Religion	3 CR
Contact Hours: 3 + 0 Prerequisites: ENGL A111. Course Attributes: UAA GER Humanities Requirement.		
Survey and comparative study of the major religious traditions of the West: Judaism, Christianity, and Islam. Concepts of redemption and revelation, the life of worship, and religious transformation will be stressed.		
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 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.		
A general introduction to the philosophical problems common to the physical, biological, behavioral, and social sciences, focusing on issues concerning method, epistemology, modes of explanation, and the differences between the natural and the human sciences.		
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.		
Registration Restrictions: Junior standing.		
An intensive and detailed study of a topic in contemporary philosophy in a seminar format.		
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.		
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 A495	Service Learning in Applied Ethics	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.		

PHYSICS - PHYS

*Offered through the College of Arts and Sciences
Engineering Building (ENGR), Room 333, 786-1238
<http://hosting.uaa.alaska.edu/ajftp/physics.html>*

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 I for Technicians	4 CR
Contact Hours: 3 + 3		
Prerequisites: MATH A055.		
Exposes students to basic concepts in physics. Presents general knowledge of science rather than an in-depth study of any one field.		
PHYS A116	Physical Science II for Technicians	4 CR
Contact Hours: 3 + 3		
Prerequisites: MATH A055.		
Exposes students to basic concepts in chemistry, astronomy, meteorology, and geology. Presents general knowledge of science rather than an in-depth study of any one field. Material presented to show interrelatedness and interdependence of these scientific fields.		
PHYS A123	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 A123L	Basic Physics I Laboratory	1 CR
Contact Hours: 0 + 3		
Prerequisites: MATH A105 and (PHYS A123 or concurrent enrollment).		
Registration Restrictions: High school trigonometry.		
Course Attributes: UAA GER Natural Sciences.		
Special Fees.		
Introductory physics laboratory, with experiments in mechanics, fluids, and thermodynamics.		
PHYS A124	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 A124L	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 w/Lab.		
Special Fees.		
Introductory physics laboratory, with experiments in thermodynamics, 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 + 3		
Prerequisites: (PHYS A211 with minimum grade of C or concurrent enrollment).		
Registration Restrictions: If PHYS A211 is taken from another institution, it must be completed prior to taking PHYS A211L.		
Course Attributes: UAA GER Natural Sciences w/Lab.		
Special Fees.		
Calculus-based introductory physics laboratory, with experiments in computerized data collection and analysis, mechanics, waves, elasticity, and wave motion.		
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.		
Techniques of problem solving for material covered in PHYS A211. Includes student discussion and presentation of solutions.		
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 A 212 is taken from another institution, it must be completed prior to taking PHYS A212L.		
Course Attributes: UAA GER Natural Sciences w/Lab.		
Special Fees.		
Calculus-based introductory physics laboratory, with experiments in electric and magnetic fields, geometric and physical optics, and light.		
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.		
Techniques of problem solving for material covered in PHYS A212. Includes student discussion and presentation of solutions.		
PHYS A303	Modern Physics	3 CR
Contact Hours: 3 + 0		
Prerequisites: PHYS A212 and MATH A302.		
Introduces modern physics, including special relativity, atomic and molecular physics, electromagnetic radiation, solid-state physics, elementary particles, simple transport theory, kinetic theory, and concepts of quantum mechanics.		
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 A456 Nonlinear Dynamics and Chaos 3 CR

Contact Hours: 3 + 0

Prerequisites: MATH A202 and [PHYS A124 or PHYS A212].

Crosslisted with: BIOL A456 and CHEM A456.

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.

PROJECT MANAGEMENT - PM

*Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900
www.engr.uaa.alaska.edu*

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.

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 process 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 metrics 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.

Advanced communication processes and techniques used to successfully manage the project on time, within budget, and to the satisfaction of the customer. Includes compilation, distribution, storage, and disposing of project information.

PM A624 Project Risk Management 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate level standing.

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.

PARAMEDICAL TECHNOLOGY - PMED

*Offered through the Community & Technical College
Allied Health Sciences (AHS), Room 155, 786-6928
<http://alliedhealth.uaa.alaska.edu/>*

PMED A101 Paramedicine I 8 CR

Contact Hours: 7 + 2

Prerequisites: (PMED A195A or concurrent enrollment).

Registration Restrictions: Acceptance in the Paramedical Technology Program.

Introduces EMS, roles and responsibilities. Emphasizes anatomy and physiology of the circulatory, respiratory, and nervous systems and related rescue procedures.

PMED A105 Paramedicine II 8 CR

Contact Hours: 6 + 4

Prerequisites: PMED A101 and (PMED A195B or concurrent enrollment).

Covers cardiac rhythms, pharmacology, and Advanced Cardiac Life Support.

PMED A120 Paramedicine III 9 CR

Contact Hours: 4 + 10

Prerequisites: PMED A105 and (PMED A195C or concurrent enrollment).

Covers general patient assessment, assessment and management of medical emergencies, and medevac escort.

PMED A195A Clinical Rotation I 4 CR

Contact Hours: 0 + 8

Prerequisites: (PMED A101 or concurrent enrollment).

Grade Mode: Pass/No Pass.

Perform paramedic skills in hospital departments of: emergency, intensive care, and surgery.

PMED A195B Clinical Rotation II 4 CR

Contact Hours: 0 + 8

Prerequisites: (PMED A105 or concurrent enrollment).

Grade Mode: Pass/No Pass.

Perform paramedic skills in hospital departments of: emergency, intensive care, surgery, labor and delivery, pediatrics, and psychiatry.

PMED A195C	Clinical Rotation III	3 CR
Contact Hours: 0 + 6 Prerequisites: (PMED A120 or concurrent enrollment). Grade Mode: Pass/No Pass. Perform paramedic skills in hospital departments of: emergency, intensive care, surgery, labor and delivery, pediatrics, psychiatry, and air ambulance services.		
PMED A295A	Paramedic Internship	12 CR
Contact Hours: 0 + 36 Prerequisites: PMED A120. 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.		
PMED A310	Update in Paramedicine	3 CR
Contact Hours: 2 + 2 Registration Restrictions: Current U.S. Paramedic License. Integrates paramedicine knowledge and techniques with evaluation of applied skills.		

PREPARATORY ENGLISH - PRPE

*Offered through the Community and Technical College
Beatrice McDonald Hall (BMH), Room 121, 786-6856
<http://cpds.uaa.alaska.edu/>*

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 Counseling 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 listening 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 Counseling 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 Prerequisites: ASSET Reading Skills with score of 34. Grade Mode: Pass/No Pass. Special Fees. Presents basic learning strategies. Develops time management, learning styles, textbook study, note taking, and test taking skills.		
PRPE A060	Slingerland I	3 CR
Contact Hours: 3 + 0 Grade Mode: Pass/No Pass. Special Note: Referral or Slingerland Screening Test recommended. These course methods are not effective for students with a visual or hearing impairment or who speak English as a second language at a beginning level. Provides intensive, guided practice in handwriting, spelling, and word attack skills for English speaking students who have specific language processing problems. Uses all learning channels (sight, hearing, and touch) and a phonics-based approach.		
PRPE A062	Multi-Sensory Reading	3 CR
Contact Hours: 3 + 0 Special Fees. Special Note: These course methods are not effective for students with a visual or hearing impairment. Gives instruction and practice in using Slingerland method and Lindamood-Bell visualizing and verbalizing techniques to increase the student's ability to sound out unknown words, extend reading vocabulary, and increase comprehension and retention.		

PRPE A064	Multi-Sensory Grammar/Writing	3 CR
Contact Hours: 3 + 0 Special Fees. Special Note: These course methods are not effective for students with a visual or hearing impairment. Increases ability to write Standard American English by using the Slingerland method to introduce basic grammar and its use in writing. Covers simple parts of speech, word choice, agreement of sentence elements and basic sentence construction.		
PRPE A066	Slingerland II	3 CR
Contact Hours: 3 + 0 Registration Restrictions: PRPE A060 with minimum grade of C or referral based on Slingerland Screening Test. Special Note: Primarily for English speaking students who have specific language processing problems. Referral or Slingerland Screening Test recommended. These course methods are not effective for students with a visual or hearing impairment or who speak English as a second language at a beginning level. May be repeated one time for credit. Improves language/communication skills necessary for successful participation in college coursework through advanced multi-sensory instruction. Emphasizes phonics, organization of English written language, and study skills relevant to curriculum.		
PRPE A072	Individualized Reading Lab	1-3 CR
Contact Hours: 0 + 2-6 Prerequisites: ASSET Reading Skills with score of 30. Grade Mode: Pass/No Pass. Special Fees. Special Note: May be repeated for a maximum of 3 credits. Provides individualized instruction in basic reading skills, text 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. Special Fees. Provides tools for vocabulary growth. Includes word recognition drills, practice exercises, writings, 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 Prerequisites: ASSET Reading Skills with score of 34. 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: ASSET Reading Skills with score of 34. Special Fees. Provides basic strategies for reading comprehension, vocabulary development, and textbook skills necessary for success in freshman college classes.		
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. Provides individualized instruction in basic writing skills for school, work, personal, or creative development.		
PRPE A084	Grammar and Sentence Skills	1-3 CR
Contact Hours: 1-3 + 0 Prerequisites: ASSET Writing Skills with score of 30. Special Fees. Special Note: May be repeated for a maximum of 6 credits. Reviews the basics of effective sentences in Standard American English for college writing.		
PRPE A086	Writing Strategies	3 CR
Contact Hours: 3 + 0 Prerequisites: [ASSET Writing Skills with score of 35 and ASSET Reading Skills with score of 34] or PRPE A084 with minimum grade of C. Registration Restrictions: Minimum score on an English placement test or prerequisite. Special Fees. Introduces composition of paragraphs and short essays that conform to Standard American English for college writing. Emphasizes basic reading skills to enhance students' writing. Reviews the basics of grammar, effective sentences, and sentence combining.		

PRPE A105 Basic College Study Skills 1-3 CR

Contact Hours: 1-3 + 0

Prerequisites: ASSET Reading Skills with score of 39.

Special Fees.

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 Basic College Reading 3 CR

Contact Hours: 3 + 0

Prerequisites: PRPE A076 with minimum grade of C or ASSET Reading Skills with score of 39.

Special Fees.

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 Basic College Writing 3 CR

Contact Hours: 3 + 0

Prerequisites: [ASSET Writing Skills with score of 40 and ASSET Reading Skills with score of 39] or PRPE A086 with minimum grade of C.

Registration Restrictions: Minimum score on English placement test or prerequisite.

Special Fees.

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.

PROCESS TECHNOLOGY - PRT

Offered through Kenai Peninsula College

34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300

www.kpc.alaska.edu**PRT A101 Introduction to Process Technology 3 CR**

Contact Hours: 3 + 0

Introduction to process operations in industry through an overview of general information, processes, procedures, and equipment.

PRT A110 Introduction to Occupational Safety, Health, and Environmental Awareness 3 CR

Contact Hours: 3 + 0

Introduction to the field of safety, health, and environment within the process industry. Covers various types of plant hazards, safety and environmental systems equipment, and applicable government regulations, and industry standards.

PRT A130 Process Technology I: Equipment 4 CR

Contact Hours: 4 + 0

Prerequisites: PRT A101.

In-depth treatment of selected process equipment including rotating machinery and process units. Equipment components, construction, preventive maintenance, and safety will be emphasized.

PRT A140 Industrial Process Instrumentation I 3 CR

Contact Hours: 3 + 0

Prerequisites: MATH A055.

Crosslisted with: PETR A140.

Covers physics of pressure, temperature, level, and flow measurement; 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.

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.

PRT A231 Process Technology III: Operations 4 CR

Contact Hours: 3 + 2

Prerequisites: PRT A230.

Analyzes duties and responsibilities of the process, operator on the job. Includes normal operation, upset conditions, emergency action plans, startups, shutdowns, operating modes, turnarounds, and routine maintenance activities.

PRT A250 Process Troubleshooting 3 CR

Contact Hours: 3 + 0

Prerequisites: PRT A231.

Analyzes the troubleshooting process and studies the use of indicators, variables, and controllers to troubleshoot problems current to the process industries.

PRT A255 Quality Concepts for the Process Industry 1 CR

Contact Hours: 1 + 0

Prerequisites: PRT A231.

Introduction and application of current quality concepts used by the process technician. Discusses the role of statistical processes used by the operator in achieving quality.

PRT A295 Technical Internship 1-6 CR

Contact Hours: 0 + 3-18

Registration Restrictions: Instructor permission and successful completion of 12 credits in the PRT or PETR courses in the Process Technology Program.

Special Fees.

Provides work experience and familiarization with technical operations and equipment. Integrates knowledge and practice to demonstrate skill competencies.

POLITICAL SCIENCE - PS

*Offered through the College of Arts and Sciences**Social Sciences Building (SSB), Room 367, 786-4897*<http://polsci.uaa.alaska.edu/>**PS A101 Introduction to American Government 3 CR**

Contact Hours: 3 + 0

Course Attributes: UAA GER Social Sciences Requirement.

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 A102 Introduction to Political Science 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Social Sciences Requirement.

An introduction to the discipline of political science focusing on the whole realm of political science concepts, political activities, and political processes, worldwide.

PS A201 Topics in Politics 1-3 CR

Contact Hours: 1-3 + 0

Special Note: Subtitle varies; may be repeated for credit with a different subtitle.

A topic of contemporary or continuing interest in Alaska politics, American politics, comparative politics, and/or international relations, treated at the introductory level.

PS A301 Comparative Political Economy 3 CR

Contact Hours: 3 + 0

Prerequisites: PS A101 or PS A102.

The dynamic interaction of politics and economics in a variety of local, national, and international settings. The course considers how power determines the nature of the economic system and how the economic process redistributes power and wealth.

PS A311 Comparative Politics 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Social Sciences Requirement.

A comprehensive introduction and review of this major subfield of the discipline of political science. The subject matter, goals and purposes, concepts, and methods of comparative politics are covered. This course prepares students for comparative analysis of politics.

PS A312 Comparative Politics: Case Studies 3 CR

Contact Hours: 3 + 0

Prerequisites: PS A311.

A detailed analysis and comparison of the political systems of several selected independent, sovereign nation-states. The cases selected for study represent contrasting types of political systems in different regions of the world.

PS A321	International Relations	3 CR
Contact Hours: 3 + 0 Prerequisites: PS A101 or PS A102.		
A comprehensive introduction to the concepts, processes, and structures of international relations. Topics include the international environment, the nation-state system, transnational institutions, diplomacy, and war. Selected contemporary international issues and the state of international organization are also treated.		
PS A322	United States Foreign Policy	3 CR
Contact Hours: 3 + 0 Prerequisites: PS A101 or PS A102.		
A comprehensive introduction to United States foreign policy. Constitutional provisions and the politics of policy making are treated. This course also focuses on contemporary foreign policy problems.		
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 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	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 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 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. Politics and governments of Alaska Natives. Focuses on the history of Native/non-Native relations, contemporary issues and possibilities, and comparative case studies in Canada, Siberia, Greenland, and Scandinavia.		
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 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 relation 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. Special Fees. 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 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 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.	Organization Theory	3 CR
PS A490 Contact Hours: 1-3 + 0 Prerequisites: PS A101 or PS A102. Registration Restrictions: Junior standing. Stacked with: PS A690. 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.	Studies in Politics	1-3 CR
PS A492 Contact Hours: 3 + 0 Registration Restrictions: Senior standing. Examination of a single major problem in the study of politics. The capstone course required of Political Science majors.	Senior Seminar in Politics	3 CR
PS A495 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.	Internship in Political Science	1-3 CR
PS A690 Contact Hours: 1-3 + 0 Prerequisites: PS A101 or PS A102. Stacked with: PS A490. Special Fees. 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.	Studies in Politics	1-3 CR

PSYCHOLOGY - PSY

*Offered through the College of Arts and Sciences
Social Sciences Building (SSB), Room 214, 786-1711
<http://psych.uaa.alaska.edu/>*

PSY A111 Contact Hours: 3 + 0 Course Attributes: UAA GER Social Sciences Requirement. Special Note: Offered Fall and Spring Semesters. Introduces psychology through presentation of outstanding research and theories. Includes physiological, developmental, abnormal perception, motivation, learning, and personality.	General Psychology	3 CR
PSY A112 Contact Hours: 1 + 0 Special Note: May be repeated for a maximum of 3 credits. Presents topics in general psychology. Specific topics to be announced.	Psychology Short Courses	1 CR
PSY A130 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.	Crisis Line/Shelter Advocacy	1 CR
PSY A135 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 advocacy case work, development of techniques of effective interaction with clients, and working knowledge of community resources.	Domestic Violence and Sexual Assault Advocacy Training	1 CR

PSY A143 Contact Hours: 3 + 0 Special Fees. 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.	Death and Dying	3 CR
PSY A150 Contact Hours: 3 + 0 Course Attributes: UAA GER Social Sciences Requirement. Special Note: Offered Fall and Spring Semesters. Reviews physical, cognitive, and socioemotional aspects of human growth, maturation, and development across the life span. Covers prenatal period, infancy, early and middle childhood, adolescence, and early, middle, and late adulthood.	Life Span Development	3 CR
PSY A153 Contact Hours: 3 + 0 Crosslisted with: HUMS A153. Special Fees. A survey of human relations to include communication, problem solving, interaction, relationship, choice and change skills.	Human Relations	3 CR
PSY A168 Contact Hours: 3 + 0 Introduces topics of human sexual functioning including physiology, psychology, sociology, philosophy, and morality of human sexual practices and love.	Human Sexuality	3 CR
PSY A170 Contact Hours: 1 + 0 Special Fees. Study of rational-emotive therapy, general semantics, decision making, and communication theory. Examines how people create neurotic emotions and block effective behavior, and styles of ongoing daily self-counseling.	Rational Living	1 CR
PSY A203 Contact Hours: 3 + 0 Registration Restrictions: One social science course. Offered only at Matanuska-Susitna College. Examines destructive and self-defeating behaviors and attitudes. Explores alternative ways of communicating feelings, beliefs, and opinions honestly, directly, appropriately, and effectively. Assertiveness skills learned through experiences and feedback in class and self-change projects out of class.	Assertiveness Training	3 CR
PSY A230 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.	Psychology of Adjustment	3 CR
PSY A245 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.	Child Development	3 CR
PSY A245L Contact Hours: 0 + 3 Prerequisites: (PSY A245 or concurrent enrollment). Special Fees. Laboratory experience that extends the understanding of cognitive, affective, social, and physical development of children gained from PSY A245, Child Development. Includes field observations of and interactions with children in settings such as daycare centers, schools, and community-based service organizations.	Child Development Laboratory	1 CR
PSY A260 Contact Hours: 3 + 0 Prerequisites: PSY A111 and MATH A105. Special Note: Does not satisfy the General Education Quantitative requirement. Offered Fall and Spring Semesters. Presents basic descriptive and inferential statistical techniques used in psychology. Covers scales of measurement, central tendency, variation, normal distributions, standard scores, correlation, regression, hypothesis testing, parametric and nonparametric tests for independent and dependent groups, one- and two-way analysis of variance.	Statistics for Psychology	3 CR

PSY A261	Research Methods in Psychology	4 CR
Contact Hours: 3 + 3 Prerequisites: PSY A111. Special Fees. Special Note: Offered Fall and Spring Semesters. Introduces and applies the scientific approach to understanding behavior. Explores the foundations of behavioral research, with emphasis on experimental methodology. The laboratory component provides actual examples of data collection, analysis, and interpretation.		
PSY A313	Psychology of Women	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Junior level standing, or 6 credits of psychology. Examines how women behave, think, and feel. Major topics are sex-role development, the effects of sexism, pornography, and violence against women, gender differences, female sexuality and health issues, love relationships, femininity, masculinity, and androgyny, and adjustment and mental disorders.		
PSY A316	Motivation and Emotion	3 CR
Contact Hours: 3 + 0 Prerequisites: PSY A111. Special Fees. Examines the basic theories and phenomena associated with motivational states and emotional experiences. Human motives are described and related to various forms of behavior. Characteristics of emotional states are identified.		
PSY A327	Field Experience in Psychology I	3 CR
Contact Hours: 0 + 6 Prerequisites: PSY A111. Registration Restrictions: Six additional credits of Psychology courses. Arranged placement in supervised settings that provide clinical and social services. Focuses on values, ethics, agency operations, case management, and entry-level direct service skills for individuals and families. Students are expected to complete 90 hours of supervised experience.		
PSY A328	Evolutionary Psychology	3 CR
Contact Hours: 3 + 0 Prerequisites: PSY A111. Registration Restrictions: One other three (3) credit psychology course. Survey of behavioral traits across multiple animal species, including humans, and possible explanations for their occurrence. Explores the role of genes, natural selection, and other factors which may be used to explain the behavior of individuals.		
PSY A345	Abnormal Psychology	3 CR
Contact Hours: 3 + 0 Prerequisites: PSY A111. Introduces the psychology of abnormal behavior through research and clinical applications using a biopsychosocial model. Psychological disorders are presented within their multicultural, gender, and developmental contexts. Topics also include history, assessment, suicide, psychopharmacology, mental institutions, psychotherapy, and prevention as well as contemporary legal issues.		
PSY A355	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. Special Note: Offered Fall and Spring Semesters. 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 AS A252 or AS A253]. Special Note: Offered Fall and Spring Semesters. Structures and functions of the central nervous system and how these may explain behavior phenomena.		
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 AS A252 or AS A253 or AS 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 A427	Field Experience in Psychology	3 CR
Contact Hours: 0 + 6 Prerequisites: PSY A327. Registration Restrictions: Declared psychology major and 12 credits of psychology. For non-majors, faculty permission required. Stacked with: PSY A627. Special Note: This course meets the capstone requirement for the psychology degree. Arranged placement in supervised settings that provide social services. Focus on increasing responsibility for providing services to individuals and families. Emphasis on communication skills, assessment, service planning, program evaluation, and grant writing. Students are expected to complete 90 hours of supervised experience.		
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: AS A252 for BA Sociology or AS 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	Best Practices in Mental Health Services	3 CR
Contact Hours: 3 + 0 Prerequisites: PSY A345 or SWK A342 or HUMS A324 or NS A405. An in-depth examination of mental health treatment issues including emotional and behavioral disturbances and developmental disabilities. Topics including biological and environmental basis of disabilities, social and learning systems of intervention, cultural, family and legal issues. The relevance of course material to service delivery in Alaska is emphasized.		
PSY A456	Selected Topics On Disabilities	1-3 CR
Contact Hours: 1-3 + 2-6 Prerequisites: PSY A455. Stacked with: PSY A656. Special Note: Check schedules for specific titles being offered. PSY 456 may be repeated for a maximum of 6 credits with a change of subtitle. Focus on current topics related to specific disabilities and the educational and treatment plan issues surrounding disabilities.		
PSY A465	Cross-Cultural Psychology	3 CR
Contact Hours: 3 + 0 Prerequisites: PSY A111. Registration Restrictions: Three other psychology courses; PSY A425 recommended. Stacked with: PSY A654. Explores ethnic-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 AS 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. 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. 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 A611	Ethics and Professional Practice	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Admission to the M.S. Clinical Psychology program. Grade Mode: Pass/No Pass. Special Note: Offered Fall Semesters. Forum for the discussion of ethical issues in the practice of clinical psychology, psychotherapy, and research; guidelines for standards of care and professional behavior; and issues related to professional development.		
PSY A612	Advanced Human Development	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Bachelor's degree. Special Note: A graduate course in human development is a prerequisite for a license as a Psychological-Associate in the state of Alaska. Reviews aspects of human development, change, and transition that occur over the life span. Covers the full span of developmental progression (infancy, childhood and adulthood) with an emphasis on the cognitive, emotional, and psychological tasks of development at various ages.		
PSY A622	Psychopathology	3 CR
Contact Hours: 3 + 0 Prerequisites: PSY A345. Registration Restrictions: Admission to MS Clinical Psychology program. Special Fees. Special Note: Offered Fall Semesters. Thoroughly familiarizes students with the diagnostic process that precedes psychotherapy and treatment planning, utilizing the most current diagnostic and statistical manual of mental disorders. Provides an overview of types of psychopathology and reviews associated research to enhance diagnostic accuracy and understanding.		
PSY A623	Psychotherapy Skills	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Admission to MS Clinical Psychology Program. Special Fees. Special Note: Offered Fall Semesters. Psychotherapy skills training course including theory, techniques, professional issues, and experience. Students participate in videotaped interviews to practice and refine psychotherapy techniques and skills.		
PSY A624	Group Therapy	3 CR
Contact Hours: 3 + 0 Prerequisites: (PSY A623 or concurrent enrollment). Registration Restrictions: Admission to MS Clinical Psychology Program. Special Fees. Special Note: Offered Spring Semesters. Theories of group dynamics and exploration of group processes for a variety of populations. Includes interpretation and analysis of interactional and interpersonal patterns. Features an experiential component of group participation and leadership.		

PSY A626 Family Therapy 3 CR
 Contact Hours: 3 + 0
 Prerequisites: (PSY A623 or concurrent enrollment).
 Registration Restrictions: Admission to MS Clinical Psychology Program.
 Special Fees.
 Special Note: Offered Fall Semesters.

Covers systems theory of family dynamics and behavioral change concepts. Includes critical survey of prevailing interventions, emphasizing couples therapy and whole family techniques. Covers interaction analysis and observation of recorded or analog family therapy.

PSY A627 Agency and Community Field Experience 3 CR
 Contact Hours: 2 + 5
 Registration Restrictions: Admission to MS Clinical Psychology Program.
 Stacked with: PSY A427.

Special Note: May not be applied as elective credit to the MS degree in Psychology, though it may apply for credit to interdisciplinary Master's degree programs.

Involves work in community agencies under close supervision by a field and campus supervisor. Provides pre-practicum experiences with some direct services, but mainly extensive observation, to be integrated with relevant theoretical and empirical literature.

PSY A631 Cognitive Behavior Therapy 3 CR
 Contact Hours: 3 + 0
 Prerequisites: (PSY A623 or concurrent enrollment).
 Registration Restrictions: Admission to MS Clinical Psychology Program.
 Special Note: Offered Spring Semesters.

Behavioral strategies of major clinical relevance (e.g., treatment of anxiety, depression). Procedures (including behavioral assessment) are examined in detail and related to evidence for efficacy, with emphasis on adult populations.

PSY A633 Psychological Assessment 3 CR
 Contact Hours: 3 + 0
 Prerequisites: PSY A473 and (PSY A623 or concurrent enrollment).
 Registration Restrictions: Admission to MS Clinical Psychology Program.
 Special Fees.
 Special Note: Offered Spring Semesters.

Administering, scoring and interpreting assessment tools (especially intelligence and personality measures), and writing psychological reports, resulting in a meaningful individual or group evaluation.

PSY A638 Child-Clinical Psychology 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: BA or BS degree; parenting or professional experience with children.
 Special Note: Offered Fall Semesters.

Treatment of childhood behavior problems affecting abnormal and normal children, particularly those encountered by practicing psychologists and pediatricians. Examines the empirical basis for various forms of parent advice, parent training, and direct clinical intervention.

PSY A639 Advanced Research Methods 3 CR
 Contact Hours: 3 + 0
 Prerequisites: PSY A420 or PSY A261.
 Registration Restrictions: Admission to MS clinical psychology program.
 Special Fees.
 Special Note: Offered Spring Semesters.

Teaches advanced research design for graduate students beginning research-related work. Provides systematic coverage of research designs and journal publication procedures. Students develop research topics, conduct initial literature review, identify appropriate publication outlets, address ethical issues, delineate necessary pilot studies, and present plan for conduct, interpretation and publication of research work.

PSY A643 AIDS and Substance Abuse Counseling 3 CR
 Contact Hours: 3 + 0
 Prerequisites: [HS A350 or PSY A350] and PSY A623.
 Registration Restrictions: BA or BS degree. PSY A350 or HS A350, or relevant professional experience.
 Stacked with: PSY A443.

Special Note: Cannot be applied toward the MS degree in Clinical Psychology if PSY A443 was previously taken for credit. Offered Alternate Spring Semesters.

Provides an in-depth analysis of the physical and psychological consequences of Human Immunodeficiency Virus (HIV) and Acquired Immunodeficiency Syndrome (AIDS). Focus is placed on this disease in relation to substance abuse, including HIV risk reduction and counseling approaches for drug users. Counseling skills for pre/post HIV testing are provided and emphasized. Covers all material introduced in PSY A443 and goes beyond it by requiring practical applications of that knowledge and class presentations based on student's own area of risk interest.

PSY A645 Advanced Psychotherapy Skills 3 CR
 Contact Hours: 3 + 0
 Prerequisites: PSY A622 and PSY A623.
 Registration Restrictions: Admission to MS clinical psychology program.
 Special Note: Offered Spring Semesters.

Reviews various types of advanced therapeutic skills (e.g., Gestalt techniques, paradoxical intervention, relaxation training) as they are relevant with regard to different diagnoses presented by clients. Reviews the research literature for specific disorders and their correlated recommended treatments.

PSY A650 Systems of Human Behavior I 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: Admission to graduate program in Psychology. Biomedical Program Director and faculty approval.
 Grade Mode: Pass/No Pass.
 Crosslisted with: BIOM A650.
 Special Fees.

Selected overview of contributions from behavioral sciences to clinical practice of primary care physicians. Sensitizes students to impact of such factors as emotional and physical development, cultural backgrounds, social roles, families, sexual identities, and belief systems upon their effectiveness as physicians. Encourages appreciation of the role of behavioral factors in major management problems faced in medical practice; covers physical and psychological development of the individual from the embryo through old age; teaches skills in analyzing behavior, defining behavioral objectives, and designing precise treatment strategies to obtain these objectives.

PSY A654 Cultural Issues in Psychotherapy 3 CR
 Contact Hours: 3 + 0
 Prerequisites: PSY A623.
 Registration Restrictions: Admission to MS Clinical Psychology program.
 Stacked with: PSY A465.

Special Note: PSY A654 cannot be applied toward the MS degree in Clinical Psychology if PSY A465 was previously taken for credit. Offered Spring Semesters.

Places focus on understanding the role that ethnic and cultural issues can play in psychotherapy relationships. Opportunities are provided to gain the awareness, knowledge, and skills necessary to become more effective in cross-cultural psychotherapy situations.

PSY A656 Advanced Selected Topics on Disabilities 1-3 CR
 Contact Hours: 1-3 + 2-6
 Prerequisites: PSY A455 or PSY A642.
 Registration Restrictions: BA or BS degree.
 Stacked with: PSY A456.

Special Note: Check schedules for specific titles being offered. PSY 656 may be repeated for credit with a change of subtitle. May receive credit for both PSY A456 and PSY A656 with different subtitles.

Focus on current topics related to specific disabilities and the clinical and treatment plan issues surrounding the disability.

PSY A665A Psychotherapy Practicum: Psychological Assessment 1 CR
 Contact Hours: 2 + 4
 Prerequisites: PSY A623 and PSY A633.
 Registration Restrictions: Admission to MS clinical psychology program.
 Special Fees.
 Special Note: Offered Fall and Spring Semesters.

Applied technique course focusing on specific issues and problems in psychological assessment.

PSY A665B Psychotherapy Practicum: Psychological Services Center 3 CR
 Contact Hours: 2 + 15
 Prerequisites: (PSY A622 or concurrent enrollment) and PSY A623.
 Registration Restrictions: Admission to MS clinical psychology program. Completion of all departmental prerequisites.
 Special Fees.
 Special Note: Offered Fall and Spring Semesters.

Applied technique course focusing on psychotherapy issues and problems encountered in the general psychotherapy setting. All course work will be done in the department's Psychological Services Center.

PSY A665C Psychotherapy Practicum: Community Agency 1-3 CR
 Contact Hours: 2 + 4-12
 Prerequisites: PSY A622 and PSY A623.
 Registration Restrictions: Admission to the MS clinical psychology program or an interdisciplinary MS degree housed in psychology.
 Special Fees.

Applied techniques course focusing on specific psychotherapy techniques or intervention issues such as consultation, family preservation, or case management as well as problems encountered in specific mental health settings. All course work will be done at a designated community or campus agency.

PSY A670 Psychotherapy Internship 3-6 CR
 Contact Hours: 2 + 20-4
 Prerequisites: PSY A665B.
 Registration Restrictions: Candidacy status; admission to MS clinical psychology program; students must have passed the department comprehensive exam.
 Special Fees.
 Special Note: A minimum of two successfully completed semesters (grade of B or better) is required for graduation. Placement at approved settings will be assigned according to the student's specialization and availability of sites. Offered Fall and Spring Semesters.
 Supervised psychotherapy with clients in a variety of settings throughout the community.

PSY A682 Clinical Interventions for Addictive Behaviors 3 CR
 Contact Hours: 3 + 0
 Prerequisites: [HS A381 or PSY A381] and PSY A623.
 Registration Restrictions: BA or BS degree. PSY A350 or HS A350, or relevant professional experience.
 Stacked with: PSY A482.
 Special Note: Cannot be applied toward the MS degree in Clinical Psychology if PSY A482 was previously taken for credit. Offered Alternate Fall Semesters.
 Emphasis is on conceptualizing substance abuse as a continuum from intervention to after-care. Skills developed in counseling techniques are built upon and applied to various substance abuse care studies. In-depth applications to clinical interventions are emphasized and differentiated for various treatment settings. Covers all material introduced in PSY A482 and goes beyond it by requiring practical applications of the knowledge, case conceptualizations based on placement along the substance continuum, and class presentations on student's own area of clinical specialization.

PSY A685 Quantitative Methods in Psychology 3 CR
 Contact Hours: 3 + 0
 Registration Restrictions: Graduate standing 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 A685L Quantitative Methods in Psychology Lab 1 CR
 Contact Hours: 0 + 3
 Prerequisites: (PSY A685 or concurrent enrollment).
 Registration Restrictions: Graduate standing and an undergraduate statistics course.
 Special Fees.
 Special Note: Offered Fall Semesters.
 Elective computer laboratory designed to teach computerized packages for quantitative methods of data analysis in psychology.

PSY A688 Assessment and Treatment Planning for Addictive Behaviors 3 CR
 Contact Hours: 3 + 0
 Prerequisites: [PSY A350 or HS A350] and PSY A623.
 Registration Restrictions: BA or BS degree. PSY A350 or HS 350, or relevant professional experience.
 Stacked with: PSY A488.
 Special Note: Cannot be applied toward the MS degree in Clinical Psychology if PSY A488 was previously taken for credit. Offered Alternate Spring Semesters.
 Tests, measurement, and treatment planning are reviewed in-depth with an exclusive focus on substance abuse assessment methods. Topics of classical theory, reliability, validity, text construction, item analysis, and treatment planning are studied in detail. Covers all material introduced in PSY A488 and goes beyond it by requiring practical applications of that knowledge and written evaluations of assessment instruments based upon thorough review of the professional literature.

PSY A689 Advanced Psychological Assessment 3 CR
 Contact Hours: 3 + 0
 Prerequisites: PSY A473 and PSY A633.
 Registration Restrictions: Admission to MS clinical psychology program.
 Special Fees.
 Special Note: Offered Fall Semesters.
 Presents advanced psychological assessment topics and techniques such as the Rorschach Inkblot Test, the Thematic Apperception Test and other projective techniques. Also teaches 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.
 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: Admission to the MS degree program in clinical psychology or MS Interdisciplinary degree program housed in the Department of Psychology and faculty permission.
 Grade Mode: Pass/No Pass.
 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 1-4 CR
 Contact Hours: 0 + 3-12
 Registration Restrictions: Admission to graduate studies in psychology and faculty permission.
 Special Fees.
 Special Note: Offered Fall and Spring Semesters.
 Selected pre-thesis activities, such as literature reviews, protocol development, and pilot studies. May alternatively include individual contributions to team research projects.

PSY A699A Thesis: Research 1-6 CR
 Contact Hours: 0 + 3-18
 Prerequisites: PSY A639.
 Registration Restrictions: Candidacy status and permission of thesis chair.
 Special Note: Students may enroll for variable credit (1-6 hrs), but 6 credit hours are both the minimum required and maximum allowed for graduation.
 Special Note: Offered Fall and Spring Semesters.
 Required for students completing the Research Track in the Clinical Psychology MS program. Involves independent empirical research under the supervision of an individual graduate study committee that is also monitored by an outside reader. Culminates in a document prepared to publication standards and a public presentation.

PSY A699B Thesis: Public Service 1-3 CR
 Contact Hours: 0 + 3-9
 Prerequisites: PSY A639.
 Registration Restrictions: Candidacy status and permission of thesis chair.
 Special Note: Students may enroll for variable credit (1-3 hrs), but 3 credit hours are both the minimum required and the maximum allowed for graduation. Offered Fall and Spring Semesters.
 Required for students completing the Public Service Track in the Clinical Psychology MS program. Involves independent research under the supervision of an individual graduate study committee that is also monitored by an outside reader. Culminates in a document prepared to publication standards and a public presentation.

PSY A699C Thesis: Creative Component 1-3 CR
 Contact Hours: 0 + 3-9
 Prerequisites: PSY A639.
 Registration Restrictions: Candidacy status and permission of the thesis chair.
 Special Note: Students may enroll for variable credit (1-3 hrs), but 3 credit hours are both the minimum required and maximum allowed for graduation. Offered Fall and Spring Semesters.
 Required for students completing the Clinical Track or the Addictive Behaviors Track in the Clinical Psychology MS program. Involves independent research under the supervision of an individual graduate study committee that is also monitored by an outside reader. Culminates in a document prepared to publication standards and a public presentation.

RADIOLOGIC TECHNOLOGY - RADT

*Offered through the Community and Technical College
 Allied Health Sciences Building (AHS), Room 165A, 786-6940
<http://alliedhealth.uaa.alaska.edu/medicalimagingciences/>*

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. Corequisite: RADT A195A. Special Fees.		
Teaches 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 A131. Corequisite: RADT A195B. Special Fees.		
Teaches 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 A132. Corequisite: RADT A195C. Special Fees.		
Teaches basic principles of radiographic procedures in performing skull, trauma, mobile, pediatric, and other specialized imaging examinations. Continues to incorporate radiographic terminology and anatomy and allows for demonstration, practice, and evaluation of performance 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. Special Fees. 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. Corequisite: RADT A131. Grade Mode: Pass/No Pass. 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 Prerequisites: RADT A195A. Corequisite: RADT A132. 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 Prerequisites: RADT A195B. Corequisite: RADT A133. 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.		
RADT 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.		
RADT 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.		
RADT A295B	Radiography Practicum V	5 CR
Contact Hours: 0 + 24 Prerequisites: RADT A295A. Grade Mode: Pass/No Pass. 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.		

REFRIGERATION AND HEATING - RH

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.

Focuses 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 A103 and RH A105 and RH A107.

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 A101 and RH A103 and RH A105 and RH A107.

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 A130 Blueprint Reading for HVAC/R Systems 3 CR

Contact Hours: 2 + 2

Offered only at Matanuska-Susitna College.

Introduces skills and methods for reading and analyzing building plans and blueprints. Correlates architectural, structural and electrical plans with those that are required for mechanical and heating, ventilation, and air conditioning work. Includes Section 15 building specification topics and requirements related to the development of As-Built drawings.

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 overfeed system.

RH A203 HVAC/R Basic Controls 3 CR

Contact Hours: 2 + 2

Prerequisites: RH A126.

Offered only at Matanuska-Susitna College.

Introduces current mechanical codes as adopted by the State of Alaska and covers 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.

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 will 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.

RUSSIAN - RUSS

Offered through the College of Arts and Sciences

Administration/Humanities Building (ADM), Suite 287, 786-4030

<http://language.uaa.alaska.edu/>

RUSS A100A Introduction to Russian Language and Culture I 3 CR

Contact Hours: 3 + 0
Special Fees.

A general survey of the Russian language and culture. Students learn the Cyrillic alphabet, some very limited grammar, and useful words and phrases, as well as become familiar with various aspects of Russian culture. Designed primarily for people who intend to travel to Russian-speaking countries or who host Russian visitors and want to be able to exchange very basic information with them.

RUSS A100B Introduction to Russian Language and Culture II 3 CR

Contact Hours: 3 + 0
Prerequisites: RUSS A100A.

Continuation of RUSS A100A: a general survey of the Russian language and culture. Students continue to study grammar, useful words and phrases, and various aspects of Russian culture. Intended for travelers or hosts to Russian visitors.

RUSS A101 Elementary Russian I 4 CR

Contact Hours: 4 + 0
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Special Note: Requires use of language lab outside of class time.

Introduces Russian language and culture for students with no background in Russian. Students learn alphabet and past and future tenses, and read simple paragraphs. Focuses on life in the Russian-speaking countries. Emphasizes conversation.

RUSS A101E Elementary Russian I 3 CR

Contact Hours: 3 + 0
Course Attributes: UAA GER Humanities Requirement.
Offered only at extended colleges.

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.
Special Note: Requires use of language lab outside of class time.

Students learn rudiments of Russian grammar while continuing to build vocabulary and conversational skills. Use of Russian language newspapers, magazines and atlases to enhance reading skills.

RUSS A102E Elementary Russian II 3 CR

Contact Hours: 3 + 0
Prerequisites: RUSS A101E.
Course Attributes: UAA GER Humanities Requirement.
Offered only at extended colleges.

Students learn rudiments of Russian grammar while continuing to build vocabulary and conversational skills. Use of Russian language newspapers, magazines and atlases to enhance reading skills.

RUSS A105 Conversational Skills 1 CR

Contact Hours: 0 + 2
Registration Restrictions: Proficiency as after one semester of college-level or one year of high school study in Russian.
Grade Mode: Pass/No Pass.
Stacked with: RUSS A205.
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 Russian to retain what they have learned. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

RUSS A201 Intermediate Russian I 4 CR

Contact Hours: 4 + 0
Prerequisites: RUSS A102.
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Special Note: Requires use of language lab outside of class time.

Continuing study of rudimentary Russian grammar. Emphasizes vocabulary expansion, along with enhancement of speaking skills in real-life situations.

RUSS A202 Intermediate Russian II 4 CR

Contact Hours: 4 + 0
Prerequisites: RUSS A201.
Course Attributes: UAA GER Humanities Requirement.
Special Fees.
Special Note: Requires use of language lab outside of class time.

Introduces intermediate grammar concepts. Students read independently and discuss readings in class. Cultural material incorporated at all times.

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.
Stacked with: RUSS A105.
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.

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.

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 A384 Russian Women 3 CR

Contact Hours: 3 + 0
Crosslisted with: HIST A384.
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.

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.

RUSS A490A Selected Topics in Russian Culture 1-3 CR

Contact Hours: 1-3 + 0
Registration Restrictions: RUSS A302 or comparable proficiency level.
Special Fees.
Special Note: Conducted in Russian. May be repeated for credit with a change of subtitle.

For advanced students interested in Russian culture with sufficient language proficiency to read, write, and converse in Russian.

RUSS A490B Selected Topics: Russian Culture in Translation 1-3 CR

Contact Hours: 1-3 + 0
Registration Restrictions: Junior Standing.
Special Fees.
Special Note: Conducted in English. May be repeated for credit with a change of subtitle.

Covers various aspects of Russian culture. Readings are in English translation, but students who read Russian may choose to read the texts in the original.

SOCIOLOGY - SOC

*Offered through the College of Arts and Sciences
Social Sciences Building (SSB), Room 372, 786-1714
<http://sociology.uaa.alaska.edu/>*

SOC A101 Introduction to Sociology 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Social Sciences Requirement.

Special Note: Offered Fall and Spring Semesters.

Introduction to science of humans as social animals, emphasizing social processes which give rise to and shape human's language, experiences, perception, meaning, and behavior. Multiple frameworks used in understanding and predicting human behavior.

SOC A110 Introduction to Gerontology: A Multidisciplinary Approach 3 CR

Contact Hours: 3 + 0

A multidisciplinary course that provides an introduction to gerontology. Covers many aspects of aging including those associated with biology, physiology, medical care, psychology, culture, sociology, and social policies. Students will also be introduced to possible career paths within the field of gerontology.

SOC A201 Social Problems and Solutions 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Social Sciences Requirement.

Special Note: Offered Fall and Spring Semesters.

Survey of some of today's major social problems such as criminal and violent behavior, corporate crime, sexual deviations, health problems, poverty, discrimination, urban decay, and environmental pollution. Examines how social issues become social problems, the causes of problems, and the dynamics involved in arriving at policies and solutions.

SOC A202 The Social Organization of Society 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Social Sciences Requirement.

Special Note: Offered Alternate Fall Semesters.

Examination of various ways in which societies develop social structures such as belief, value, symbol, and normative systems to lend predictability to human interactions. Explores why such structures are needed by human societies and implications of varying structures.

SOC A203 Juvenile Delinquency 3 CR

Contact Hours: 3 + 0

Prerequisites: SOC A101.

Crosslisted with: JUST A203.

Special Note: Offered Fall and Spring Semesters.

Conceptual approach to deviant and delinquent behavior, contributing social problems, adolescence as a subculture. Emphasis on juvenile code and treatment procedure.

SOC A222 Small and Rural Communities 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Social Sciences Requirement.

Special Fees.

Special Note: Offered Alternate Spring Semesters.

Overview of organization, viability, change and problems of small communities and villages in rural areas; their relations to larger and regional systems; and factors which affect their future as autonomous units.

SOC A242 An Introduction to Marriage, Family and Intimate Relationships 3 CR

Contact Hours: 3 + 0

Registration Restrictions: A social science course recommended.

Special Fees.

Special Note: Offered Fall and Spring Semesters.

Introduction to sociological study of contemporary patterns relating to marriage, family and other intimate relationships. Also explores impact of gender roles, ethnicity and racial background on beliefs, values, attitudes and behaviors.

SOC A246 Adolescence 3 CR

Contact Hours: 3 + 0

Prerequisites: SOC A101 or PSY A111.

Special Note: Offered Spring Semesters.

Introduction to the world of the adolescent. Examines various patterns of physical, social, intellectual and emotional development during adolescence and effects of social class, ethnicity, race and gender.

SOC A280 Seminar in Contemporary Issues 3 CR

Contact Hours: 3 + 0

Crosslisted with: HIST A280 and PSY A280.

Special Note: Subtitle varies; may be repeated for credit with a different subtitle.

Crosslisting varies each semester depending on topic.

Analyzes contemporary issues from a variety of social science perspectives.

SOC A307 Demography 3 CR

Contact Hours: 3 + 0

Prerequisites: SOC A101.

Special Note: Offered Fall Semesters.

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.

SOC A309 Urban Sociology 3 CR

Contact Hours: 3 + 0

Prerequisites: SOC A101.

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.

SOC A310 Sociology of Aging 3 CR

Contact Hours: 3 + 0

Prerequisites: SOC A101 or SOC A110.

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.

SOC A342 Sexual, Marital and Family Lifestyles 3 CR

Contact Hours: 3 + 0

Prerequisites: SOC A101.

Course Attributes: UAA GER Social Sciences Requirement.

Special Note: Offered Spring Semesters.

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.

SOC A343 Sociology of Deviant Behavior 3 CR

Contact Hours: 3 + 0

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.

SOC A347 Sociology of Religion 3 CR

Contact Hours: 3 + 0

Prerequisites: SOC A101.

Special Note: Offered Spring Semesters.

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.

SOC A351 Political Sociology 3 CR

Contact Hours: 3 + 0

Crosslisted with: PS A351.

Course Attributes: UAA GER Social Sciences Requirement.

Special Note: Offered Fall Semesters.

Introduces social aspects of politics and nature and distribution of power in society: examines the dynamic relationship of the political process and the institutions of society.

SOC A352 Women and Social Action 3 CR

Contact Hours: 3 + 0

Prerequisites: SOC A101.

Registration Restrictions: WS A200 recommended.

Special Fees.

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.

SOC A361 Social Science Research Methods 3 CR

Contact Hours: 3 + 0

Prerequisites: SOC A101 or PS A102.

Crosslisted with: PS A361.

Special Fees.

Special Note: Offered Fall and Spring Semesters.

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.

SOC A363	Social Stratification	3 CR
Contact Hours: 3 + 0 Prerequisites: SOC A101. Special Note: Offered Fall Semesters. 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.		
SOC A370	Medical Sociology	3 CR
Contact Hours: 3 + 0 Prerequisites: SOC A101. Crosslisted with: HS A370. Special Note: Offered Alternate Fall Semesters. 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.		
SOC A373	Strategies of Community Change	3 CR
Contact Hours: 3 + 0 Prerequisites: SOC A101. Special Note: Offered Spring Semesters. Practical methods for planning, organizing and implementing community development programs in urban and rural settings. Course covers both planned programs of community change and general community organizing. Students will be expected to develop a project for community action.		
SOC A375	Social Psychology	3 CR
Contact Hours: 3 + 0 Prerequisites: SOC A101 or PSY A111. Introduces differences in sociological and psychological 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.		
SOC A377	Men, Women and Change	3 CR
Contact Hours: 3 + 0 Prerequisites: SOC A101 or SOC A275. Special Note: Offered Fall Semesters. 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.		
SOC A387	Gay and Lesbian Lifestyles	3 CR
Contact Hours: 3 + 0 Prerequisites: SOC A101 and PSY A111. Special Note: Offered Alternate Spring Semesters. 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.		
SOC A402	Theories of Sociology	3 CR
Contact Hours: 3 + 0 Prerequisites: SOC A101. Special Note: Offered Fall and Spring Semesters. 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.		
SOC A404	Environmental Sociology	3 CR
Contact Hours: 3 + 0 Prerequisites: SOC A101. Special Note: Offered Alternate Spring Semesters. 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.		
SOC A405	Social Change	3 CR
Contact Hours: 3 + 0 Prerequisites: SOC A101. Special Note: Offered Fall Semesters. Social change in long-time perspective, with emphasis on social movements and the influence of technology.		

SOC A407	Formal Organizations	3 CR
Contact Hours: 3 + 0 Prerequisites: SOC A101. Crosslisted with: SWK A407. Special Note: Offered Fall Semesters. 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, practica, and the job market.		
SOC A408	Sociology of Race and Ethnicity	3 CR
Contact Hours: 3 + 0 Prerequisites: SOC A101. Special Note: Offered Spring Semesters. Present status of ethnic, religious and national minorities and their changing sociological, economic, and political status.		
SOC A452	Violence in Intimate Relationships	3 CR
Contact Hours: 3 + 0 Prerequisites: SOC A101. Registration Restrictions: Social research methods recommended. Special Note: Offered Fall Semesters. 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.		
SOC A453	Application of Statistics to the Social Sciences	4 CR
Contact Hours: 3 + 2 Registration Restrictions: AS A252 for BA Sociology or AS A253 for BS Sociology or PSY A260 for BA/BS Psychology, and SOC A361 or PSY A261. Crosslisted with: PSY A453. Special Fees. Special Note: Offered Spring Semesters. Demonstrates application of statistics to various types of studies in the social sciences. Students analyze social science journal articles that utilize statistics.		
SOC A454	Evaluation Research and Change	3 CR
Contact Hours: 3 + 0 Registration Restrictions: A social science methods course. Crosslisted with: JUST A454. Special Note: Offered Alternate Fall Semesters. Application of evaluation research to policy-making process. Presents evaluative research strategies including monitoring, process evaluation, cost-benefit analysis, and impact evaluation. Special attention given to designing evaluation projects, analyzing and interpreting results, preparing and presenting evaluation research reports in justice, human and community service fields.		
SOC A487	Sociology Practicum	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Faculty permission. Special Note: May be repeated once for credit. Offered Fall and Spring Semesters. 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.		
SOC A488	Capstone Seminar	3 CR
Contact Hours: 3 + 0 Prerequisites: SOC A361 and SOC A402. Special Note: Offered Spring Semesters. Overview of the discipline emphasizing synthesis of theory and research, critical reflection and evaluation, and recent developments in sociology with social action. Students draw on their acquired knowledge to show mastery of discipline's complexity.		
SOC A490	Selected Topics in Contemporary Issues	3 CR
Contact Hours: 3 + 0 Prerequisites: SOC A101. Special Note: May be repeated for credit with a different subtitle. Sociology majors may apply up to 6 credits towards major requirements. Intensive research and analysis of specific contemporary issues from a variety of social science perspectives.		

SPANISH - SPAN

*Offered through the College of Arts and Sciences
Administration/Humanities Building (ADM) Suite 287, 786-4030
<http://language.uaa.alaska.edu/>*

SPAN A101 Elementary Spanish I 4 CR

Contact Hours: 4 + 0

Course Attributes: UAA GER Humanities Requirement.

Special Fees.

Special Note: Use of language lab is required outside of class time.

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 A101E Elementary Spanish I 3 CR

Contact Hours: 3 + 0

Course Attributes: UAA GER Humanities Requirement.

Offered only at extended colleges.

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.

Special Note: Use of language lab is required outside of class time.

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 A102E Elementary Spanish II 3 CR

Contact Hours: 3 + 0

Prerequisites: SPAN A101E.

Course Attributes: UAA GER Humanities Requirement.

Offered only at extended colleges.

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.

Special Note: Use of language lab is required outside of class time.

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 A201E Intermediate Spanish I 3 CR

Contact Hours: 3 + 0

Prerequisites: SPAN A102E.

Course Attributes: UAA GER Humanities Requirement.

Offered only at extended colleges.

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.

Special Note: Use of language lab is required outside of class time.

Continuation of SPAN 201. Includes review of grammar and study of new vocabulary and expressions. Emphasizes reading and writing of short compositions or essays. Articles from magazines and newspapers on issues of current interest will be analyzed and discussed to expand ability of students to read, write and speak fluently.

SPAN A202E Intermediate Spanish II 3 CR

Contact Hours: 3 + 0

Prerequisites: SPAN A201E.

Course Attributes: UAA GER Humanities Requirement.

Offered only at extended colleges.

Special Fees.

Continuation of SPAN 201E. Includes review of grammar and study of new vocabulary and expressions. Emphasizes reading and writing of short compositions or essays. Articles from magazines and newspapers on issues of current interest will be analyzed and discussed to expand ability of students to read, write and speak fluently.

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 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 into what can be known as Castilian in the Middle Ages from its inception in the IX 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.

SPAN A490 **Selected Topics in Hispanic Culture and Civilization** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: SPAN A302.
 Special Fees.
 Special Note: Conducted in Spanish. May be repeated twice for credit with a different subtitle.

Surveys Spain's or Latin America's history and culture. Literature, painting, folklore, dance, film, and other artistic traditions are studied from a social, political, and economic perspective. Readings and lectures emphasize the multicultural patterns and the rich artistic traditions of the various peoples composing the Spanish and the Latin American worlds from ancient to modern times. Concentrates on either Spain and its culture and civilization, or Latin America and its cultures and civilizations, or in any one particular period thereof.

SOCIAL WORK - SWK

*Offered through the College of Health & Social Welfare
 Gordon Hartlieb Hall (GHH), 786-6900*

<http://socwork.uaa.alaska.edu/>

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.
 Special Note: Offered Fall and Spring Semesters.

Analyzes social inequality and American social welfare system. Traces historical development of government response to social inequality. Explores historical and persisting dilemmas—ethical, political, social, and economic—explicit and implicit in social welfare provisioning. Assists in understanding of social welfare problems and their solutions.

SWK A121 **Advocating for Victims of Domestic Violence and Sexual Assault** **3 CR**
 Contact Hours: 3 + 0
 Crosslisted with: HUMS 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.

SWK A122 **Introduction to Hospice: Volunteer Training** **2 CR**
 Contact Hours: 2 + 0
 Registration Restrictions: Hospital homecare program staff or volunteer.
 Grade Mode: Pass/No Pass.
 Offered only at Matanuska-Susitna College.

Includes the philosophy of hospice; physical, psycho-social and spiritual needs of the terminally ill and appropriate interventions; care of the family; therapeutic communications; death and dying; and bereavement follow-up.

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. Special emphasis on consumer-centered, generalist social work and the knowledge, skills, abilities, and values necessary for professional practice. Fields of 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 Services** **3 CR**
 Contact Hours: 3 + 0
 Course Attributes: UAA GER Social Sciences Requirement.

Introduces the issues of cultural diversity and cultural sensitivity from a social work perspective in the United States. This course will introduce students to the broad and far-reaching effects of both positive and negative responses to cultural diversity in the United States. Students will participate in a community volunteer experience as part of the course requirements.

SWK A330 **Social Work Practice I** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: SWK A206.

Introduces basic interview skills and the planned change process for the social work profession. Supported by social work values, ethics, skills, and theory, emphasis will be on understanding and implementing a planned change process with individuals.

SWK A331 **Social Work Practice II** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: SWK A330.

Macro generalist social work practice with emphasis on the utilization of the planned change process model with organizations and communities. Covers selected theoretical frameworks applicable to professional practice with these consumer systems. A service learning component is included.

SWK A342 **Human Behavior in the Social Environment** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: PSY A150.
 Registration Restrictions: Human biology course content equivalent to one 3-credit course.

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 impact and influence behavior, growth, development and change.

SWK A343 **Human Behavior: Diversity and Discrimination** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: SWK A342.

Examination of human diversity in relation to ethnic, racial, cultural and other minority group affiliation and membership. Discrimination against various groups will be addressed with focus on individual and group development, opportunity, aspirations and self-concept.

SWK A363 **Great Books in Social Work** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: ENGL A111 and 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 A380 **Social Service Law** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: JUST A110 or PARL A101.
 Crosslisted with: JUST A380.

Principal legal problems encountered by service professionals in fields such as health, employment, welfare and social work, with special emphasis on professional liabilities and poverty law.

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 various methods of influencing policy development and change.

SWK A407 **Formal Organizations** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: SOC A101.
 Crosslisted with: SOC A407.

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.

SWK A409 **Introduction to Child Welfare** **3 CR**
 Contact Hours: 3 + 0

Survey of public and private 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 with Statistical Applications** **3 CR**
 Contact Hours: 3 + 0
 Prerequisites: SWK A106 and SWK A206.

Covers definition of client-centered research questions, selection of the theoretical frameworks, development of a variety of research designs, including qualitative and single subject, sampling, data collection, computer application of statistical analysis, and reporting. Students are expected to develop the skills necessary for utilization of existing research.

SWK A430	Social Work Practice III	3 CR
Contact Hours: 3 + 0 Prerequisites: SWK A331. Registration Restrictions: Admission to BSW major and Field Education status. Corequisite: SWK A461B. Focuses on generalist social work practice with groups and families. Emphasis will be on understanding and implementing a planned change process with groups and families supported by social work values, ethics, skills, and theory.		
SWK A431	Social Work Practice IV	3 CR
Contact Hours: 3 + 0 Prerequisites: SWK A430 and SWK A461B. Registration Restrictions: Admission to BSW major and Field Education status. Corequisite: SWK A462B. Recaps and expands upon the skills and theoretical material covered in Social Work Practice I, II, and III. Integrates the social work practice sequence with the content of the human behavior in the social environment, policy, research, and practicum sequences. Special emphasis will be given to the transition from the role of student learner to that of an emerging professional, concentrating on professional competence, confidence, and ethics.		
SWK A443	Mental Health Practice, Programs and Services	3 CR
Contact Hours: 3 + 0 Study of mental health problems presented by people and the response of service delivery systems. A broad overview of current mental health programs and service delivery systems is presented including their development through history. The political and economic issues of mental health policy making will be addressed as will differential intervention strategies and the needs of specific target groups.		
SWK A461B	Social Work Practicum I	6 CR
Contact Hours: 3 + 15 Prerequisites: SWK A330. Registration Restrictions: Admission to BSW program. Corequisite: SWK A430. Special Fees. Special Note: Taken concurrently with SWK A430; the student completes 224 hours per semester in an approved agency under the supervision of a field instructor appointed by the university and participates in a weekly field work seminar. Beginning social work practicum/field placement in which concepts, knowledge, skills and values are applied to client-centered problem-solving in generalist social work practice. Emphasis is on application of generalist practice skills in the areas of interviewing, assessment and planning for client system intervention.		
SWK A462B	Social Work Practicum II	6 CR
Contact Hours: 3 + 15 Prerequisites: SWK A430 and SWK A461B. Corequisite: SWK A431. Special Fees. Special Note: Taken concurrently with SWK A431; the student spends 224 hours per semester in an approved agency under the supervision of a field instructor appointed by the university and participates in a weekly field work seminar. Social work practicum/field placement relative to client-centered problem-solving in generalist social work practice. Emphasizes generalist practice skills of designing, planning, implementing, evaluating, and terminating change efforts with various client systems. Social work roles are applied and analyzed along with associated tasks required for generalist practice and entry into the profession.		
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 A471	Addictions and Social Work	3 CR
Contact Hours: 3 + 0 Analysis of addictions, particularly alcohol and substance abuse, along with prevention, management, and treatment issues. Differential consequences, theoretical and conceptual frameworks, social attitudes, organizational contexts, family dynamics, historical roots, cultural influences, contemporary research, and professional/personal issues are considered along with principles of intervention.		

SWK A481	Case Management in Social Work Practice	3 CR
Contact Hours: 3 + 0 Identification of issues, procedures, responsibilities, skills and processes for effective case management. Client identification and outreach, assessment, service planning, coordination, monitoring, advocacy and evaluation along with written communications skills crucial for coordinated service delivery. Issues relevant to various 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 A606	Social Welfare: History and Contemporary Programs	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Admission to the MSW program, and full-time student status. Special Fees. Focus on the historical evolution of mutual aid into the social welfare system as it exists in contemporary United States society. Analysis of structures and functions of current social welfare institutions is undertaken and the role of professional social work within those systems is addressed.		
SWK A607	Contemporary Social Welfare Policy and Change	3 CR
Contact Hours: 3 + 0 Prerequisites: SWK A606. Registration Restrictions: Admission to the MSW program, full-time student status. Special Fees. Contemporary social welfare policy and the influence of interacting political, economic, and social factors on its development and change. Current federal, state, and local social policies are analyzed for their impact on diverse groups in society with emphasis on influencing and changing policy in ways that maximize social justice and improve access to needed social resources.		
SWK A608	Social Policy for Advanced Generalist Practice	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program or advanced standing. Special Fees. Advanced generalist policy course for social workers. Prepares practitioners for developing policies and programs in a political economy. Examines contemporary social needs in a diverse and inequitable society. Emphasizes roles of research and evaluation in a policy process.		
SWK A624	Social Work Research	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Admission to the MSW program and full-time student status. Special Fees. Research design for graduate students beginning research activities related to professional practice. Development of research questions, selection of theoretical frames of reference, creation of research design, literature search, sampling, data collection, analysis and organization of findings are addressed. Research strategies for various system sizes, from single subject design to program evaluation, are addressed. Students engage in a practice related research project and develop skills for utilization of existing research findings.		
SWK A625	Social Work Research Lab	1 CR
Contact Hours: 1 + 0 Registration Restrictions: Admission to the MSW program, full-time student status, and successful completion of year one of the MSW program or advanced standing. Special Fees. Develop skills using the professional standards and new technologies available in social work practice. Emphasis is on developing technical writing skills and accessing the Internet as a professional tool.		
SWK A628	Program Evaluation	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing, Health Sciences, or related discipline. Prior research courses or research experience desirable. Crosslisted with: HS A628. Special Fees. Provide knowledge of purpose, design, and implementation of social services program evaluation process. Develop ability to conceptualize, and to carry out an actual program evaluation relative to the student's practicum placement. Covers both formative and summative evaluation processes. Includes necessity for evaluation and issues of cultural competence of evaluators.		

SWK A630 Practice Skills Lab 1 CR

Contact Hours: 0 + 3

Registration Restrictions: Admission to the MSW program and full-time student status. Grade Mode: Pass/No Pass.

Special Fees.

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 inter-ethnic communication skills and nontraditional settings.

SWK A631A Social Work Practice I 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Admission and full-time enrollment to the MSW program.

Special Fees.

Knowledge base for generalist social work practice with emphasis on values, skills, and problem-solving for application to client systems in need of professional intervention. Assessment and planning for social work practice with individuals, families, groups, communities, and organizations are covered.

SWK A631B Generalist Practicum I 3 CR

Contact Hours: 0 + 18

Registration Restrictions: Admission to the MSW program and full-time student status.

Special Fees.

Social work practicum to apply concepts, knowledge, skills, and values to client-centered problem solving in generalist social work practice. Emphasis is on application of generalist skills in the areas of interviewing, assessment, and planning. The student completes a total of 240 practicum hours per semester in an approved agency under the supervision of a field instructor appointed by the University and attends a weekly field work seminar.

SWK A632A Social Work Practice II 3 CR

Contact Hours: 3 + 0

Prerequisites: SWK A631A.

Registration Restrictions: Admission to the MSW program and full-time student status. Special Fees.

Knowledge base for generalist social work practice with emphasis on problem-solving applications to client systems in need of professional intervention. Building on assessment and planning processes covered in SWK A631A, intervention application, evaluation, termination, and follow-up in generalist social work practice with individuals, families, groups, organizations, and communities are covered.

SWK A632B Generalist Practicum II 3 CR

Contact Hours: 0 + 18

Registration Restrictions: Admission to the MSW program and full-time student status.

Special Fees.

Social work practicum in which concepts, knowledge, skills, and values are applied to client-centered problem solving in generalist social work. Emphasis is on application of generalist practice skills in the areas of designing, planning, implementing, evaluating, and terminating change efforts with various client systems. The student completes 240 practicum hours per semester in an approved agency under the supervision of a field instructor appointed by the University and attends a weekly field work seminar.

SWK A633A Social Work Practice III: Direct Practice 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing.

Special Fees.

Part one of the advanced generalist methods sequence. Provides an ecosystemic perspective for understanding people in their social environment. Reviews direct social work practice with multiple systems. Covers specific skills such as advanced problem-solving model for prevention, crisis intervention and multisystemic individual, family and group work. Special attention given to the bio-psycho-social development of dysfunction.

SWK A633B Advanced Generalist Practicum III 3 CR

Contact Hours: 0 + 18

Registration Restrictions: Admission to MSW program, full-time student standing, and advancement to candidacy for the MSW degree.

Special Fees.

Supervised direct and indirect practice experience under a qualified MSW social work practitioner. The student is expected to perform as an advanced generalist social worker within the agency setting. Emphasis is on application of knowledge, values and ethics, skills, and special issues covered in the MSW curriculum. The student completes 240 practicum hours per semester of work within the agency, following agency policy and procedure.

SWK A634A Social Work Practice IV: Indirect Practice 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing.

Special Fees.

Part two of the advanced generalist methods sequence. Provides an ecosystemic perspective for providing services for people in their social environment. Reviews indirect social work practice with programs, staff, organizations, and larger systems. Covers specific advanced generalist roles such as agency administrator, program planner, and community organizer. Specific attention is also given to the challenges encountered when working in larger systems.

SWK A634B Advanced Generalist Practicum IV 4 CR

Contact Hours: 0 + 20

Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing.

Special Fees.

Supervised direct and indirect practice experience under a qualified MSW social work practitioner. The student is expected to perform as an advanced generalist social worker within the agency setting. Emphasis is on application of knowledge, values and ethics, skills, and special issues covered in the MSW curriculum. The student completes 300 practicum hours per semester of work within the agency, following agency policy and procedure.

SWK A635 Advanced Generalist Integrative Seminar 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Admission to the MSW program, full-time student standing, and advancement to candidacy for the MSW degree.

Corequisite: SWK A634B.

Special Fees.

Capstone course for the advanced generalist practice sequence. Provides students with the opportunity to integrate ecosystemic theory and advanced problem-solving approaches with direct and indirect practice from the student's field of practice. Provides process for completion of the competency exam.

SWK A639B Advanced Generalist Distance Practicum 7 CR

Contact Hours: 0 + 38

Registration Restrictions: Advancement to Candidacy and permission of Field Education Coordinator. Must be graduate admitted to UAA MSW Program.

Special Fees.

Supervised direct and indirect practice experience under a qualified MSW practitioner in communities outside the Anchorage/Mat-Su area. The student completes 540 practicum hours as an advanced generalist social worker within the agency setting. Emphasis is on application of knowledge, skills, values, and ethics specific to social work practice and the Alaskan context as taught in the MSW curriculum.

SWK A642 Human Behavior in the Social Environment 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Admission to the MSW program and full-time student status. Special Fees.

Identification and advanced analysis of various theoretical frameworks for understanding human behavior with emphasis on the interactions between the individual and their social environment. Developmental stages and tasks are viewed in the context of social systems and societal institutions with focus on the diverse influences which impact upon human growth and change. Behaviors related to family, group, organizational, and community interactions and their reciprocal influence on individuals are addressed.

SWK A643 Human Diversity in Social Work Practice 3 CR

Contact Hours: 3 + 0

Prerequisites: SWK A642.

Registration Restrictions: Admission to the MSW program and full-time student status. Special Fees.

Examination of human diversity in relation to ethnicity, race, gender, sexual orientation, age, religion, class, and opportunity. Historical and contemporary influence on group membership and affiliation are addressed along with required values, knowledge and skills for effective generalist social work practice with diverse populations and clients.

SWK A651 Mental Health Practice Issues 3 CR

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Special Fees.

Preparation to work in a variety of mental health settings, including in-patient, community mental health centers, clinics, family services, specialized service settings for developmentally disabled persons, and alcohol treatment centers. Demonstrates brief treatment and case management models. Addresses strengths of families and individuals.

SWK A654	Supervisory Management in Social Work	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate Standing. Special Fees. 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. Special Fees. 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 A657	Fetal Alcohol Syndrome and Fetal Alcohol Effects	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate Standing. Special Fees. An introduction to Fetal Alcohol Syndrome and Fetal Alcohol Effects (FAS/E). The purpose of the course is to develop skills and knowledge necessary for the identification at different ages; diagnosis; understanding of primary and secondary effects of prenatal alcohol exposure in the context of human development; intervention strategies with parents, teachers, social services agencies and the justice system; primary and secondary prevention issues and public policy dilemmas with FAS/E. The course emphasis is on a biopsychosocial understanding of the issues grounded in research.		
SWK A658	Rural Social Work	3 CR
Contact Hours: 3 + 0 Level Restriction: Must be Graduate - UAA level. Registration Restrictions: Graduate standing at UAA. Special Fees. Focus on development of knowledge and skills for practice in rural environments. Emphasizes is placed upon understanding the contextual elements of practice in the small communities of rural and "bush" Alaska, and the unique roles and tasks of social workers who work with the diverse populations present in rural communities. Rural and urban policy and practice similarities and differences will be explored, along with a survey of some current service delivery models.		
SWK A659	Leadership and Decision-Making in Human Services	3 CR
Contact Hours: 3 + 0 Special Fees. Focuses on knowledge and skills related to leadership and decision-making for potential leaders of human service organizations. Emphases included leadership theory and analysis of leadership styles and decision-making theory and techniques. Issues of gender and race as they relate to leadership and decision-making will also be explored.		
SWK A671	Addiction and Social Work	3 CR
Contact Hours: 3 + 0 Registration Restrictions: Graduate Standing. Special Fees. Analysis of addictions, particularly alcohol and substance abuse, along with prevention, management, and treatment issues. Differential consequences, theoretical and conceptual frameworks, social attitudes, organizational contexts, family dynamics, historical roots, cultural influences, and contemporary research. Principles of intervention along with the development and administration of treatment programs.		
SWK A672	Advanced Family Practice in Social Work	3 CR
Contact Hours: 3 + 0 Level Restriction: Must be Graduate - UAA level. Registration Restrictions: Graduate standing at UAA. Preparation for advanced work with complex families. Major focus on family systems theories and systemic therapeutic interventions with acute and chronic dysfunction. Provides substantive knowledge of systemic interventions with multi-problem families. Special attention to poverty, addictions, family violence, family disruption, divorce, and issues encountered by nontraditional families.		
SWK A690	Selected Topics in Social Work	1-3 CR
Contact Hours: 0 + 0 Registration Restrictions: Post-baccalaureate standing. Special Fees. Special Note: May be repeated for credit with a different subtitle. Focuses on current topics related to social work services, diverse client groups, and fields of practice.		

SWK A698	Individual Research Project	3 CR
Contact Hours: 1 + 9 Registration Restrictions: Admission to the MSW program, full-time student standing, and admission to candidacy for the MSW degree. Grade Mode: Pass/No Pass. Special Fees.		

Independent research opportunity for student to complete an applied research project of use to the field practicum site. Utilization of both quantitative and qualitative skills. Completion of the project, including statement of the problem, literature review, design methodology, data analysis, and implications of the findings; culminates the research sequence and graduate experience. Participation in a weekly one-hour seminar with graduate faculty to advise and assist as needed.

TECHNOLOGY - TECH

Offered through the Community & Technical College University Center (UC) room 130, 786-6423
<http://bst.uaa.alaska.edu/>

TECH A101	Introduction to Technological Principles	3 CR
Contact Hours: 2 + 2 Prerequisites: (MATH A107 or concurrent enrollment). Introduces basic physical properties commonly found in a technical field. Emphasizes data collection and test equipment procedures.		
TECH A203	Introduction to Manufacturing Technologies	2 CR
Contact Hours: 1 + 2 Prerequisites: TECH A101 and MATH A107. Applies concepts and principles commonly associated with control and processing systems found in most technical fields. Explores traditional and evolving fields of technological systems as they apply to manufacturing and construction.		
TECH A210	Introduction to Space Systems Technologies	2 CR
Contact Hours: 2 + 0 Prerequisites: TECH A101 and MATH A107. Introduces aspects of space missions and applied space technology. Introduces design, manufacture, and testing of space hardware for the space environment. Emphasizes concepts in flight dynamics, atmospheric drag, entry effects, and hardening of space systems.		
TECH A211	Space Vehicle Boosters, Satellites and Launch Facilities	3 CR
Contact Hours: 3 + 0 Prerequisites: TECH A210. Surveys space vehicle boosters and satellite systems, subsystems, and components. Studies solid and liquid rockets commonly used to launch satellites including predelivery and predelivery activities, checkout, countdown, and launch.		
TECH A212	Propulsion Systems	2 CR
Contact Hours: 2 + 0 Prerequisites: TECH A210. Focuses on rocket systems and their subsystems and how these subsystems interface, and are monitored and isolated for faults.		
TECH A213	Quality Assurance and Launch Facility Management	2 CR
Contact Hours: 2 + 0 Prerequisites: TECH A210. Explores the management roles common to an aerospace launch facility with an emphasis on quality control. Examines management principles effective in maintaining quality operations, safe working environments, progressive training programs, and reliable production practices.		
TECH A262	Seafood Harvesting	3 CR
Contact Hours: 3 + 0 Examines differing methodologies of commercial fish harvesting and processing for human consumption.		
TECH A263	Seafood Processing	3 CR
Contact Hours: 3 + 0 Examines seafood processing with direct application to the processing of fish for human consumption.		
TECH A264	Seafood Quality and Safety	3 CR
Contact Hours: 2 + 2 Examines microbiology with direct application to seafood science in relation to product quality and safety.		

TECH A295	Technical Internship	1-6 CR
Contact Hours: 0 + 3-18 Registration Restrictions: Instructor permission required. Grade Mode: Pass/No Pass. 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.		
TECH A310	NDE for Managers and Technicians	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A107. Registration Restrictions: Junior standing. 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.		
TECH A320	Construction Systems	2 CR
Contact Hours: 2 + 0 Prerequisites: ENGL A111. Investigates and expands knowledge about construction systems, history, future, and career opportunities. The impact of construction on society is investigated and compared with other systems of technology.		
TECH A325	Transportation Systems	2 CR
Contact Hours: 2 + 0 Prerequisites: ENGL A111. Investigates and expands knowledge about transportation systems, industries, history, future, and career opportunities. The impact of transportation on society is investigated and compared with other systems of technology.		
TECH A330	Manufacturing Systems	2 CR
Contact Hours: 2 + 0 Prerequisites: ENGL A111. Investigates and expands knowledge about manufacturing systems, history, future, and career opportunities. The impact of manufacturing on society is investigated and compared with other systems of technology.		
TECH A335	Communication Systems	2 CR
Contact Hours: 2 + 0 Prerequisites: ENGL A111. Investigates and expands knowledge about communication systems, industries, history, future, and career opportunities. The impact of communication on society is investigated and compared with other systems of technology.		
TECH A402	Operational Safety	3 CR
Contact Hours: 3 + 0 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. Allows students to apply content to occupational specialties.		
TECH A412	Advanced Technical Experiences: Discipline Area	1-9 CR
Contact Hours: 0 + 4-36 Registration Restrictions: Junior standing or admission into the VTE graduate program. Crosslisted with: VE A412. Special Fees. Designed to offer students opportunity to participate in activities to increase mastery of their specific vocational discipline. These 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. The national guide to education credit for training programs will be used whenever appropriate.		
TECH A415	Accident Investigation	4 CR
Contact Hours: 3 + 3 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.		
TECH A416	Safety Appraisal Methodology	3 CR
Contact Hours: 3 + 0 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.		

TECH A422	Senior Project	3 CR
Contact Hours: 1 + 8 Registration Restrictions: Senior standing and department permission required. Selection and completion of a project under faculty supervision. Projects are typical of problems which graduates must solve in their career field. Project results are presented in a formal report. Minimum 135 hours total time.		
TECH A433	Project Design, Implementation, and Control	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A109 or MATH A107. Covers principles and practices of project planning, implementation and control. Focus is on the tools and techniques of project planning. Implementation and control applicable to managers and technicians.		
TECH A443	Total Quality Leadership	3 CR
Contact Hours: 3 + 0 Prerequisites: MATH A109 or MATH A107. Covers principles and practice of total quality leadership and continuous improvement. Focuses on the tools and techniques of total quality leadership, continuous improvement applicable to technicians and managers.		
TECH A450	Applications for Computer-Aided Drafting	4 CR
Contact Hours: 2 + 4 Prerequisites: ENGL A212. Special Fees. Special Note: Students must have sufficient background, either through education or work experience, to be able to evaluate and analyze the applications for their technical area or interests. Evaluates applications of Computer-Aided Drafting (CAD) in industry. Emphasizes production and evaluation of computer generated drawings and analysis of software and hardware. Specifically designed for technology students, teachers of CAD, and individuals evaluating the need for CAD in industry.		
TECH A495	Technical Internship	3 CR
Contact Hours: 1 + 11 Registration Restrictions: Formal admission into the BST/VTE Program. Crosslisted with: VE A495. Special Fees. Special Note: May be repeated twice for credit. Provides work experience as well as a familiarization with supervisory and management practices used by various individuals in business operations, e.g. General manager, production manager, director of quality control, floor supervisor, etc. Requires at least 160 hours work experience and 30 hours of instructor contact time.		

THEATRE - THR

*Offered through the College of Arts and Sciences
Fine Arts Building (ARTS), Room 332, 786-1792
<http://theatre.uaa.alaska.edu/>*

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 A115	Field Studies in Theatre	1 CR
Contact Hours: 1 + 0 Special Note: May be repeated for credit with a change in subtitle. A study tour to another country or area which has a significant history of theatre and allied performing arts. Specific attention to theatre architecture, production techniques and the place of drama in the specific cultural milieu.		
THR A121	Acting I	3 CR
Contact Hours: 2 + 3 An introduction to basic acting techniques with stress 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 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 Beginning course in technical theatre. Covers elements of theatrical production and scenic construction.		
THR A151	Make-Up for the Theatre	3 CR
Contact Hours: 3 + 0 Special Fees. Basic principles of make-up for actors, teachers, directors and other theatrical workers. Emphasizes make-up as it is affected by the structure of the face, make-up techniques and materials, theatrical lighting, character interpretation and illusory and plastic relief. Covers historical make-up and hair styles in classical plays.		
THR A195	Theatre Practicum: Performance	1-3 CR
Contact Hours: 0 + 3-9 Registration Restrictions: Faculty permission and audition. Stacked with: THR A395. Participation in mainstage production as an actor, director, or assistant director.		
THR A221	Acting II: Movement for Actors	3 CR
Contact Hours: 2 + 3 Prerequisites: THR A121. Intermediate study of acting with emphasis on expression through movement. Analysis and developmental physical skills.		
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 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 Registration Restrictions: Faculty permission. Stacked with: THR A495. Participation in mainstage productions as member of technical staff. Credit for scene crew, light crew, props, costume crew, make-up crew, stage management, and publicity.		
THR A311	Representative Plays I	3 CR
Contact Hours: 3 + 0 Prerequisites: ENGL A111. Course Attributes: UAA GER Fine Arts Requirement GER Humanities Requirement. Special Fees. 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 Prerequisites: ENGL A111. 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 Study and practice of script development for the stage. Class will involve staged readings of student work.		
THR A321	Acting III: Scene Study	3 CR
Contact Hours: 2 + 3 Prerequisites: THR A121. Advanced studies in acting through which actors explore various approaches to characterization by mounting scenes from actual plays.		

THR A324	Voice for the Actor	3 CR
Contact Hours: 3 + 0 Prerequisites: THR A121. Introduces the acting student to a series of exercises specifically to free and increase the expressive power of their natural vocal instrument. Concentration includes relaxation, breath control, and increased vocal range through the development of the human resonating ladder, with the primary goal being emotional honesty. Also some work in articulation.		
THR A325	Theatre Speech	3 CR
Contact Hours: 3 + 0 Prerequisites: THR A324. Continuation of THR 324 with focus on the articulatory components of speech. Through the manipulation of these elements, and in combination with tempo/rhythm, facial posture, resonance focus, lilt patterns, and a knowledge of both history and national character, the acting student will develop an appreciation and systematic approach for the acquisition of foreign dialects.		
THR A328	Acting Shakespeare	3 CR
Contact Hours: 2 + 3 Prerequisites: THR A121. 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. Special Fees. 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. Special Fees. 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 A331	Directing I	3 CR
Contact Hours: 3 + 0 Prerequisites: THR A221 and [THR A243 or DNCE A185] and THR A257. Direction of short plays for drama lab productions.		
THR A347	Lighting Design	3 CR
Contact Hours: 3 + 0 Prerequisites: DNCE A185 or THR A243. Special Fees. A course in theory and practice of design and execution of lighting and associated electrical effects for the stage. Primary focus will be on theatrical lighting with additional material on related fields.		
THR A357	Costume Design and Construction II	3 CR
Contact Hours: 1 + 4 Prerequisites: THR A257. Advanced work in costume design and construction. This course is a continuation of THR A257.		
THR A395	Advanced Practicum: Performance	1-3 CR
Contact Hours: 0 + 3-9 Registration Restrictions: Faculty permission and audition. 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 completion of written communication general college requirements. Course Attributes: UAA GER Fine Arts Requirement. UAA GER Humanities Requirement. Special Fees. Study of theatre history from Greek to 1800 period. 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 completion of written communication general college requirements. Course Attributes: UAA GER Fine Arts Requirement. UAA GER Humanities Requirement. Special Fees: Continuation of THR A411. Theatre history from 1800 to modern.		
THR A413	Dramatic Theory and Criticism	3 CR
Contact Hours: 3 + 0 Study of theories and criticism of drama and theatrical art from Aristotle to the present.		
THR A435	Directing II	3 CR
Contact Hours: 3 + 0 Prerequisites: THR A331. Advanced directional analysis of a dramatic work and public presentation of a play.		
THR A445	Advanced Theatre Production	3 CR
Contact Hours: 0 + 6 Registration Restrictions: Junior level course in area of specialization. Advanced technical theatre course with emphasis as selected by student in scenery design, lighting, stagecraft, costume, or directing.		
THR A480	Theatre Internship	5-15 CR
Contact Hours: 0 + 24-45 Registration Restrictions: Junior standing or permission of department chair. Special Note: Total of internship activity applicable toward graduation is 15 credits. 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: 2 + 3 Prerequisites: THR A121. Special Note: May be repeated for credit with a change of subtitle. Current topics in theatrical performance resulting from special demands of the theatre season or special faculty expertise.		
THR A491	Selected Topics in Technical Theatre	3 CR
Contact Hours: 2 + 3 Prerequisites: THR A257 or THR A243. Special Fees: Special Note: See schedules for specific titles being offered. May be repeated for credit with a change of subtitle. Current topics in technical theatre theory and practice. Includes studio work.		
THR A495	Advanced Practicum: Technical	1-3 CR
Contact Hours: 0 + 1-3 Registration Restrictions: Faculty permission. Stacked with: THR A295. 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.		
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.		

VOCATIONAL EDUCATION - VE

*Offered through the Community & Technical College
University Center (UC), Room 130, 786-6423
<http://ctc.uaa.alaska.edu/>*

Note: The VE program is undergoing revision. Please contact the department for information.

VE A301 Principles of Technology 3 CR
Contact Hours: 2 + 3
Stacked with: VE A601.
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 A395 Practicum in Vocational Education 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Faculty permission.
Special Fees.

The pedagogy of basic physics in the workplace. Students observe, evaluate, and present in actual classrooms. Course provides comprehensive introduction to teaching. Students will observe and assess teaching; present actual lessons; plan, evaluate, and revise lessons; participate in development of specific individual objectives; and meet with teachers for further insight into classroom management, methods and strategies, grading practices, discipline, style, activities, professional organizations, etc.

VE A400 Program Planning: PBTE (Topics Vary) .5-10 CR
Contact Hours: 0 + 1-20
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Note: Can be applied toward MS degree in Vocational education.

Competency based, individualized format. These modules deal with the duties and responsibilities of the vocational teacher in planning, developing and evaluating vocational programs. See module for specific description.

VE A410 Instructional Planning: 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. These modules cover the competencies needed by the vocational teacher in planning for classroom and laboratory instruction. Topics include student needs, performance objectives, developing a unit and lesson plans.

VE A411 Philosophical Foundations of Vocational Education 3 CR
Contact Hours: 3 + 0
Stacked with: VE A611.

A study of the theory, development, and philosophical foundations of vocational education and the relationship of vocational education to general education. An overview of secondary and postsecondary vocational education in Alaska; proprietary and applied programs; and concepts of career education. Economic and sociological foundations of vocational education; relevant federal legislation; the role of business and industry; and current issues and trends in vocational education are covered. The major objective of the course is greater understanding of the various factors influencing vocational education.

VE A412 Advanced Technical Experiences: Discipline Area 1-9 CR
Contact Hours: 0 + 4
Registration Restrictions: Junior standing or admission into the VTE graduate program.
Crosslisted with: TECH A412.
Special Fees.

Designed to offer students an opportunity to participate in activities to increase mastery of their specific vocational discipline. These 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. The national guide to education credit for training programs will be used whenever appropriate.

VE A415 Implementing Competency-Based Education: 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 assist vocational educators in implementing competency-based curricula within their subject areas. Emphasis on organizing content, facilities and instructional materials.

VE A420 Instructional Execution: PBTE (Topics Vary) .5-16 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 focus on advanced competencies for classroom and laboratory instruction. Topics include effective presentations, demonstrations, oral questioning, demonstrating a manipulative skill, audiovisual materials, conducting field trips and panel discussions. See module for specific description.

VE A425 Assisting Students in Improving Basic Skills: PBTE (Topics Vary) .5-4 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 assist vocational teachers in improving students' basic skills in the areas of reading, writing, oral communications and math.

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 A440 Instructional Management: PBTE (Topics Vary) .5-4.5 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 deal with the responsibilities of the vocational teacher in the management of instruction. Topics include instructional resources, budgets, student safety and organizing and managing vocational laboratories. See module for specific description.

VE A443 Methods of Instruction in Vocational Education 3 CR

Contact Hours: 3 + 0

Prerequisites: ED A321.

Stacked with: VE A643.

Special Fees.

An introduction to fundamental processes of instruction. Students develop competencies in various methodologies pertinent to vocational education including developing lesson plans, job sheets, and assignment sheets; lecture; simulation; demonstrations; illustrated talks; individualized instruction; laboratory learning; field trips; exhibits; bulletin boards; competency-based education; etc. Students identify, develop and critique appropriate teaching methods for a given teaching area.

VE A450 Guidance: PBTE (Topics Vary) .5-3.5 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 address the responsibilities of the vocational teacher in advising, counseling and assisting student with career planning and preparation. See module for specific description.

VE A452 Student Teaching: Vocational Education 12 CR

Contact Hours: 3 + 36

Registration Restrictions: Faculty permission. 3.0 GPA in education courses and a 2.5 GPA overall. Recommendation of VTE faculty; current medical exam and time test. Grade Mode: Pass/No Pass.

Special Fees.

Provides the capstone experience in the vocational teacher training program. Students will learn from successful teachers in actual classrooms; review, observe, evaluate, and practice the art of teaching. Hands-on apprenticeship in teaching is provided. Requires full-time supervised teaching in an approved Vocational Education Program for the entire semester at the level for which certification is sought. Periodic seminars with university faculty are required. Conducted primarily as a lab course.

VE A455 Serving Special Needs Students: PBTE (Topics Vary) .5-8 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 accommodating special needs students in the normal vocational classroom and laboratory environment.

VE A460 School/Community Relations: PBTE (Topics Vary) .5-5 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. These modules are designed to aid the vocational teacher and/or administrator in planning and maintaining effective school/community relations for the vocational program. See module for specific description.

VE A470 Student Vocational Organization: PBTE (Topics Vary) .5-4 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 cover the competencies involved in establishing and supervising student vocational organizations, as an integral part of the vocational curriculum. Topics include developing a philosophy concerning student organizations, preparing students for leadership, handling finances and supervising activities. See module for specific description.

VE A480 Professional Role and Development: PBTE (Topics Vary) .5-5 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 focus on the responsibilities of vocational teachers in serving their profession and advancing professionally. Topics include keeping up-to-date, developing a philosophy, obtaining a position and planning for student teaching. See module for specific description.

VE A490 Coordination of Cooperative Education: PBTE (Topics Vary) .5-6 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. These modules are designed to assist the prospective or present teacher-coordinator in establishing, managing and coordinating a cooperative vocational program. Topics include establishing guidelines, securing training stations, placing students and evaluation. See module for specific description.

VE A495 Technical Internship 3 CR

Contact Hours: 1 + 11

Registration Restrictions: Formal admission into the BST/VTE Program.

Crosslisted with: TECH A495.

Special Fees.

Special Note: May be repeated twice for credit.

Provides work experience as well as a familiarization with supervisory and management practices used by various individuals in business operations, e.g. General manager, production manager, director of quality control, floor supervisor, etc. Requires at least 160 hours work experience and 30 hours of instructor contact time.

VE A601 Principles of Technology 1-3 CR
 Contact Hours: .5-2 + 2-3
 Level Restriction: Must be Graduate - UAA level.
 Stacked with: VE A301.
 Special Fees.

Application of basic physics to the workplace. Emphasis 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. Students taking this course for graduate credit will emphasize pedagogy involved in presenting this curriculum.

VE A611 Philosophical Foundations of Vocational Education 3 CR

Contact Hours: 3 + 0
 Level Restriction: Must be Graduate - UAA level.
 Stacked with: VE A411.
 Special Note: Can be applied toward MS degree in Vocational education.

Study of theory, development and philosophical foundations of vocational education. Relationship of vocational education to general education. Overview of vocational education in Alaska, including secondary, postsecondary, proprietary and applied programs along with concepts of career education.

VE A622 Organization and Administration of Vocational Education 3 CR

Contact Hours: 3 + 0
 Level Restriction: Must be Graduate - UAA level.
 Special Note: Can be applied toward MS degree in Vocational education.

The principles and practices of organizing and administering vocational programs. Topics will include classroom and laboratory organization, budgeting and operating programs on different levels and for different students.

VE A633 Current Issues in Vocational Education 3 CR

Contact Hours: 3 + 0
 Level Restriction: Must be Graduate - UAA level.
 Special Note: Can be applied toward MS degree in Vocational education.

The study and analysis of recent trends, research, and issues concerning vocational education. An examination of research in vocational education, with a focus on evaluation, interpretation and sources. Identification of national and statewide problems, including legislation and special populations.

VE A643 Methods of Instruction in Vocational Education 3 CR

Contact Hours: 3 + 0
 Level Restriction: Must be Graduate - UAA level.
 Stacked with: VE A443.
 Special Fees.

Introduction to fundamental processes of instruction. Students develop competencies in various methodologies pertinent to vocational education including developing lesson plans, job sheets, and assignment sheets; lecture; simulation; demonstrations; illustrated talks; individualized instruction; laboratory learning; field trips; exhibits; bulletin boards; competency-based education; etc. Students identify, develop and evaluate appropriate teaching methods for a given teaching area. Students will do graduate level research and write papers describing instructional methodologies pertinent to their vocational/technical program area(s).

VE A644 Improving Instruction in Vocational Education 3 CR

Contact Hours: 3 + 0
 Level Restriction: Must be Graduate - UAA level.
 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
 Level Restriction: Must be Graduate - UAA level.
 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.

VE A690 Selected Topics in Career and Technical Education 1-6 CR
 Contact Hours: 1-6 + 0

Registration Restrictions: Graduate standing or faculty permission.
 Special Note: A maximum of six credits may be applied toward the MSVE Degree.
 May be repeated for credit with a change of subtitle.

Combines emerging trends, standards, and learning theories of student learning that Career and Technical educators may integrate into their curriculum. Explores opportunities for application of models using the laboratory of current or previous work experiences to test the models.

VE A695 Advanced Professional Experiences: Discipline Area 1-6 CR

Contact Hours: 1-6 + 0
 Level Restriction: Must be Graduate - UAA level.
 Special Fees.
 Special Note: Credit varies and enrollees are required to seek advisement and faculty approval prior to registration.

Formalized advanced professional experiences in vocational education. Designed to provide academic rigor and a structured environment to the professional development process.

VE A698 Individual Research 1-6 CR

Contact Hours: 1-6 + 0
 Level Restriction: Must be Graduate - UAA level.
 Registration Restrictions: Advisor permission.
 Special Note: Required course for MS degree in Vocational education.

A research paper/project jointly approved by the student's graduate committee and the student. The research paper/project should coincide with the student's professional objectives. When taken in lieu of written comprehensive exam, an oral defense of project will be required.

VOCATIONAL SKILLS - VS

Offered through Kodiak College
117 Benny Benson, Dr., Kodiak, Alaska, 99615, (907) 486-4161.
www.koc.alaska.edu/

VS A100 Beginning Woodworking 2 CR

Contact Hours: 1 + 2
 Basics of sound wood design, stock selection, hand and machine tools, cutting and shaping, fastening, surface preparation, stains, and finishes.

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.

VS A150 Intermediate Woodworking 2 CR

Contact Hours: 1 + 2
 Prerequisites: VS A100.
 Offered only at Kodiak College.

Advanced use of hand and power tools including the wood lathe. Students will build a variety of assigned projects.

VS A152 Machine Woodworking 3 CR

Contact Hours: 2 + 2
 Grade Mode: Pass/No Pass.
 Offered only at Matanuska-Susitna College.
 Special Note: Each student will design and construct a project that is approved by the instructor.

Designed to gain skills and knowledge in the use of woodworking machinery. Emphasis is placed on the safe operation of power equipment. Instruction in relating to the technology of woods, cabinet and furniture construction techniques, wood finishing, purchasing materials and maintenance of tools and equipment.

WELDING TECHNOLOGY - WELD

*Offered through the Community & Technical College
Gordon Hartlieb Hall (GHH), Room 111, (907) 786-6478
<http://weldtech.uaa.alaska.edu/>*

WELD A101 Gas and Arc Welding 4 CR
Contact Hours: 2 + 6
Special Fees.

Introduces basic principles of welding. Covers Oxy- acetylene welding, brazing, silver soldering and oxy- acetylene 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 .375 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.

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 o 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, wire feed 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.

Theory and practice of cored arc welding using self-shielded and dual shielded wire processes. Covers physics of welding transfer, electrical characteristics of power supplies, wire feeders, and filler metal selection. Presents welding in accordance with the American Welding Society structural welding code.

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.
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 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. 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.		
WELD A290	Selected Topics in Nondestructive Testing	1-4 CR
Contact Hours: 1-4 + 0-12 Prerequisites: WELD A262. Presents new techniques and technology in the nondestructive testing industry.		

WOMEN STUDIES - WS

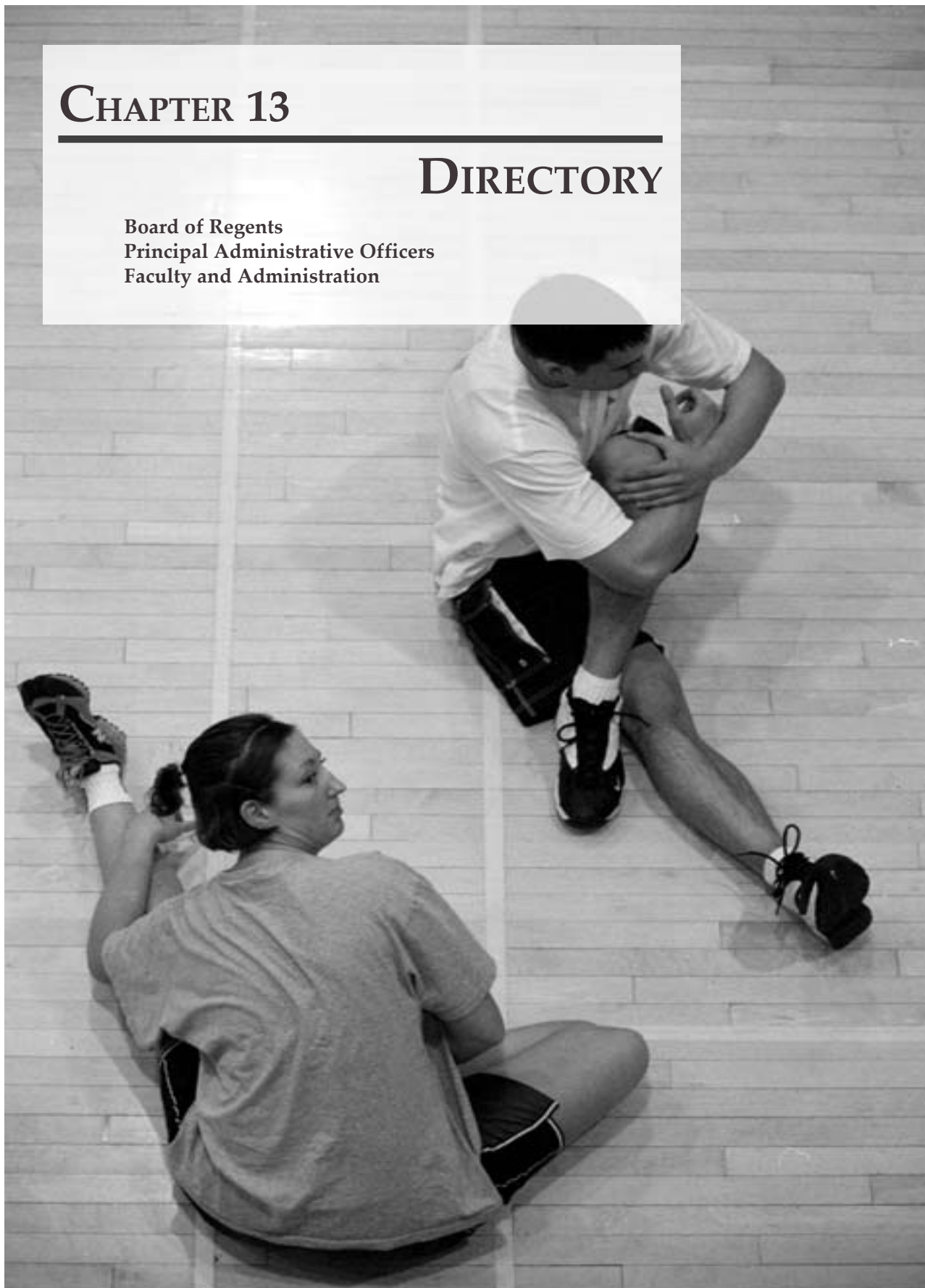
*Offered through the College of Arts and Sciences
Social Sciences Building (SSB), Room 372, (907) 786-1714
<http://womens.uaa.alaska.edu/>*

WS A200	Introduction to Women's Studies	3 CR
Contact Hours: 3 + 0 Course Attributes: UAA GER Humanities Requirement. UAA GER Social Sciences Requirement. Special Note: Offered Fall Semesters. An interdisciplinary, team-taught course which aims to increase awareness of the experience of women in contemporary society. Issues analyzed include women's work (paid and unpaid), biological definitions of woman, stereotypes of femininity, women and political power, and media images of women.		
WS A400	Feminist Theory	3 CR
Contact Hours: 3 + 0 Registration Restrictions: WS A200 or graduate standing. Interdisciplinary examination of historical and contemporary feminist and gender theories. Students engage in critical analysis, discussion, and research.		
WS A401	Seminar in Women's Studies	1-3 CR
Contact Hours: 1-3 + 0 Prerequisites: WS A200. Special Note: WS 401 may be repeated once for credit with a change of subtitle. Discusses issues related to women's studies. Content varies every semester.		

CHAPTER 13

DIRECTORY

Board of Regents
Principal Administrative Officers
Faculty and Administration



BOARD OF REGENTS

Office of Regents' Affairs

Jeannie D. Phillips, Officer
University of Alaska
202A Butrovich Building
P.O. Box 755300
Fairbanks, Alaska 99775-5300

The Regents of the University of Alaska are appointed by the Governor and are approved by the Legislature.

	Term Expires
Michael J. Burns, Regent, Anchorage	2005
Elsa Froehlich Demeksa, Vice Chair, Juneau	2005
James Hayes, Regent, Fairbanks	2011
Cynthia Henry, Regent, Fairbanks	2011
Mary K. Hughes, Regent, Anchorage	2009
Kevin O. Meyers, Regent, Anchorage	2007
Brian D. Rogers, Chair, Fairbanks	2007
Frances H. Rose, Secretary, Anchorage	2007
Michael Snowden, Regent, Sitka	2009
Joseph E. Usibelli, Jr., Treasurer, Healy	2007
David Parks, Student Regent, Palmer	2005

Mark R. Hamilton, President, University of Alaska

PRINCIPAL ADMINISTRATIVE OFFICERS

Elaine P. Maimon, Chancellor
Theodore L. Kassier, Interim Provost
Renée Carter-Chapman, Vice Provost
Gebeyehu Ejigu, Vice Chancellor for Administrative Services
Susan Ruddy, Vice Chancellor for University Advancement
Linda Lazzell, Dean of Students

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