CATALOG 2002-2003

UNIVERSITY OF ALASKA
ANCHORAGE

3211 Providence Drive
Anchorage, Alaska  99508-8046

www.uaa.alaska.edu
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<td>(907) 786-1921</td>
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<td>Accounting Services</td>
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<td>Advising and Counseling Center</td>
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<td>Eugene Short Building, Room 114</td>
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<td>(907) 786-1205</td>
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<td>Veterans Affairs</td>
<td>(907) 786-1530</td>
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SOURCES OF INFORMATION

SCHOOLS AND COLLEGES
EXTENDED COLLEGES AND SITES
MILITARY EDUCATION SERVICES
AFFILIATE COLLEGE

SCHOOLS AND COLLEGES

College of Arts and Sciences  (907) 786-1707
Web site: www.uaa.alaska.edu/cas/
College of Arts and Sciences Building, Room 335

Community and Technical College  (907) 786-6400
Web site: www.uaa.alaska.edu/ctc/
Allied Health Sciences Building, Room 170

College of Business and Public Policy  (907) 786-4100
Web site: www.cbpp.uaa.alaska.edu
Business Education Building, Room 309

College of Health, Education, and Social Welfare  (907) 786-4406
Web site: www.uaa.alaska.edu/camai/heshome.html
Classroom Building K, Room 217

School of Engineering  (907) 786-1900
Web site: www.engr.uaa.alaska.edu
Engineering Building, Room 201

EXTENDED COLLEGES AND SITES

Chugiak/Eagle River Campus  (907) 694-3313
Web site: www.uaa.alaska.edu/eagle/
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.uaa.alaska.edu/kenai/
Ginger Steffy, Director  FAX (907) 262-9280
34820 College Drive, Soldotna, Alaska 99669

Kenai Peninsula College
Kachemak Bay Branch  (907) 235-7743
Web site: www.uaa.alaska.edu/kenai/
Carol Swartz, Director  FAX (907) 235-6376
533 E. Pioneer Avenue, Homer, Alaska 99603

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
Stephen Sylvester, Director  FAX (907) 745-9747
P.O. Box 2889, Palmer, Alaska 99645

MILITARY EDUCATION SERVICES

Director of Statewide Military Education  (907) 753-7119
4109 Bullard Avenue
Elmendorf AFB, Alaska 99506
FAX (907) 753-8390

ANCHORAGE AREA MILITARY EDUCATION SERVICES

Elmendorf Air Force Base  (907) 753-0204
Dean Terencio, Director  FAX (907) 753-8390
4109 Bullard Avenue
Elmendorf AFB, Alaska 99506

Fort Richardson Army Post  (907) 428-1228
Dean Terencio, Director  FAX (907) 428-1002
Fort Richardson Center
Kiska Hall, Building 658
Fort Richardson Army Post, Alaska 99505

NORTHERN ALASKA MILITARY EDUCATION SERVICES

Fort Wainwright Education Center  (907) 353-6395
Roamona McAfee, Director  FAX (907) 356-3762
Building 2107, Room 99, Montgomery Road
P.O. Box 35449
Fort Wainwright Army Post, Alaska 99703

Clear Education Center  (907) 377-1396
Roamona McAfee, Director  FAX (907) 372-3492
c/o 3124 Wabash Ave. Room 105
Eielson AFB, Ak 99702

Eielson Education Center  (907) 372-3484
Roamona McAfee, Director  FAX (907) 372-3492
3124 Wabash Ave. Room 105
P.O. Box 4510
Eielson AFB, Alaska 99702

AFFILIATE COLLEGE

Prince William Sound Community College  (907) 834-1600
Web site: www.uaa.alaska.edu/pwscc/
Dr. JoAnn McDowell, President  1-800-478-8800
P.O. Box 97
Valdez, Alaska 99686
with Centers at Cordova and Copper Basin
CERTIFICATES AND DEGREES

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

CERTIFICATES

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<td>Refrigeration and Heating Technology (MA)</td>
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<td>Professional Piloting (AI)</td>
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<td>Office Management and Technology (AI, KO, KP, MA)</td>
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<tr>
<td>Nursing (AI)</td>
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<tr>
<td>Medical Laboratory Technology (AI)</td>
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<tr>
<td>Heavy Duty Transportation &amp; Equipment (AI)</td>
<td>183</td>
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<td>Culinary Arts (AI)</td>
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<td>Business Computer Information Systems (AI)</td>
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<td>Aviation Maintenance Technology (AI)</td>
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<td>Early Childhood Development (AI)</td>
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<td>Geographic Information Systems (AI)</td>
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<td>Practical Nursing (AI)</td>
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<td>Refrigeration and Heating Technology (MA)</td>
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<td>Small Business Management (KP)</td>
<td>136</td>
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<tr>
<td>Structural Drafting (AI, MA)</td>
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<tr>
<td>Telecommunications and Electronics Systems (AI)</td>
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<td>Welding Technology (KP)</td>
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Associate of Applied Science

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<td>Geomatics (AI)</td>
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<td>Human Services (AI, MA)</td>
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<td>Industrial Process Instrumentation (KP)</td>
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Bachelor of Arts

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Bachelor of Human Services

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Bachelor of Liberal Studies

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Bachelor of Social Work

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Master of Arts (Continued)

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<td>Geology (AI)</td>
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<td>History (AI)</td>
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<tr>
<td>Journalism and Public Communications (AI)</td>
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<td>Justice (AI)</td>
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<td>Languages (AI)</td>
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<td>Mathematics (AI)</td>
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<td>Social Welfare Studies (AI)</td>
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<td>Sociology (AI)</td>
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<tr>
<td>Theatre (AI)</td>
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<td>Women’s Studies (AI)</td>
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Master of Arts in Teaching

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Master of Business Administration

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Master of Education

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<td>Educational Leadership (AI)</td>
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<td>Master Teacher (AI)</td>
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Master of Fine Arts

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Master of Public Administration

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Master of Science

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<td>Biological Sciences (AI)</td>
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<td>Civil Engineering (AI)</td>
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<td>Clinical Psychology (AI)</td>
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<td>Environmental Quality Engineering (AI)</td>
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<td>Global Supply Chain Management</td>
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<td>Interdisciplinary Studies (AI)</td>
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<td>Nursing Science (AI)</td>
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<td>Science Management (AI)</td>
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Master of Social Work

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<tr>
<td><strong>Fall Semester 2002</strong></td>
<td><strong>Spring Semester 2003</strong></td>
</tr>
<tr>
<td>-----------------------</td>
<td>--------------------------</td>
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<tr>
<td><strong>August 1, 2002</strong></td>
<td><strong>November 4, 2002</strong></td>
</tr>
<tr>
<td>Application for Admission Deadline Fall 2002</td>
<td>WolfLine and Wolflink Registration begins</td>
</tr>
<tr>
<td><strong>August 26, 2002</strong></td>
<td><strong>January 13, 2003</strong></td>
</tr>
<tr>
<td>Instruction begins</td>
<td>Instruction begins</td>
</tr>
<tr>
<td>Late Registration begins</td>
<td>Late Registration begins</td>
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<tr>
<td><strong>September 2-3, 2002</strong></td>
<td><strong>January 20, 2003</strong></td>
</tr>
<tr>
<td>Labor Day (UAA closed Sept. 2)</td>
<td>University of Alaska Civil Rights Day in Honor of Martin Luther King, Jr. UAA closed</td>
</tr>
<tr>
<td>No classes Sept. 3</td>
<td><strong>January 10, 2003</strong></td>
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<tr>
<td><strong>September 13, 2002</strong></td>
<td>May Graduation Application Deadline</td>
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<tr>
<td>December Graduation Application Deadline</td>
<td><strong>March 17, 2003</strong></td>
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<td><strong>October 25, 2002</strong></td>
<td><strong>March 23-29, 2003</strong></td>
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<tr>
<td>Independent/Directed Study Deadline</td>
<td>Spring Break (No classes) UAA closed</td>
</tr>
<tr>
<td><strong>November 27-December 1, 2002</strong></td>
<td><strong>April 27 - May 3, 2003</strong></td>
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<tr>
<td>Thanksgiving Holiday (no classes) UAA closed (Nov. 28 &amp; 29)</td>
<td>Final exam week (See Class Schedule for specific information)</td>
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<tr>
<td><strong>December 1, 2002</strong></td>
<td><strong>May 1, 2003</strong></td>
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<tr>
<td>Application for Admission Deadline Spring 2003</td>
<td>Summer Application for Admission Priority Deadline</td>
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<tr>
<td><strong>December 9-15, 2002</strong></td>
<td><strong>May 3, 2003</strong></td>
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<tr>
<td>Final exam week</td>
<td>Instruction ends</td>
</tr>
<tr>
<td><strong>December 15, 2002</strong></td>
<td><strong>May 4, 2003</strong></td>
</tr>
<tr>
<td>Instruction ends</td>
<td>Commencement</td>
</tr>
<tr>
<td><strong>December 19, 2002</strong></td>
<td><strong>May 8, 2003</strong></td>
</tr>
<tr>
<td>Grades available on WolfLine and Wolflink</td>
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*This calendar is subject to change by the university administration and/or Board of Regents. The academic calendar printed in the semester class schedules will contain detailed and updated information.*
CHAPTER 1

WELCOME TO UAA

Welcome to UAA
Mission Summary
Anchorage (Goose Lake) Campus
Kenai Peninsula College
Kodiak College
Matanuska-Susitna College
Administrative Organization
International Studies
Affirmative Action
Harassment
Safety
Accreditation
Anchorage Campus Student Profile
One academic school and four colleges form the base of the university’s academic mission. The College of Arts and Sciences hosts over 22 academic disciplines in the natural and social sciences, the humanities, and the fine and performing arts. The Community and Technical College houses a full suite of technical, vocational, and allied health programs as well as the university’s Adult Learning Center which offers adult basic education programs and the G.E.D. The College of Health, Education, and Social Welfare encompasses the School of Education, the School of Nursing, School of Social Work, and includes programs in human services and justice. The College of Business and Public Policy offers study in accounting, management, economics, and computer information systems. The School of Engineering offers programs in geomatics, civil engineering, environmental quality, and engineering management.
Students govern vital aspects of student life and fosters student leadership as does Club Council, which represents over 67 student interest clubs. The student-run radio station (KRUA) and newspaper, The Northern Light, have both won national and state awards, as has the UAA Speech and Debate team.

We hope you will consider living in one of our three new residence halls which opened in 1998. Student housing, the Commons, and the Campus Center serve as the hub for student activities and create a rich and diverse campus life.

Adding excitement to UAA’s campus life are its intercollegiate sports programs. Nicknamed the Seawolves, University of Alaska Anchorage’s athletic teams compete as members of the NCAA Division II in basketball, volleyball, gymnastics, and skiing for women, and basketball, skiing, and cross-country running for men. UAA competes in Division I ice hockey (WCHA). Seawolf teams regularly rank among the nation’s best and have produced many All-American and Academic All-American performers.

We encourage you to take full advantage of the resources and opportunities available to you and wish you a rich and rewarding experience at UAA.

**MISSION SUMMARY**

The University of Alaska Anchorage inspires learning and enriches Alaska, the nation and the world through our teaching, research, creativity and service. As the urban center of the University of Alaska System, UAA is a comprehensive metropolitan University located in Anchorage with community campuses serving Southcentral Alaska. We provide opportunities to all who can benefit from educational programs of high quality.

**ANCHORAGE (GOOSE LAKE) CAMPUS**

The Goose Lake campus is located in Alaska’s largest city. Anchorage is an international air crossroads and the business center of the state. Home to approximately 260,000 people, Anchorage is metropolitan and culturally diverse. Special events include the Anchorage Fur Rendezvous, one of the ten largest festivals in the nation, and the Great Alaska Shootout Basketball Tournament.

Located at UAA Drive and Providence Drive, the attractive wooded campus serves as a cultural hub for the city, providing theatre, music, arts, and sports events. Built in the mid-1960s, the campus features modern facilities, serving 15,000 students with limited student housing. Careful development has left the campus an urban oasis with resident wildlife populations including moose, waterfowl, and birds.

The Anchorage campus offers programs which lead to vocational and professional certificates, associate, baccalaureate, and master’s level degrees. It also provides extensive adult, community, and continuing education offerings. The campus hosts a wide range of popular seminars and symposia for career development.

Academic units located on the campus include the College of Arts and Sciences, College of Business and Public Policy, College of Health, Education and Social Welfare, Community and Technical College, and the School of Engineering. Over 80 departments are active within the schools and colleges.

The diversity of student needs has led to extensions of the Anchorage campus in the city and service region. One of the larger sites which is coordinated through the Community and Technical College is the Chugiak-Eagle River Campus.

**CHUGIAK-EAGLE RIVER CAMPUS**

Located in the communities of Eagle River and Chugiak, ten miles north of Anchorage, this extended Campus offers a wide variety of General Education and degree oriented courses. Most classes are scheduled in the evenings or weekend making this Campus accessible to working students and high school students wanting a head start on their college education.

Classes are held at both Chugiak High School and the Eagle Center facility. The Eagle Center location houses registration and administrative offices as well as six classrooms, one being a large modern computer lab. There is also a Learning Center open to students, including a study area with computers for class work or connecting to the Internet. For more information, call (907) 694-3313 or visit their web site at www.uaa.alaska.edu/eagle.

**KENAI PENINSULA COLLEGE**

Kenai Peninsula College (KPC) is located on 364 acres between Kenai and Soldotna. The 83,660 square foot campus includes a vocational building, academic classrooms, computer and science laboratories, a library and media center, a bookstore, and a snack bar/commons area.

With approximately 1600 students and 23 full-time faculty, KPC has grown into a comprehensive college offering a variety of programs to meet vocational, academic, and community needs. The programs offered at KPC include complete associate of arts and applied science degrees, course work leading to baccalaureate degrees, vocational programs, and continuing education and personal development courses.
The Kachemak Bay Branch of KPC is located on Pioneer Avenue in Homer and serves as the focus of the College’s programs and services on the southern Kenai Peninsula. Full-time and adjunct faculty offer courses leading to associate of arts and associate of applied science degrees in accounting, small business administration, human services and office technology. A wide range of continuing education courses is also available.

**KODIAK COLLEGE**

Kodiak College, located on an island 250 air miles south of Anchorage, serves over 800 students per semester and includes outreach sites in 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, GED preparation, and special interest, continuing education, vocational technical courses, and support for distance education.

The campus is a cultural center in the community, sponsoring events such as readings, lectures, seminars, art shows, and exhibits.

**MATANUSKA-SUSITNA COLLEGE**

Mat-Su College serves over 1,400 students. The campus is located on 950 wooded acres on Trunk Road, about halfway between Wasilla and Palmer, the two largest communities in the Matanuska Valley. A modern 98,000 square foot facility houses a library, computer labs, student advisement center, learning resource center, science and vocational labs, modern classrooms, childcare center, bookstore and cafeteria/snack bar. The college provides a number of services to the community organizations including meeting facilities.

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. Mat-Su offers certificates in Electronics Technology, Office Technology, and Refrigeration and Heating Technology. Associate of Applied Science degrees are offered in Accounting, Electronics Technology, Fire Service Administration, Human Services, Office Management and Technology, Refrigeration and Heating Technology, Small Business Administration, and, in cooperation with UAF, Microcomputer Support Specialist.

**ADMINISTRATIVE ORGANIZATION**

The University of Alaska Anchorage administration is organized into four divisions: Academic Affairs, Administrative Services, Student Affairs, and University Advancement. The Chancellor of the University of Alaska Anchorage is responsible for all four divisions.

Other Units reporting to the Chancellor include:

- American Russian Center
- Campus Diversity and Compliance
- Governance
- Office of Planning, Research, and Assessment
- Prince William Sound Community College

**ACADEMIC AFFAIRS**

Academic Affairs oversees UAA’s instructional units and academic support offices. These include the schools, colleges, centers, and institutes that offer credit and non-credit programs at all academic levels, certificate through graduate.

**Units reporting to the Provost include:**

- Honors Program
- College of Arts and Sciences
- College of Business and Public Policy
- College of Health, Education and Social Welfare
- Community and Technical College
- School of Engineering
- Kenai Peninsula College
- Kodiak College
- Matanuska-Susitna College
- Academic Center for Excellence
- Centers and Institutes
- Consortium Library
- Enrollment Services
- Information Technology
- Student Financial Aid
- Summer Sessions

**ADMINISTRATIVE SERVICES**

The Administrative Services Division oversees fiscal, logistical and physical plant services which directly support all aspects of UAA.

**Units reporting to the Vice Chancellor for Administrative Services include:**

- Athletics
- Budget and Finance
- Business Services
- Facilities and Campus Services
- Human Resource Services
- University Police Department

**STUDENT AFFAIRS**

Student Affairs helps students to succeed within and outside of the formal academic classrooms and labs. It provides educational, social, cultural and academic support services which complement intellectual development.

**Units reporting to the Dean of Students for Student Affairs include:**

- Campus Life
- Career Services Center
- Disability Support Services
- Residence Life
- Student Health Center
- Student Leadership
UNITED STATES DEPARTMENT OF LABOR  
Building, Anchorage, Alaska  

Allegations of discrimination in employment and education that pertain to the University are the 5th and 14th Amendments of the US Constitution, Section 1981 of the Civil Rights Act of 1866, the Civil Rights Act of 1871, Equal Pay Act of 1963, Title VI and Title VII of the 1964 Civil Rights Act, the Age Discrimination in Employment Act of 1967, Executive Order 11246 as amended, Titles VII and VIII of the Civil Rights Act of 1968, the Americans with Disabilities Act of 1990, the Civil Rights Act of 1991, the Rehabilitation Act of 1992, the Family Medical Leave Act of 1993, and Alaska State Statutes Chapters 14 and 18. Inquiries regarding application of these laws and other regulations should be directed to the UAA Office of Campus Diversity and Compliance (907 786-4680); the Human Resource Services Department (907 786-4608); the Office of Civil Rights (Department of Education, Washington, D.C.); the Equal Employment Opportunity Commission (Seattle, WA); the Office of Federal Contract Compliance Programs, Department of Labor (Anchorage, AK); or the Alaska State Commission for Human Rights (Anchorage, AK). 

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 — particularly sexual harassment — has no place in the University. It subjects its victims to pressures that destroy the conditions necessary for true learning. 

Harassment is neither condoned nor tolerated on this campus. Members of the University community who exercise most authority and leadership — faculty and supervisors — are principally responsible for maintaining a positive, harassment-free learning environment. Anyone who believes they have been a victim of harassment should contact the appropriate dean’s or director’s office, the Advising and Counseling Center, 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  

We care about your safety on campus. While relatively safe, our campus is not a sanctuary from crime, and accidents still occur, no matter how hard we try to prevent them. You are encouraged to be responsible for your own safety and to bring safety concerns to the attention of UAA faculty or staff, or to contact University Police at (907) 786-1120 when you observe an unsafe environment. For your own safety, please also take the time to locate the nearest exits and emergency telephones when you are in campus buildings. For more safety information visit www.uaa.alaska.edu/studentaffairs/safety/.

INTERNATIONAL STUDIES 

UAA is a comprehensive urban university that serves the population of Alaska. As an institution of higher learning, it seeks to provide programs that introduce the widest possible range of knowledge through exposure to diverse ideas, cultures, civilizations, languages, literatures, sciences, technologies, and professions. To achieve this goal, UAA is internationalizing its programs, research, and other activities. UAA enrolls more students from Russia than any other university in the country. 

The University of Alaska calls for the development of international distinction in knowledge of the North Pacific and Circumpolar Regions. The federal government has identified UAA as the institutional focus for a Soviet-USA Cooperative Research Agreement on Circumpolar Health. 

International Programs are rapidly developing at UAA. They include a Canadian Studies Program, the Institute for Circumpolar Health Studies, and the American Russian Center. Future developments may include area studies in the Pacific Rim and Circumpolar Regions. 

Students may have the opportunity to take courses and participate in the research and activities of the various internationally engaged centers and units.

AFFIRMATIVE ACTION  

Through the institution’s Affirmative Action Plan, the University of Alaska Anchorage 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. 

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, sex, age, physical or mental disability, or veteran status, except as necessary and permitted by law. A student or prospective student who feels that they are being discriminated against has the right to contact the appropriate supervisor for assistance. The student or prospective student may also contact the UAA Office of Campus Diversity and Compliance (907 786-4680), the Human Resource Services Department (907 786-4608), the AHAINA Student Programs Office, Office of Student Affairs and Disability Support Services, or the U.S. Department of Labor (Office of Federal Contract Compliance Programs, Federal Building, Anchorage, Alaska) for advice on discrimination complaints.

Among the federal and state laws and regulations prohibiting discrimination in employment and education that pertain to the University...
ACCREDITATION

The University of Alaska Anchorage is accredited by the Commission on Colleges and Universities of the Northwest Association of Schools and Colleges.

The following programs have additional approval and/or accreditation:

ALASKA OUTDOOR AND EXPERIENTIAL EDUCATION
Accreditation by the Association for Experiential Education

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

AVIATION MAINTENANCE TECHNOLOGY
Certificate
Associate of Applied Science
Approved by the Federal Aviation Administration

BUSINESS
Bachelor of Business Administration
Master of Business Administration
Accredited by the International Association for Management Education (AACSBB)

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 Committee of the Accreditation Board for Engineering and Technology (ASAC/ABET)

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

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 (NAACLGS)

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

PROFESSIONAL PILOTING
Associate of Applied Science
Bachelor of Science in Aviation Technology
Flight School is approved by the Federal Aviation Administration

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

TECHNOLOGY
Bachelor of Science
Education Option is 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).

ANCHORAGE CAMPUS STUDENT PROFILE

FALL CLOSING STATISTICS 2001
Percentages may not add up to 100% due to rounding.

RACE:

- African-American: 4.5%
- Alaska Native: 6.6%
- American Indian: 1.4%
- Hispanic: 4.1%
- Pacific Islander/Asian: 5.6%
- White: 73.5%
- Other/Unspecified: 4.3%

AGE:

- 19 and under: 15.7%
- 20-24: 28.9%
- 25-29: 14.6%
- 30-34: 10.0%
- 35-39: 8.2%
- 40-44: 7.3%
- 45 and over: 15.2%
- Unspecified: 0.1%
CHAPTER 2

ENROLLMENT SERVICES

Open Enrollment
New Student Services
Registration
Exchange Programs
Other Enrollment Services
OPEN ENROLLMENT

UAA's open enrollment policy allows students to register for courses in which they have adequate background. To qualify for open enrollment, a student must:

1. Have earned a high school diploma or the equivalent (GED), or;
2. Be 18 years of age or older and have participated in UAA's assessment and advisement process (see section below), or;
3. Qualify under special University programs.

UAA's open enrollment policy does not guarantee subsequent formal admission to certificate or degree programs. In addition to meeting the University's open enrollment criteria, applicants for formal admission may need to satisfy other individual program or degree level requirements.

The formal admission process for undergraduate programs (certificate, associate, baccalaureate) is described in Chapter 9 of this catalog. The formal admission process for graduate programs is described in Chapter 10 of this catalog.

HIGH SCHOOL NON-GRADUATES

Individuals 18 years of age and over who do not have a high school diploma or GED may still enroll in classes under Open Enrollment. They may be admitted to most associate programs under UAA's open enrollment policy once assessment and advisement have taken place.

Interested persons should contact the advising center at their local campus. An advisor reviews the individual’s background, provides an opportunity for assessment, and determines the appropriate entry level of instruction.

INTERNATIONAL STUDENTS

UAA welcomes students from other countries. International students with Permanent Resident or Immigrant visas may enroll under the open enrollment option or through formal admission. Individuals wanting to apply for the International Student Form I-20A must be formally admitted to degree-seeking status. See the International Student Policy and the Admissions sections of this catalog. Individuals with other visa types are advised to contact the International Student Advisor in Enrollment Services for information.

NON-DEGREE-SEEKING STUDENTS

Individuals in this category are not currently seeking a UAA certificate or degree. Non-degree-seeking students need only meet open enrollment criteria and satisfy course prerequisites to register in courses. Non-degree-seeking students who wish to register for graduate courses must obtain department chair or faculty member signature or appropriate approval. Non-degree-seeking students do not qualify for financial aid or immigration status.

Registration as a non-degree-seeking student implies no commitment by the University to the student’s later admission to a degree program.

UNDERAGE STUDENTS

An underage student is one who is under 18 years of age and does not otherwise meet the requirements for open enrollment or admission. In order to register for University courses, underage students must:

1. Qualify under a special University program.

2. Complete the UAA Underage Student Signature Form. This form may be obtained from Enrollment Services and requires signatures of the student’s parent or guardian, school principal and/or counselor, UAA course faculty member(s), and the approval of the Director of Enrollment Services, or when the student wishes to enroll at an extended college, the director of that college. Please note that all signatures must be obtained prior to submitting the form to the Director of Enrollment Services or to the director of an extended college.

Underage students may enroll in a maximum of seven credits per semester. An approved, signed underage enrollment form must be submitted each semester.

NEW STUDENT SERVICES

The Office of New Student Services provides campus tours. Enrollment Services sponsors the Freshman Early Admit Program. Freshmen applying to UAA for the coming fall semester may participate in priority registration in early spring. Students in this program meet with advisors, enroll in courses, and participate in other activities.
REGISTRATION

Registration can be conducted in person or by phone (WolfLine Registration) or on-line Web Registration preceding the beginning of each semester. Registration is available to all students who attended the previous semester or who have submitted a completed UAA Registration Access Form. Registration is available during the dates listed in the class semester schedule. The UAA Registration Access Form allows prospective students access to register for courses under UAA’s Open Enrollment Policy. However, it does not constitute formal admission to any of the degree/certificate programs offered at UAA. Prospective students need to refer to chapter 9 regarding formal admission procedures to the University.

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 classes is not allowed after the tenth day of the semester. Even if a student has 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 fees are paid. The University holds students academically and financially responsible for their registration. After registering, if a student changes plans or becomes unable to attend, the courses must be dropped or withdrawn within published deadlines in order to avoid a final grade of “F” for non-attendance. The 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/drop courses throughout the late add/drop period.

Caution: Dropping or auditing courses may affect eligibility for future financial aid. Financial aid students should check with the UAA Financial Aid Office before dropping or auditing a course.

All students are encouraged to meet with a faculty advisor prior to each semester; however, the primary responsibility for meeting University requirements is the student’s. Non-credit and Continuing Education Unit courses have special registrations. Contact the Community and Technical College for more information about these courses.

Not every course listed in this catalog is offered each semester. Each semester Class Schedule lists course and registration information specific to that semester.

REGISTRATION THROUGH COMMUNITY AND TECHNICAL COLLEGE

The Community and Technical College offers ongoing registration for their courses from the time a course is announced until the course begins. For regular semester length courses, course registration follows the registration schedule published in the semester class schedule. Register weekdays in the Diplomacy Building at the corner of Tudor Rd. and Tudor Centre Dr., Suite 501, between 8:00 am and 5:00 pm (907) 786-6721, or the Chugiak-Eagle River Campus at the Eagle Center (907) 694-3313.

BIOGRAPHIC/DEMOGRAPHIC INFORMATION

The University of Alaska Anchorage 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 does not discriminate on the basis of this information but 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.

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 option of 1) registering for at least one graduate-level credit applicable to their graduate degree or 2) paying the continuous registration fee that will allow students 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 semester if they use university facilities or consult with faculty during the summer.

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.

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. These forms are available in the Class Schedules or from the Enrollment Services Information Center. The proxy must follow the policies and calendar governing registration. Proxy registrations are not accepted without written permission from the student.

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. If a change in a student’s class schedule becomes necessary, semester-length courses may be changed according to the chart on page 18.

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. Terms for auditing the course are determined by the faculty. Faculty may request the course be changed to a withdrawal status if the student fails to comply with the agreed-upon terms. Submission of papers for correction and grading and participation in laboratory experiences are at the discretion of the faculty.

Students who audit classes are required to meet prerequisites, register and pay tuition and/or fees. During weeks 1 and 2 of the semester, audit-to-credit requires faculty signature. Audit-to-credit changes are not allowed after week 2 of the semester. During weeks 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.
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):**

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

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

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

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

**CHANGE IN GRADING OPTION**
The grading option for a course may be changed as follows:

<table>
<thead>
<tr>
<th>Desired Change</th>
<th>Weeks 1 through 2 of Semester</th>
<th>Weeks 3 through 12 of Semester</th>
<th>After Week 12 of Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CREDIT / NO CREDIT</strong></td>
<td>Fee charged. Form filed with Enrollment Services.</td>
<td>Not permitted.</td>
<td>Not permitted.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Desired Change</th>
<th>Weeks 1 through 2 of Semester</th>
<th>Weeks 3 through 12 of Semester</th>
<th>After Week 12 of Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CREDIT TO AUDIT</strong></td>
<td>Fee charged.</td>
<td>Faculty signature required. Fee charged. Form filed with Enrollment Services.</td>
<td>Not permitted.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Desired Change</th>
<th>Weeks 1 through 2 of Semester</th>
<th>Weeks 3 through 12 of Semester</th>
<th>After Week 12 of Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AUDIT TO CREDIT</strong></td>
<td>Faculty signature required. Fee charged. Form filed with Enrollment Services.</td>
<td>Not permitted.</td>
<td>Not permitted.</td>
</tr>
</tbody>
</table>
CANCELLATION OF CLASSES
The University of Alaska Anchorage reserves the right to cancel or combine classes, to change the time and 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.

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., 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.

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.

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

SOCIAL SECURITY NUMBER
A student’s social security number is used as an identification number for University records. Students who do not wish to use their social security number may request an assigned student number. Assigned student numbers are not acceptable for federal financial aid purposes or for students who also have University employment records. Changes or corrections to social security numbers require documentation, i.e., driver’s license or social security card.

STUDY 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 at registration.

The faculty advisor and appropriate dean must approve overload requests for certificate or degree-seeking students. An advisor in the local UAA advising 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 remedial 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 study load, students should also keep non-school demands on available time, such as employment and/or family responsibilities, firmly in mind.

TRANSCRIPTS
Official transcripts of all course work taken at UAA may be requested from Enrollment Services. Requests must be written and must bear the signature of the student whose record is requested. A fee is charged for each copy and must be paid in advance.

Requests for transcript service are not filled for students who have not signed a request, or who have unpaid financial or other obligations to the University.
EXCHANGE PROGRAMS

NATIONAL STUDENT EXCHANGE PROGRAM

The University of Alaska Anchorage is a member of the National Student Exchange Program. This is a domestic student exchange with a consortium of over 120 colleges within the United States, Guam and Puerto Rico. For further information, please contact the National Student Exchange Coordinator, (907) 786-1558.

STUDY ABROAD AND INTERNATIONAL EXCHANGE

Study Abroad and International Exchange programs can broaden your view of the world while contributing academic credit toward your degree at UAA. In a study abroad experience you can master a foreign language, explore new lands and learn about other cultures. Study Abroad and International Exchange have an important role to play in the larger process of instilling citizens with global awareness, as well as preparing graduates of the university for many career opportunities that involve international affairs. We encourage students to begin planning for a Study Abroad or International Exchange experience early in their UAA careers.

Prior to leaving UAA, courses selected to be completed through the Study Abroad Program must be approved by your UAA academic advisor. Courses completed through the Study Abroad Program are considered resident credit. International Exchange Program students receive resident credit by enrolling for their courses at UAA. You may use your Alaska Student Loan and many other types of financial aid to study abroad. Please inquire at the Financial Aid office. All students must conform to the regulations and laws of both the home institution and the host institution while attending school abroad. It is the responsibility of the individual student to become familiar with the policies and regulations of UAA. Students are responsible for their transportation to the site, housing, food and incidental expenses at the host institution.

Applications for admission to a Study Abroad program must be received by March 31 for the Fall semester and September 30 for the Spring semester.

There are several options available for studying abroad, University of Salamanca, University of Seville or University of Granada in Spain, Russia at the Northern International University of Magadan, Australia at Deakin University, Denmark at the University of Copenhagen, or in any of the Northwest Council on Study Abroad programs (London, England; Angers, France; Siena, Italy; Athens, Greece; Vienna, Austria; Macerata, Italy; Oviedo, Spain).

University of Hull - UAA students are invited to participate in a junior year abroad (JYA) at the University of Hull in Hull, England. Located 3 hours north of London by train in a quaint fishing village, the University of Hull is a traditional British University offering a wide variety of quality academic programs.

Northern International University of Magadan - The International Pedagogical University of Magadan is located in Okhotsk in the Russian Far East. Magadan is the capital city and business hub of the Magadan region.

Deakin University - The five campuses of Deakin University are located within the scenic state of Victoria in the Southeast corner of Australia. Exchange students from UAA are allowed to attend any one of the five campuses on a one to one student exchange program.

University of Copenhagen - Located in Copenhagen, Denmark’s beautiful capital and affiliated with the University of Copenhagen, DIS, Denmark’s International Study Program offers a top quality academic and cross-cultural experience.

Contact UAA Office of International Programs, (907) 786-1558.

NORTHWEST COUNCIL ON STUDY ABROAD (NCSA)

UAA belongs to NCSA (the Northwest Council on Study Abroad), a consortium of colleges and universities in the Pacific Northwest that pool their resources to provide study abroad programs in Europe at modest cost. NCSA programs offer three terms per year (September through December, January through March, and April through June); students may elect to attend successive terms at the same or different sites. Intensive language study is offered (except in London), as well as content courses, primarily in the social sciences and humanities, taught in English. Home stays offer a chance to practice the language, develop close personal ties and experience the everyday culture of the country.
The vibrant metropolitan center of England, London offers a ceaseless banquet of cultural events and performances. Courses are held in central London, near the British Museum.

Siena, Italy is located in the Tuscany Hills, 40 miles from Florence. Language instruction is included, and no prior study of Italian is required. Content courses often stress art and architecture, both of which are abundant in and around Siena. Students share apartments with American and Italian students.

Angers, France has been described as a “bright and radiant city” and is located in the western portion of the Loire Valley between the Maine and Loire rivers. Within its white walls are some of the most beautiful and prolific gardens in France, as well as the oldest and largest collection of medieval tapestries in the world, which hang in the 13th century Chateau d’Angers. The arts in all forms –theatre, dance, music and visual arts are of major significance. The region is also noted for its quality of language; it’s said the purest form of French is spoken here. From abundant flowers, wines, museums and galleries to it’s cobbled streets that wind through the Gothic and Renaissance neighborhoods on their way to the market place, this is a city that is medieval and contemporary.

For information and applications contact:
UAA Office of International Services
Enrollment Services
Administration Building, Room 176
(907) 786-1558

WESTERN UNDERGRADUATE EXCHANGE

The University of Alaska Anchorage participates in the Western Undergraduate Exchange (WUE), a 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 the University of Alaska Anchorage 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 the University of Alaska Anchorage may be obtained from Enrollment Services. Alaska residents may obtain information about WUE programs in other states from either of the following two addresses:

Certifying Officer for Alaska Commission on Postsecondary Education
3030 Vintage Blvd.
Juneau, AK 99811 Phone: (907) 465-2855

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

OTHER ENROLLMENT SERVICES

Students and prospective students are invited to call (907) 786-1480 or visit Enrollment Services in the Administration Building for general information, enrollment advising, and processing services. For more information about undergraduate admissions and degree programs, please see Chapter 9. For more information about graduate admissions and degree programs, please see Chapter 10.

Services and Programs coordinated through Enrollment Services include:

- Academic Petitions
- Admission Counseling
- Admission Processing
- Application for Graduation
- Campus tours (conducted by Student Ambassadors)
- Catalog and schedule distribution to school districts and public agencies throughout the state
- Chancellor’s Scholarship Program
- Change of Student Name or Address
- Class Schedules
- Course Catalogs
- Directed Study
- Educational Opportunity Center
- Enrollment Advising
- Enrollment Certification
- General Information
- Grades
- High School and College Visitation Program
- Independent Study
- International Student Advising and Documentation Services for F-1 Student Visas
- Military Education Evaluations
- National Student Exchange Program
- Registration by Proxy
- Registration Procedures: Add/Drop, Withdrawal, Audit-to-Credit, Credit-to-Audit, Credit/No Credit
- Sponsorship of Alaska Career and College Fair, Counselor Day, and other outreach activities for prospective students
- Student Ambassador Program: students recruiting students
- Study Abroad and International Exchange Programs
- Transcripts
- Transfer Credit Evaluation
- Under-Age Enrollment
- Who’s Who Among College and University Students

For further information, please call (907) 786-1480.
CHAPTER 3

TUITION, FEES, AND FINANCIAL AID

Residency for Tuition Purposes
  Tuition Summary
  Typical Fees
  Financial Obligations
  Payment Procedure
  Refund Policy
Petition for Exception to University Policy on Refund of Tuition and Fees
Senior Citizen Tuition Waiver
Student Financial Aid
Satisfactory Academic Progress Policy
  Grants
  Loans
  Scholarships
Student Employment
Veterans Assistance
RESIDENCY FOR TUITION PURPOSES

Any person who, at the time of registration, has been physically present in Alaska for one year (excluding only vacations or other absence for periods not exceeding an aggregate of 120 days with intent to return) and who declares intention to remain in Alaska indefinitely shall be deemed resident for purposes of tuition charges. However, any person who, within one year of registration has declared residency in another state, voted in another state, or done any act inconsistent with Alaska residence shall be deemed a nonresident for purposes of tuition charges. An unemancipated person under the age of 18 who has a parent or guardian who qualifies as an Alaskan resident, as defined above, shall be deemed a resident for purposes of tuition charges. Members of the U.S. military on active duty and their dependents members of the Alaska National Guard and their dependents are considered residents for tuition purposes.

An international student in F-1 status or in any other non-immigrant visa status cannot be considered a resident for tuition purposes. Non-immigrant visa status is inconsistent with Alaska residency. An international student who is a legal permanent resident or who is in refugee status or another status which permits an indefinite stay in the United States may qualify as a resident for purpose of tuition purposes provided they meet the other conditions of residency.

For purposes of tuition charges, the following shall be deemed resident:

- All active duty United States military personnel and their dependents, regardless of their state residency status.
- All members of the Alaska National Guard and their dependents, regardless of whether they yet qualify as residents of the state under any other requirements.
- All students who are children of a person who graduated and holds a degree from the University of Alaska.
- All students in WICHE, WRGP, WUE (Western Interstate Commission on Higher Education, Western Regional Graduate Program, Western Undergraduate Exchange Plan). [Note: Special rates apply to these programs].
- All students enrolled in four or fewer credit hours during a semester.
- All residents of the Yukon and Northwest Territories.
- All Students from states whose public universities waive nonresident tuition surcharges for Alaska residents based upon a reciprocal agreement.
- All students from foreign cities and provinces which establish sister city or sister province relationships with the state of Alaska or Alaskan municipalities and which have been approved by the president.

TUITION SUMMARY

TUITION COSTS:

Lower-division—Undergraduate (Course Numbers 050 - 299)
- Resident $82.00 per credit hour
- *Non-resident $256.00 per credit hour

Upper-Division—Undergraduate (Course Numbers 300 - 499)
- Resident $93.00 per credit hour
- *Non-resident $267.00 per credit hour

Graduate
- Resident $184.00 per credit hour
- *Non-resident $358.00 per credit hour

* Non-resident students who restrict their enrollment to no more than four credits each semester are charged resident tuition.
* Non-resident students are assessed non-resident fees on all academic credits including self-support.

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. The University reserves the right to change its fees at any time.

TYPICAL FEES

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

Add Fee (per transaction) ........................................... 5
Administrative Fee .................................................. Varies
Admission Fee (non-refundable) ................................ 35-45
Certificate ................................................................. 35
Associate Degree ....................................................... 35
Baccalaureate Degree ............................................... 45
Graduate Degree ....................................................... 45
ASSET Placement Fee ................................................. 10
Audit Fee ................................................................. Varies
Cancelled Registration Fee (CRF Fee) ....................... 50-100
Catalog .................................................................. 6
Continuing Education Unit (CEU) Fee ......................... Varies
Credit-by-Exam Fee (per credit) ............................... 40
Credit for Prior Learning Evaluation Fee .................... 75
Credit for Prior Learning Fee (per credit) .................... 15
Distance Fee ............................................................. Varies
Drop Fee (per transaction) ........................................... 5
Continuous Registration Fee ...................................... 184
Graduation Application Fee ...................................... 20
Laboratory, Material, and Other Fees ....................... Varies
Language Credit by Placement Fee (per course) ........... 20
Late Registration Fee ................................................. 50
Music Lesson Fee (per credit) ..................................... 215
Non-Credit Course Fee ............................................. Varies
Parking Fee (optional, non-refundable, per semester/annual) range 35-130
Self Support Fee ....................................................... Varies
Student Activity Fees (for 3-5 credits) ...................... 23
Student Activity Fees (for 6 plus credits) ................. 77
Student Health Center Fee (6 or more credits) ........... 39
Student Credentials Fee .......................................... 35
Technology Fee ........................................................ 5
Transcript Fee .......................................................... max 60
Tech Prep Course Fee (per credit) ......................... 13
Transcript Fee (per copy) ........................................ Max 60

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 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 option of 1) registering for at least one graduate level credit applicable to their graduate degree or 2) paying the continuous registration fee that will allow students to remain active in the graduate program although not registered in any courses.

CREDIT-BY-EXAM FEE

A non-refundable $40-per-credit fee is charged to challenge a course.

CREDIT FOR PRIOR LEARNING EVALUATION FEE

A $75 non-refundable fee is assessed when the student files a Credit for Prior Learning Application.

CREDIT FOR PRIOR LEARNING FEE

A $15-per-credit fee is assessed for each credit awarded through the Credit for Prior Learning Program.

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.

MANDATORY STUDENT FEES

Student Life Fees

Students (including underage students) enrolled in six or more credits and having at least one course (three credits or more) on the Anchorage campus are assessed mandatory student life fees per semester for access to student-related programs and facilities: an Athletics Program Fee, a PE Facility Use Fee, and a Student Activities Fee.

Students enrolled in at least one academic credit but not meeting the enrollment requirements above, whether enrolled on or off campus, (or non-credit students enrolled for 200 or more contact hours in one semester) may elect to pay these fees per semester in order to have access to these student programs and facilities.

Summer session students enrolled in three or more credits on the Anchorage campus are assessed the PE Facility Use Fee and Student Activities Fee. There is no Athletics Program Fee assessed in Summer.

Student Health Center Fee

Students (including underage students) enrolled in six or more credits and having at least one course (three credits or more) on the Anchorage campus are assessed a mandatory Student Health Center Fee per semester for access to campus health services and programs.

Students taking six or more credits and having all courses off campus may elect to pay this fee per semester in order to have access to the services provided by the Student Health Center.

Students enrolled in less than six credits are not eligible for these services and may not pay this fee.

Student Organization Fees

Students (including underage students) 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, Concert Program Fee, and a Student Media Fee for the Northern Light student newspaper and 88.1FM KRUA student radio station. The use of these fees is governed by the Union of Student 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 these student organization programs and services.

Summer session students are not assessed the Concert Program Fee.

*Wendler Junior High, King Career Center, and Aviation Technology Center are considered on-campus facilities for purposes of fee assessment.

MUSIC LESSON FEE

Private music lesson fees are listed in the semester Class Schedule. Registration in private music lessons also requires the signature of the chair of the Music Department.

NON-CREDIT COURSE FEE

Non-credit courses are numbered 001-049. 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 University Lake Building, Suite 100. Decal fees are non-refundable. For further details, contact Parking, (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 CREDENTIALS FILE FEE
A fee is charged to mail out copies of a student’s credentials file.

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 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)

1. 100% of both tuition and course fees is automatically refunded when official drop/withdrawal activity is completed prior to the eighth calendar day of the semester.
2. 50% of tuition only is automatically refunded when official drop/withdrawal activity is completed from 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.
3. No refund is issued for a drop/withdrawal made on or after the thirteenth calendar day of the semester.
4. 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, Administration Building, 3211 Providence Drive, Anchorage, Alaska 99508.

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 timely may not be considered. For example:

   - 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 classes 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, 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, Administration Building, University of Alaska Anchorage, 3211 Providence Drive, Anchorage, Alaska 99508. FAX (907) 786-4888.

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 classes and have tuition waived. Registration is on 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 classes. 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 from Accounting Services or Enrollment Services, both located in the Administration Building.

Note: The student government fee, student activity fee, and student media fee, are waived for senior citizens. Senior citizens wanting use of the PE Facility and free admission to athletic events must pay the PE Facility Use Fee and the Athletic Program Fee. The Student Health Center Fee is mandatory for all students taking six or more credits with a minimum of 3 credits on campus.

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

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.

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).
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.

ELIGIBILITY

To be considered for financial aid, a student must:

1. Have a high school diploma or its equivalent
2. Be accepted for admission with no conditions
3. Demonstrate financial need for federal assistance as determined by the federal Student Aid Report (SAR)
4. Meet satisfactory academic progress as defined by the student

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.

FINANCIAL AID APPEAL POLICY

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. Students who request an appeal for reinstatement of financial aid must provide the following minimum documentation:

1. A letter of explanation from you, the student, explaining the reason(s) for failure to maintain satisfactory academic progress and your plan for successfully completing the next term. Your letter must state what semester you are requesting that your aid be reinstated for and how many credits you plan to enroll in. This letter does not need to be typed, but it must be legible. Be sure to include your full name, social security number, phone number, email address, and your mailing address on any correspondence provided to our office. If you received all failing grades for the proceeding semester, then you will be required to provide proof of last day of attendance before a decision can be rendered. This documentation may be a statement from your professor or graded tests.

In addition to your letter of explanation, you will need to include additional documentation. This documentation must be either a letter from your academic advisor (see #2) or one of the items listed in #3.

2. Failure to maintain satisfactory academic progress (i.e. withdrawal to maintain GPA, withdrawal due to overload, non-medical change in family or work status, receipt of non-passing grade or receipt of a grade that drops GPA below minimum, etc.) requires a letter of support from your academic advisor. This letter must be on department letterhead, dated, signed and contain the printed name of the advisor who wrote the letter.

3. Academic advisors:
   a) Students who are admitted to a general Associate of Arts (AA) degree program or any undeclared bachelor degree must consult a counselor in the Advising and Counseling Center, which is located in room 115 in the Business Education Building (BEB), 786-4500.
   b) Students admitted to an Associate of Applied Sciences (AAS), Bachelor’s of Arts or Sciences (BA or BS) or Master’s of Arts or Science (MA or MS) must consult an academic advisor within the department under which their degree is administered.

1. Supporting documentation from a professional which will be dependent upon the reason for the appeal as follows:
   A. Medical Condition. Students requesting this type of appeal must provide a statement from their doctor or their staff. This statement must be on letterhead or office stationery, must be dated, signed and contain the printed name of the medical staff member who wrote the letter. This letter must state the diagnosis and treatment and the number of credits the student is requesting to be reinstated for. The student must also state the number of credits they plan to enroll in and provide supporting documentation such as a statement from the doctor or a statement from the school. This documentation may be a statement from the doctor or a statement from the school.

   B. Medical Condition. Students requesting this type of appeal must provide a statement from their doctor or their staff. This statement must be on letterhead or office stationery, must be dated, signed and contain the printed name of the medical staff member who wrote the letter. This letter must state the diagnosis and treatment and the number of credits the student is requesting to be reinstated for. The student must also state the number of credits they plan to enroll in and provide supporting documentation such as a statement from the doctor or a statement from the school. This documentation may be a statement from the doctor or a statement from the school.

   C. Military and Military Dependents. Students requesting this type of appeal must provide a statement from their commanding officer or a letter from their service branch certifying that the student was unable to maintain satisfactory academic progress due to military service. This statement must be on letterhead or office stationery, must be dated, signed and contain the printed name of the commanding officer or service branch member who wrote the letter. The statement must state the reason for the failure to maintain satisfactory academic progress and the number of credits the student is requesting to be reinstated for. The student must also state the number of credits they plan to enroll in and provide supporting documentation such as a statement from the commanding officer or service branch member who wrote the letter. This documentation may be a statement from the commanding officer or service branch member who wrote the letter.
**Psychological Duress.** Students requesting this type of appeal must provide a statement from a psychological professional or counseling authority. This statement must be on letterhead or office stationery, must be dated, signed and contain the printed name of the doctor or staff member who wrote the letter. This letter should also indicate when and under what circumstances, if any, the student would be able to return to classes. Medical records are neither required nor acceptable.

I. Appeals for reinstatement due to the medical condition may be considered for a condition affecting an immediate family member if the student is required to care for that family member. Any letter of explanation should indicate this need.

II. Military members and their dependents, who do not have the option to see only one doctor, may provide a signed and dated copy of their medical records covering the time of illness or injury. Medical records should also contain an indication of the doctor’s recommendation concerning length of recovery and when the student can return to school. Medical records for the medical condition of a family member may be considered under the same conditions as above.

B. Death in the Family. This type of appeal requires documentation of the death of an immediate family member. An immediate family member includes a spouse or significant other, child, sibling, parent or grandparent or a relative under the student’s care. Either a copy of the death certificate or obituary is required for this type of appeal.

C. Administrative Error. Include all documentation from the appropriate individuals who can confirm that an administrative error has occurred. Administrative errors often generate a great deal of correspondence. Any such correspondence should be included in a request for appeal based on an administrative error.

All supporting documentation and your letter of explanation must be turned into the UAA Office of Student Financial Aid at the same time or you run the risk of receiving written notification that no action was taken due to insufficient or missing information. **Appeals will be reviewed and the student will receive written notification of the reviewer’s decision within 30 days of receipt of all required documentation.**

All appeal documentation is strictly confidential and is subject to the Privacy Act and the Federal Educational Rights and Privacy Act (FERPA). A description of the FERPA policy is listed as “Access to student records” in the Regulation section of the UAA Student Handbook. The Financial Aid Officer reviewing an appeal may request additional documentation or information.

**SATISFACTORY ACADEMIC PROGRESS**

To remain in good standing for federal assistance, students must complete the number of credits upon which the semester’s aid was based. In addition, they must maintain a minimum grade point average (GPA) of 2.00 for undergraduates and 3.0 for graduates.

**SATISFACTORY ACADEMIC PROGRESS POLICY**

In order to receive financial aid from any of the Federal aid programs or from institutional funds, a student must be fully admitted to a degree or certificate program. In addition, the student must maintain satisfactory academic progress toward his/her educational goal as defined below:

1. A student must be admitted to an undergraduate (or teacher certification program), University certificate program, or graduate program, without any conditions (missing transcripts, missing test scores, etc.)
   a. Full-time undergraduate students (students enrolling in 12 or more credits) must successfully complete at least 12 credits each term with a minimum cumulative GPA of 2.00.
   b. Three-quarter time undergraduate students (students enrolling for 9, 10 or 11 credits) must successfully complete at least 9 credits each term with a minimum cumulative GPA of 2.00.
   c. Half-time undergraduate students (students enrolling in 6, 7 or 8 credits) must successfully complete at least 6 credits each term with a minimum cumulative GPA of 2.00.
   d. Full-time graduate students (students enrolling in 9 or more graduate credits) must successfully complete at least 9 graduate credits each term with a minimum cumulative GPA of 3.00.
   e. Half-time graduate students (students enrolling in 6, 7 or 8 graduate credits) must successfully complete at least 6 graduate credits each term with a minimum cumulative GPA of 3.00.
   f. All students who are attending less than half-time during any term must successfully complete the number of credits attempted that term with a minimum cumulative GPA of 2.00 (3.00 for graduate students).

2. Academic progress will be reviewed at the end of each term to ensure the student has maintained the minimum cumulative GPA and to ensure that the student has completed the required minimum number of credits.

3. Probation: Students in section A who complete at least 9 credits in a term with a minimum cumulative GPA of 2.00 will be placed on probation for their next term and will be eligible to receive financial aid during their term of probation. These students will receive a letter notifying them of their probationary status.
Students in section B who complete at least 6 credits in a term with a minimum cumulative GPA of 2.00 and students in section D who complete at least 6 graduate credits in a term with a minimum cumulative GPA of 3.00 will be placed on probation for their next term and will be eligible to receive financial aid during their term of probation. These students will receive a letter notifying them of their probationary status. There is no probation for half time students taking 6, 7 or 8 credits or for students attending less than half time (students in sections C, E and F). Failure to regain good standing status within the one semester of probation will result in the suspension of financial aid.

4. Grades of AU, DF, I, W, NB, NC and NP indicate unsatisfactory completion of courses for financial aid purposes. DF grades assigned for thesis work in progress will be allowed as satisfactory for one term only. Failure of a student to satisfactorily complete the required number of credits during the academic year will result in the suspension of most types of financial aid.

5. First time freshmen and transfer students with no prior academic history within the University of Alaska system are considered to be making satisfactory academic progress for the first semester of enrollment.

6. The maximum number of credits for which a student may receive financial aid is 150% of the published credit requirements of his/her educational program. Usually 180 credits for a bachelor’s degree and 90 credits for an associate’s degree comprise 150% of the basic graduation requirements. The clock starts from the very first credit attempted, regardless of whether or not the student received financial aid. Transfer credits are included in this calculation.

7. Satisfactory academic progress must be maintained even during terms in which aid is not received.

INCOMPLETE GRADES
Incomplete courses will not be considered complete until official confirmation has been received in the Office of Student Financial Aid, showing satisfactory completion of the incomplete with a passing grade.

REPEAT COURSES
Repeated courses that are required for a student’s degree program count toward the minimum credit hour load required for aid during a given semester, and all repeated coursework will be counted toward the cumulative maximum number of credits (150% of degree requirements) for which a student can receive aid (see above #6).

REMEDIAL COURSEWORK
Students who enroll in remedial coursework (less than 100 level) may receive financial aid. Note: Some remedial coursework is not considered to be at least secondary level and is not fundable by any of the federal aid programs. Consult your financial aid office for specific information.

TELCOURSES AND DISTANCE DELIVERED COURSES
These courses count toward the credit hour load and may be used to fulfill credit hour requirements for financial aid if the courses are required for a student’s degree program. Note: Students are still required to complete these classes within the term that they enroll (year long correspondence courses are not eligible for financial aid).

WITHDRAWALS
Students who totally withdraw from the university, after receiving financial aid, will be suspended from receiving future financial aid and could be liable for refunds and/or return of Title IV funds.

INSTITUTIONAL FUNDS
Students receiving scholarships, grants, tuition waivers from UA are expected to meet the satisfactory academic progress requirements listed in this document. Please be advised, however, that some scholarships and waivers require a higher GPA for continued receipt. Requirements for scholarships will be stipulated in the UAA scholarship information packet.

OTHER SOURCES OF AID
Students receiving scholarships or financial aid from such sources as BIA, regional and village corporations, civic groups, and private organizations are expected to meet the satisfactory academic progress requirements of UA unless the agency or group instructs the Office of Student Financial Aid, in writing, to waive our requirements for these specific funds.

FINANCIAL AID SUSPENSION
Financial aid suspension will result from failure to:
1. Complete of the minimum required number of credits required during the term.
2. Maintain a cumulative GPA of at least 2.00 for undergraduates and 3.00 for graduates.
3. Graduate prior to exceeding the maximum number of credits allowed for the student’s program (see above # 6).
4. Meet the requirements of an appeal approval.
REINSTATEMENT

1. Appeals: A student whose financial aid has been suspended may appeal that decision. Appeals should be directed to the UAA Office of Student Financial Aid, 3211 Providence Dr., Anchorage, AK 99508. Appeal forms are available in the Office of Student Financial Aid or under the "Forms" section on our web page: www.uaa.alaska.edu/finaid. Students may only submit one appeal for every three completed semesters. Written documentation is required for appeals for financial aid reinstatement. The Office of Student Financial Aid will review all appeals to determine whether reinstatement of aid will be granted. If the appeal is approved, the student will be placed on financial aid probation for one semester. This means that students must meet the condition(s) of their appeal. Failure to regain good standing status within the probation semester of probation will result in a suspension of financial aid.

2. Makeup: A student who does not wish to appeal or whose appeal has been denied may attend course(s) during a subsequent term, at the student's expense, to make up credits and/or improve their GPA. It is the student's responsibility to notify the Office of Student Financial Aid when the makeup is complete.

DISBURSEMENTS

Funds cannot be disbursed for prior semesters when a student had failed to maintain satisfactory academic progress. Approval of appeals is for the semester of the appeal only and not for a preceding term.

CONCURRENT ENROLLMENT

Some students plan to enroll at UAA and at another college or university during the same semester. Concurrent enrollment plans must be approved in advance by the UAA Office of Student Financial Aid. Aid cannot be received at both institutions simultaneously.

Concurrent enrollment plans are subject to the following conditions. The student must:
1. Obtain written approval from the Office of Student Financial Aid by completing a consortium agreement,
2. Enroll in a minimum of six semester hours at UAA,
3. Have a majority of semester credits at UAA, and

RETURN OF FEDERAL FINANCIAL AID POLICY

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.

1) This policy applies to all students who withdraw, drop out, are expelled from the University of Alaska Anchorage or otherwise fail to complete the period of enrollment for which they were charged, and who receive financial aid from Title IV funds:
   a) The term "Title IV Funds" refers to the Federal financial aid programs authorized under the Higher Education Act of 1965 (as amended) and includes the following programs: Unsubsidized Stafford loans, Subsidized Stafford loans, Federal PLUS loans, Federal Perkins loans, Federal Pell Grants, Federal SEOG grants.
   b) A student's withdrawal date is:
      i) the date the student completed the course withdrawal form, or the date the student officially notified the Enrollment Services Office (this notification may take place via email, letter, phone or personal contact); or
      ii) the midpoint of the period for a student who leaves without notifying the institution; or
      iii) the student's last date of attendance at a documented academically related activity.
   c) The term "period of enrollment" includes every day, including weekends, that the student is enrolled, excluding breaks of at least five consecutive days (the length of the break is determined by counting the first day of the break through the last day before classes resume).

2) Title IV aid is earned in a prorated manner on a per diem basis up to and including the 60% point in the semester. Title IV aid and all other aid is viewed as 100% earned after that point in time.
   a) The percentage of Title IV aid earned shall be calculated as follows:

   \[
   \text{Percent of term completed} = \frac{\text{Number of days completed by student}}{\text{Total number of days in term}} \times 100
   \]

   The percent of term completed shall be the percentage of Title IV aid earned by the student.

   *The total number of days in term excludes any scheduled breaks of more than five days.
   b) The percentage of Title IV aid unearned (i.e., to be returned to the appropriate program) shall be 100% minus the percent earned.
   c) Unearned aid shall be returned first by UAA from the student's account calculated as follows:

   \[
   \text{Amount returned to program(s)} = \frac{\text{Total institutional charges} \times \text{percent of unearned aid}}{100}
   \]

   Unearned Title IV aid shall be returned to the following programs in the following order: Unsubsidized Stafford Loan, Subsidized Stafford Loan, Federal Perkins Loans, Parent Loans to Undergraduate Students (PLUS), Federal Pell Grant, Federal SEOG, other Title IV grant programs.

   Exception: no program can receive a refund if the student did not receive aid from that program.
TUITION, FEES, AND FINANCIAL AID

4) Institutional and student responsibilities concerning the return of Title IV funds.

a) UAA’s responsibilities concerning the return of Title IV funds include:
   i) providing each student with the information given in this policy;
   ii) identifying students who are affected by this policy and completing the Return of Title IV Funds calculation for those students;
   iii) returning any Title IV funds that are due the Title IV programs.

b) The student’s responsibilities in regard to the return of Title IV funds include:
   i) becoming familiar with the Return of Title IV policy and how complete withdrawal affects eligibility for Title IV aid;
   ii) returning to the Title IV programs any funds that were disbursed directly to the student and which the student was determined to be ineligible for via the Return of Title IV Funds calculation.

5) The fees, procedures, and policies listed above supersede those published previously and are subject to change at any time.

6) Refunds of institutional charges for students who do not totally withdraw will be calculated using the UAA refund policy published in the UAA Class Schedule and Academic Catalog.

If you would like examples of the Refund policy or the Return of Title IV Funds policy, contact the Office of Student 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 $250 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.

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### SCHOLARSHIPS

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 our web site for the most current information at: [www.uaa.alaska.edu/finaid/](http://www.uaa.alaska.edu/finaid/).

### FEDERAL WORKSTUDY PROGRAM

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

Students seeking part-time and full-time employment off campus will find several opportunities through the Career Services Center, government, corporate, and private sector employers contact the Career Services Center daily to post job opportunities. Through CSC, students can also participate in Student Internships, a unique service that integrates academic credit with paid, planned, supervised work experience. Student internships are a unique form of education, which integrate academic programs with paid, planned, and supervised work experience, allowing the student to earn elective credit and a salary. Applied academics allow students to test classroom skills in a professional setting and explore career opportunities. For more information on student internships or other employment opportunities, call the Career Services Center at (907) 786-4513 or visit the web site at [www.uaa.alaska.edu/career/](http://www.uaa.alaska.edu/career/).

### CAREER SERVICES CENTER

Through its Student Internship Services, the Career Services Center 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. For more information, contact the Career Services Center at (907) 786-4513, web site at [www.uaa.alaska.edu/career/](http://www.uaa.alaska.edu/career/), HotLine (907) 786-4545, or drop by Business Education Building, Room 122.

### HUMAN RESOURCE SERVICES

Human Resource Services 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 who wish to keep track of full and part-time employment opportunities open to the general public may call the 24 hour JOB HOTLINE at (907) 786-4887, or job information can be found by accessing our web site listed under “Current Job Openings” at: [www.uaa.alaska.edu/personnel/current.html](http://www.uaa.alaska.edu/personnel/current.html).

Applicants needing reasonable accommodations to participate in the application or interview process should contact the recruitment manager in Human Resource Services. For general information, call (907) 786-4608 or stop by the Administration Building Room 245.
**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**

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, Dependants 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 Department of Veterans Affairs.

**ADMISSION TO UAA**

All veteran students receiving DVA benefits must be officially admitted to a degree program. Contact Enrollment Services (Administration Building Lobby) for information on requirements, (907) 786-1480.

**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 Department of Veterans Affairs and may end educational benefits.
CHAPTER 4

ADVISING, LEARNING, AND ASSISTANCE

Adult Learning Center
Academic Advising
Career Services Center
Counseling
Disability Support Services
Educational Opportunity Center
Learning Resources Center
Library
Academic Center for Excellence
AHAINA Student Programs
Native Student Services
Mathematical Sciences Math Lab
Reading/Writing Center
Testing and Assessment
University Honors Program
ADULT LEARNING CENTER

Adult Basic Education (ABE) classes, GED certificate instruction, Adult Secondary Education (High School Completion), English-as-a-Second Language (ESL) classes, and a work search program are offered in the Adult Learning Center (ALC). The Adult Learning Center is located on 3401 Minnesota Drive. Classes meet during the morning, afternoon, and evening. Students 18 years and older who are not enrolled in high school may attend. Under special conditions, students 17 and under can enroll. The Center is a focus for those in the Anchorage area in need of basic educational skills and provides a second chance for adults to complete a high school diploma or to upgrade math, reading, writing, science, social studies, computer, and life-coping skills. ESL classes focus on basic English for new residents. The ALC is also the home of several job training and readiness programs. The Office Management and Technology (OMT) programs, the Technology Learning Center (TLC) and the Prometric Test Center are housed at the Adult Learning Center.

ACADEMIC ADVISING

The goal of academic advising is to assist students in developing educational plans consistent with career/life goals and to provide students with the information and skills needed to pursue those goals. It not only involves telling students what they need to know, but also aims at enabling them to find things out for themselves. The University knows that academic success is often greater when students and their advisor share a good working relationship. It is important to know who your advisor is and to seek advice often, rather than meeting only when problems arise.

DEPARTMENTAL ADVISING

At UAA, admitted students with a declared major are assigned to a faculty advisor within the academic department offering the major. The advisor can guide the student on University policies and procedures, general and degree requirements, and career options associated with the field. The Certificate of Admission lists the location and phone number to contact to set up an appointment with a faculty advisor. Some departments also send students a welcome letter with the notification of the advisor’s name.

All students have the right to high quality academic advising, and the University has an obligation to ensure that academic advising is available to all students. Academic advising is not mandatory. Students are encouraged to utilize advising and are responsible for seeking advising.

ADVISING AND COUNSELING CENTER

Students admitted to UAA as baccalaureate students, indicating an “undeclared” major and students admitted to the Associate of Arts degree are assigned to the Advising and Counseling Center. Students attending as non-degree students may also seek advisement through the Advising and Counseling Center.

The Advising and Counseling Center has professional counselors and staff members to provide multiple services for prospective and enrolled University of Alaska Anchorage students. Services include educational planning, testing and assessment, career counseling, and short-term personal counseling.

Students admitted to UAA as baccalaureate students, indicating an “undeclared” major and students admitted to the Associate of Arts degree are assigned to the Advising and Counseling Center. Students not admitted to UAA and prospective students may also seek advisement through the Advising and Counseling Center.

For further information, or to schedule an appointment with a counselor, go to the Business Education Building, Room 115, or call (907) 786-4500. Center information can be found on the web site at www.uaa.alaska.edu/advise/ and general advising questions can be e-mailed to aycouns@uaa.alaska.edu.

CAREER SERVICES CENTER

The Career Services Center (CSC) provides a number of services and resources. The Center houses over one thousand books in its Career Library, covering subjects such as how to write a résumé, interviewing skills, and where jobs can be found and how to prepare for your career. Other resource materials include videos, college catalogs, and a variety of literature to assist students on a career path or job search. Books may be checked out for a period of seven days with a Wolfcard or MOA library card. The CSC also provides career counseling, a credential file program, A Day In The Life Program, a Video taped mock interview program, résumé assistance, workshops, and campus and community presentations. The center also hosts many local and national employers to visit the campus for on-campus recruiting. The center has several computers which are equipped with the AKCIS program, a self-directed computer program developed to assist the user in exploring career, financial, and educational information.

The Career Services Center is open Monday through Friday all year. For further information, call the Center at (907) 786-4513 or visit the web site at www.uaacareerservices.com, or stop by the Business Education Building, suite 122.
STUDENT INTERNSHIP SERVICES

Student internships are a unique form of education, which integrate academic programs with paid, planned, and supervised work experience, allowing the student to earn elective credit and a salary. Applied academics allow students to test classroom skills in a professional setting and explore career opportunities. For more information on student internships, call the Career Services Center at (907) 786-4513 or visit the web site at www.uaacareerservices.com.

COUNSELING

The Advising and Counseling Center provides short-term personal counseling for concerns affecting academic success, such as stress, situational crises, and life changes. Other counseling services include student advocacy and referrals. Counseling services are free to UAA students. To learn more about the services available, call (907) 786-4500 or stop by Business Education Building, Room 115.

PSYCHOLOGICAL SERVICES CENTER

The Psychological Services 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 their 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. The Psychological Services Center is located on the second floor of the College of Arts and Sciences Building. For more information, call (907) 786-1795 or stop by College of Arts and Sciences, Room 264.

STUDENT HEALTH CENTER

The Student Health Center provides mental health psychotherapy to students in need. The therapist acts as a patient advocate and assists 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. Call (907) 786-4040 or stop by Business Education Building, Room 120 to schedule an appointment.

NATIVE STUDENT SERVICES

Native Student Services provides short-term personal counseling, conflict resolution and advocacy for Alaska Native and Native American students. For more information call (907) 786-4000 or stop by Business Education Building, Room 108.

DISABILITY SUPPORT SERVICES

At the University of Alaska Anchorage, providing equal opportunities for students who experience disabilities is a campus-wide responsibility and commitment. Disability Support Services (DSS) is the designated UAA department responsible for coordinating 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, but are not limited to, 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. Disability Support Services is located in room 105 of the Business Education Building. For further information call (907) 786-4530 (voice), (907) 786-4536 (tty), e-mail at aydss@uaa.alaska.edu, or visit the DSS website at www.uaa.alaska.edu/dss/camai.html.

EDUCATIONAL OPPORTUNITY CENTER

The Educational Opportunity Center (EOC) is funded by the U.S. Department of Education and sponsored by the University of Alaska Anchorage. The center’s main goal is to provide information and assistance to low income first generation adults so that they might become enrolled in post secondary education. Services provided by the Educational Opportunity Center include: career planning, educational advising, college and vocational/technical school selection, school admission assistance, financial aid advising, financial aid application assistance, tutorial assistance, and federal student loan default rehabilitation. For more information, call (907) 274-5522 or (907) 786-4500.

LEARNING RESOURCES CENTER

The Learning Resources Center (LRC), located in the Sally Monserud Building, offers a friendly and relaxed atmosphere for students to read, study, work on supplemental materials, or get extra help for a class. The LRC houses a large quiet study area and an open area that is available for individuals and small work groups. In addition, the Center has a language laboratory, a math laboratory, a computer-assisted writing laboratory, an open-access computer laboratory, and audio-visual study areas. The Instructor Reserve area maintains a collection of print, audio-visual, and computerized supplemental course materials placed on reserve for student use by University faculty.

At the LRC, students have free access to peer tutors to help with mathematics, languages, and preparatory English as a second language. For those students who wish to arrange private tutoring, the Center maintains a registry of available tutors for a variety of subjects.

Other services include; laser printing, copy machines, laminating equipment, and document binding equipment to assist students in the preparation of class projects and reports; and test proctoring for those students enrolled in correspondence courses. For more information, please call (907) 786-6828.

LIBRARY

The Consortium Library serves the students, faculty, and staff of the University of Alaska Anchorage and Alaska Pacific University. It is also the major research library for Southcentral Alaska. The collection includes more than 735,000 volumes, 500,000 microform units, subscriptions to 3400 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 page provides access to a growing list of databases, indexes, full text articles, and electronic journals. Online request services for interlibrary loan, reference, and table of contents are also available. For further information, please see the Library web page at www.lib.uaa.alaska.edu or call the Reference Desk at (907) 786-1848.
ACADEMIC CENTER FOR EXCELLENCE

The Academic Center for Excellence (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 Counseling Center, AHAINA Student Programs, Educational Opportunity Center, Educational Talent Search, Native Student Services, Testing and Assessment, and Upward Bound. The departments that make up ACE promote student success, persistence, and retention through their varied programs. Academic advising, mentoring, tutorial services, university orientation, College Survival Skills courses, career and personal counseling are a few of the programs provided to enhance the personal, intellectual, and academic growth of the students ACE serves. ACE staff also provides academic interventions for the UAA Scholars program.

ACE activities are designed to reflect the goals of the University. In order to accomplish this, ACE maintains close contact with the faculty and staff in all areas of the university. College Survival Skills (GUID A150) is an elective course designed to provide new students with the skills required to succeed in a university environment. Through outreach programs such as the Educational Opportunity Center and Educational Talent Search and Upward Bound, ACE provides services to the area’s diverse population, serving grades 6 – 12 as well as the adult re-entry student.

AHAINA STUDENT PROGRAMS

The University of Alaska Anchorage recognizes the growing population of students of color and is determined to meet many of their needs. AHAINA is an acronym for African American, Hispanic, Asian, International and Native American students. Our primary goal is to assist students of color (minority) 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.

The emotional expectations of students are met through the provision of social and cultural activities. Peer advisors and support groups serve as important components of the educational services offered by the AHAINA Office. As it is not our intent to marginalize the services and education offered to our students, AHAINA refers many of its students, on a case-by-case basis, to existing services available to the general student population. If, for some reason, this proves to be a mismatch, AHAINA then uses its resources to provide particular assistance. Under the auspices of AHAINA, a Multicultural Student Center has been established. It is open for use by individuals and student clubs from any of the many different cultures represented on campus.

AHAINA Student Programs provide short-term one-on-one and group counseling, conflict resolution, mediation, and advocacy for African American, Hispanic, Asian, International and Native American students. For more information call (907) 786-4070 or stop by the Business Education Building, Room 106.

EDUCATIONAL TALENT SEARCH PROGRAM

Educational Talent Search (ETS) helps 6th through 12th grade students achieve success in school and in their futures. ETS prepares students to successfully continue education beyond high school. Services include academic advising, career exploration, study skills, tutoring, college planning, goal setting and more. Funded by a federal Department of Education grant, ETS is a TRIO project and is free to low income students whose parents did not attend or complete college. To obtain information call (907) 258-0487.

TUTORIAL ASSISTANCE PROGRAM

Based on the availability of funds, AHAINA offers free academic assistance for students of color. Small groups and labs with some one-on-one sessions are offered, depending upon the need and demand. Where possible, AHAINA will refer students to other available resources on campus. In most cases students must request the assistance for themselves.

PROGRAM DEVELOPMENT

AHAINA's programming features events that explore cultural diversity and presents the artistic and creative aspects of various cultural experiences. AHAINA co-sponsors many events with other campus organizations. Program Development provides another opportunity for minority students to be involved.

NATIVE STUDENT SERVICES

The mission of Native Student Services (NSS) is to provide quality support services to Native and Rural students to promote scholastic achievement, student retention and personal success. The goals of Native Student Services are designed to foster academic excellence, career development, leadership skills, personal growth, college transitioning, a sense of belonging and the attainment of one’s scholastic and life goals.

The Center provides a safe, affirming space on campus. It is a gathering place where students can find support, access resources, connect with community representatives, study with classmates, meet new friends and interact with people who share similar experiences as indigenous peoples.

Native Student Services targets the unique needs of Native students by providing educational/vocational planning, advising, career counseling, financial aid resources and guidance, scholarship and internship information, study group space, peer mentoring, academic tool building workshops, leadership opportunities, community and cultural programming, educational outreach, community partnerships, recruitment, campus orientation, student tours, school visits, summer internships and college introductory programs.

Native Student Services has a Peer Mentoring Program that is designed to increase new students' retention, academic success and personal adjustment to the University of Alaska Anchorage through a volunteer Full-Circle mentoring approach.

Native Student Services works closely with University departments and community organizations to develop co-curricular enrichment programs and events that complement students’ academic pursuits.
SUMMER PROGRAMS

The Della Keats Enrichment Program (DKEP), sponsored by Native Students Services, is an academic summer bridging program that targets 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 the areas of English, math science, human anatomy and physiology, and computers. One-on-one mentoring in a health career field is a highlight of the program for students.

The Internship for Native Student Training and Education Program (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. Participants must successfully completed 30 college credits including English A111.

At the successful completion of the program students are awarded 3 credits for a required survey course (Introduction to Native American Federalism and Federal Public Service in Alaska) and 3 credits for the Internship Independent Study component for a total of 6 college credits. A full scholarship including room, board, and an educational stipend is provided.

Native Student Services is located in the Business Education Building, Room 108. For more information visit our web site at www.uaa.alaska.edu/nss or to receive our newsletter, call (907) 786-4000.

MATHEMATICAL SCIENCES MATH LAB

The Mathematical Sciences Math Lab, located in the College of Arts and Sciences, CAS 156, offers tutoring at the preparatory and lower division levels in mathematics, and the lower division level in applied statistics. All Math Lab tutors hired by the Department of Mathematical Sciences have generally completed at least three semesters of calculus.

Video tapes for MATH A054, A055, A060, A105, A107, A108, A109, and A272 as well as AS A252 are available for in-lab use. The Math Lab also contains computers and software for student use. All students registered for an on-campus MATH or AS prefix course who have paid a lab fee are eligible to use the Math Lab. For information, please call (907) 786-1742.

READING/Writing CENTER

The Reading/Writing Center (RWC) offers students supplemental instruction in reading, writing, and learning skills. It also provides a quiet place to study, and free Friday workshops, as well as a library of print, audio-visual, and computer resources. It is staffed by UAA English graduate teaching assistants.

The RWC is used by students enrolled in English composition and learning skills courses, students wanting help with academic papers and students interested in self-directed skill development. Examples of skills students can work on at the RWC include generating, organizing, and developing ideas; formulating thesis; documenting sources; and editing for grammar and punctuation. Computer-assisted tutorials are available on writing instruction, grammar, punctuation, vocabulary, reading comprehension, time management, test-taking, and other learning skills. Users are assessed a $12 per semester fee for these services. No referral is necessary. For further information, call (907) 786-6918.

TESTING AND ASSESSMENT

The assessment program supports many of the testing needs of the University and also serves the community as a testing site for over 60 national tests which are used for admission, gaining college credit, and professional certification. ASSET is offered to new students for baccalaureate admission purposes, general advising and to place them in appropriate English classes and basic math classes. There is a ten dollar ($10) fee for ASSET. Data from ASSET 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. Testing and Assessment Services is a department within the Advising and Counseling Center in the Business Education Building, Room 115. For further information, please call (907) 786-4500. Refer to Course Placement in Chapter 8 of this catalog for specific placement information.

UNIVERSITY HONORS PROGRAM

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. The mission of the University Honors Program is to provide capable and highly motivated students with an intense intellectual experience, and to offer them opportunities to develop an integrative perspective extending beyond the confines of individual majors and disciplines.

The program offers students 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. For more information, call (907) 786-1086, visit our website at www.uaa.alaska.edu/honors or stop by the Business Education Building, Room 119.
CHAPTER 5

STUDENT LIFE

Campus Life
Student Rights, Freedoms, and Responsibilities
Alcohol Policy
Athletic Programs
Bookstore
Information Technology Services
Fine and Performing Arts Facilities
Housing and Residence Life
Foodservice
Student Health Center
Student Leadership
University Police Department
STUDENT LIFE

CAMPUS LIFE

The department of Campus Life encompasses the following exciting programs: the Campus Center, Concert Board, Orientation, Student Activities, and Student Programs. If you want to get the most out of your college experience, get involved with Campus Life. We provide students with hundreds of activities and leadership opportunities. Our main offices are located on the second floor of the Campus Center, adjacent to the Student Lounge. For information call 786-1215 or visit www.uaa.alaska.edu/campuslife.

CAMPUS CENTER

Centrally located, the Campus Center is the hub of co-curricular activities and programs. In the Campus Center you will find the student government offices, the Northern Light student newspaper, Subway Sandwiches, the Corner Café, ATM, study lounges, computer lab, games and TV room, art gallery, and conference rooms. A central service of the Campus Center is the Information Desk which provides students with UAA ID cards and bus passes, a lost and found, Carrs Tix entertainment tickets, outdoor equipment rental, ski passes, and general information. Call 786-1204 v/tty or visit www.uaa.alaska.edu/campuscenter.

CONCERT BOARD

The seven member student Concert Board presents two to four major concerts a year. Recent shows include comedian Tommy Davidson and musician Henry Rollins. The Board also produces the annual A Cappella Festivella each fall, bringing up the best vocal groups in the country. Student tickets to Concert Board events are substantially discounted. The UAA Special Projects Fund, a student grant program, is funded by the Concert Board events. For more information call 786-1210 or visit www.uaa.alaska.edu/concerts.

ORIENTATION

To succeed at UAA, new students need to learn about the many services and programs available to them. Orientation provides students an opportunity to learn the ‘ins and outs’ of our University and begin to develop their Seawolf pride. Students will meet with UAA faculty, staff, and students, gain valuable knowledge about campus, and prepare for success in their academic endeavors. For more information on Orientation, call 786-1224 or visit www.uaa.alaska.edu/dos/orientation.

STUDENT ACTIVITIES

Student Activities offers an incredible season of events and programs you are sure to enjoy. You can see nationally known musicians and entertainers perform weekly in the Campus Center Pub or the Williamson Auditorium; enjoy the best UAA student art in the Campus Center Gallery; and listen to Anchorage’s finest musicians performing in the Campus Center during the Noon Music series. Call the Events Hotline at 786-1000 for current information on campus activities. For more information call 786-1219 or visit www.uaa.alaska.edu/events.

STUDENT PROGRAMS

Student Programs provides administrative advice to the student newspaper, student radio station, and the Media Board. Also, Student Programs coordinate two major UAA events: the Student Showcase and the statewide Bartlett Lecture Series. These programs offer students the opportunity to apply their classroom knowledge through hands-on training while working together with faculty, staff, and community members. For more information on all of the programs call 786-4733, email aylearn@uaa.alaska.edu or visit www.uaa.alaska.edu/programs.

MEDIA BOARD

The Media Board oversees the campus student media. The Board is comprised of five elected and two appointed students, two appointed faculty members. Media managers and advisors from faculty, administration, and Anchorage community also serve as non-voting members. For information call 786-4733, email aylearn@uaa.alaska.edu, or visit www.uaa.alaska.edu/media/media.htm.

STUDENT NEWSPAPER

The Northern Light employs up to 30 students each semester. Students gain experience writing, editing, layout and graphics, photography, advertising and management. The staff publishes 23 weekly issues during fall and spring semesters and six issues in summer. For more information, call 786-1318, email aylight@uaa.alaska.edu, stop by Campus Center 210, or visit www.uaa.alaska.edu/light/home.

STUDENT RADIO STATION

KRUA 88.1 FM, the University radio station, is 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. For information call 786-6000, stop by K building 254, or visit www.uaa.alaska.edu/krua.

STUDENT SHOWCASE

Student Showcase is the University’s annual academic conference that 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. For information call 786-4771 or visit www.uaa.alaska.edu/programs/showcase.htm.

BARTLETT LECTURE SERIES

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 was designed to promote 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. To find out more about the programs, please call 786-4733, email aylearn@uaa.alaska.edu, or visit www.uaa.alaska.edu/programs/bartlett.htm.
STUDENT RIGHTS, FREEDOMS, AND RESPONSIBILITIES

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

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

Violations of 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 Campus Center, Room 233. Students may also obtain a copy of University of Alaska Board of Regents Policies and University Regulations on-line 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. The University of Alaska Anchorage 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.

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.

ACCESS TO STUDENT RECORDS

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. Refer to Access to Student Records in Chapter 8 of this catalog or to the 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.

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**UNIVERSITY STUDENT JUDICIAL REVIEW PROCEDURES**

1. **Definition of terms:**
   a. 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.
   b. Major sanctions are defined as suspension, expulsion, and revocation of a degree.
   c. Minor sanctions are defined as those other than ones specified as major sanctions.
   d. Days are defined as “class days” consistent with University Regulation 09.03.02, the exception is for the Residence Life judicial review process for incidents that occur in the residence halls during University holidays and breaks that involve students living in the residence halls where days are defined as work days.

2. After an allegation of misconduct is made, judicial procedures will commence with a preliminary investigation, at the conclusion of which the designated judicial officer will:
   a. determine whether to dismiss the charges;
   b. whether the allegations, if true, would likely result in imposition of minor sanctions, in which case the matter continues with an administrative review; or
   c. whether the allegations, if true, would likely result in imposition of a major sanction, in which case the student is provided the opportunity to choose between a judicial board hearing or an administrative review.

3. A judicial board hearing is only available to students deemed subject to imposition of a major sanction. In a judicial board hearing the matter is reviewed by a panel of students, faculty, and staff. In a judicial board hearing the students are afforded the opportunity to be represented by legal counsel.

4. An administrative review is conducted by a designated judicial officer and is intended to be an expedited process for examination of information and decision making. An administrative review is the only review process for matters involving imposition of a minor sanction. A student charged with infractions of the Code which would be subject to a major sanction may choose to have the matter investigated by an administrative review, but in so doing will be required to waive certain processes otherwise available under the judicial board hearing.

5. An imposition of a minor sanction following a judicial board hearing or administrative review may be appealed to the dean of students or designated appeal reviewer, whose decision on the matter constitutes the final decision for the University.

6. Findings, conclusions, and recommendations from either the judicial board or administrative review process to impose suspension, expulsion, and revocation of a degree proceed to the chancellor after review by the dean of students. Opportunity will be provided to the student to comment on the administrative review or judicial board hearing. The decision of the chancellor is the final decision for the University.
STUDENT LIFE

RIGHTS AFFORDED STUDENTS IN JUDICIAL PROCEEDINGS
1. The University will afford each student subject to judicial proceedings due process and the opportunity to appeal appropriate to the alleged violation and the magnitude of the potential sanction.
2. If an accused student chooses to remain silent or does not participate in a judicial proceeding, decisions will be based on available information.
3. A student may be accompanied by an advisor, who may be an attorney, during judicial proceedings. The advisor’s role will be determined by the rules governing the proceedings.
4. Students may have copies of the records of their judicial proceedings at their own expense.

RIGHTS AFFORDED INJURED PARTIES DURING THE JUDICIAL PROCESS
1. The University will consider the needs and circumstances of injured parties, especially victims of personal injury and/or sexual assault. The University will take such measures as it deems reasonable to prevent the unnecessary exposure of victims of personal injury and/or sexual assault.
2. An alleged victim of personal injury or sexual assault will be provided such information regarding the judicial process and the University’s responses as is required by law.

INITIATION OF A JUDICIAL REVIEW
1. Any University student, faculty or staff member may initiate a disciplinary action against a student for violation of the Code. Allegations of Code violations must be in writing, signed by the complaining party, and submitted to the Office of Student Affairs, or to the Department of Residence Life for incidents occurring in University housing involving students living on campus.
2. The designated judicial officer will review the allegations and conduct an appropriate preliminary investigation to determine:
   a. whether to dismiss the matter because insufficient information exists to support the accusation; or
   b. whether sufficient information exists to warrant further judicial proceeding, and, if so, whether the charges, if substantiated, will subject the student to a major or a minor sanction.
3. The designated judicial officer will send the student written notification of:
   a. the allegations of misconduct and the provisions of the Code which allegedly have been violated;
   b. the designated judicial officer’s name, telephone number, and office location; and the time period in which to schedule a meeting to review the charges;
   c. whether a major or minor sanction is likely to be imposed, should the charges be substantiated, and if a minor sanction is likely, that the matter will be pursued with an administrative review; or if a major sanction is likely, that the student has a choice between an administrative review or a judicial board hearing; and
   d. should the student fail to schedule a meeting, the meeting will be scheduled by the designated judicial officer.
4. Should a student fail to schedule a meeting within the time period specified in the notification of charges, the designated judicial officer will schedule the meeting and notify the student in writing at least three class days in advance of the scheduled meeting that, should the student fail to respond or appear, the designated judicial officer will conduct an administrative review and that the student will have waived the opportunity for review by a judicial board hearing.

5. A student under review for matters which could result in the imposition of a major sanction will be provided a written explanation of the differences between an administrative review and a judicial board hearing. The student’s choice of procedure must be stated in writing.
   a. If the student chooses an administrative review, the student must also waive, in writing, rights to procedures in the judicial board hearing which are not included in an administrative review.
   b. If the student chooses a judicial board hearing, the student will be notified in writing that:
      (1) the names of witnesses, copies of any witnesses’ written statements, or other documents on which the University will rely will be made available to the student for review at least three class days prior to the hearing;
      (2) the student must submit to the designated judicial officer at least three class days prior to the hearing the names of witnesses, copies of any witnesses’ written statements, or other documents on which the student will rely; and
      (3) the student is to have no contact with any judicial board members or alleged victims involved in the matter, and, where appropriate, limited contact with other individuals involved with the hearing.

GENERAL RULES AND PROCEDURES FOR ADMINISTRATIVE REVIEWS AND JUDICIAL BOARD HEARINGS
1. The University judicial system is not a court of law and is not held to standards applied in criminal proceedings. Formal rules of evidence will not apply. Testimony containing hearsay may be heard, taking into account the reliability of the information. Findings and conclusions will be based upon information presented during the review or hearing.
2. Reviews and hearings will ordinarily be scheduled between three and fifteen class days after written notice has been sent to the student, at times determined by the designated judicial officer.
3. A designated judicial officer will conduct an administrative review or chair a review by the judicial board.
4. Should a student fail to appear for an administrative review or judicial board hearing, the designated judicial officer may determine to proceed with the review or hearing without the student.
5. Reviews or hearings may be conducted by audio conference or at an off-campus location, if directed by the designated judicial officer.
6. The designated judicial officer will establish reasonable rules for the conduct of the review or hearing, and will make them available to all parties.
7. Students may select an advisor for assistance during the proceedings. Should the student choose an attorney for an advisor, the student is responsible for the attorney’s fees and legal costs regardless of the outcome of the review or hearing.
8. An administrative review or judicial board hearing will result in the preparation of written findings and conclusions. Conclusions will result in one of the following:
   a. charges are dismissed;
   b. a minor sanction is imposed. If a minor sanction is imposed, the designated judicial officer will send the student written notification of the decision and appeal rights within ten class days of the conclusion of an administrative review or judicial board hearing; or
   c. a major sanction is recommended. If a major sanction is recommended, the designated judicial officer will, within ten class days of the conclusion of an administrative review or judicial board hearing:
      (1) send the student written notification of the decision and of the right to provide comment to the dean of students or designee; and
      (2) forward the record of the administrative review or judicial board hearing to dean of students or designee.

JUDICIAL BOARD HEARING
1. The Judicial Board will be composed of two currently enrolled students in good academic and disciplinary standing and three University faculty and/or staff members. The members of the board must be unbiased and may be selected from another campus or site. Student appointments and alternates will be made by the USUAA president. Faculty/staff appointments and alternates will be made by the dean of students.
2. The accused student will be notified, in writing, at least five class days prior to the judicial board hearing of the names of potential judicial board members. The student may object to a member on the basis of bias, provided the student notifies the designated judicial officer, in writing, at least three class days prior to the scheduled hearing and states reasons for believing the board member is biased. The designated judicial officer will have the discretion to either uphold the appointment or have the board member replaced.
3. The accused student may choose between an open or closed hearing to the extent that such choices are permitted by state and federal laws. A hearing will be closed unless the student makes a written request at least one day in advance of the hearing to the designated judicial officer for an open hearing. In order to protect privacy or other rights of individuals involved in a proceeding, however, the designated judicial officer may determine that all or portions of the hearing will be closed. Witnesses may attend the hearing only during their testimony.
4. An advisor for a student may be present and may represent the student during the hearing.
5. The accused student will have the opportunity to question and hear all witnesses relied upon by the University.
6. The accused student will have the opportunity to present a defense, including introduction of relevant exhibits, affidavits, or witnesses, in addition to any information, explanations, and/or mitigating factors presented during the preliminary investigation of charges. Admission of and restrictions on exhibits and other evidence will be at the discretion of the designated judicial officer.
7. The judicial board will deliberate in closed session and make its determination within five class days of the conclusion of the hearing, unless an extension is provided by the designated judicial officer.

ADMINISTRATIVE REVIEW
1. At the scheduled meeting, the review officer will review the allegations and available information regarding the matter. The student, if present, will be given the opportunity to present information, explanations, and/or mitigating factors for the alleged violation.
2. Administrative reviews will be closed proceedings and attendance at the review will be limited to the designated judicial officer and the accused student, unless otherwise authorized by the designated judicial officer.
3. An advisor for the student may also be present during the review, but may not represent the student in the proceedings, nor speak nor ask questions on the student’s behalf unless authorized by the designated judicial officer.
4. If, during an administrative review for a charge originally determined to be subject to imposition of a minor sanction, new information is presented that could make the student subject to a major sanction, the student must be offered, in writing, the opportunity for review by a hearing board or for continuing with the administrative review. The student’s choice must be indicated in writing. If the student chooses to continue with the administrative review, the student must also waive, in writing, rights to the processes in the judicial board hearing which are not included in an administrative review.
REVIEW PROCEDURES FOR MAJOR SANCTIONS

A recommendation to impose a major sanction from an administrative review or judicial board hearing is automatically forwarded to the dean of students or designee for review.

1. The accused student will be given an opportunity to comment upon the findings, conclusions, and recommendation of the administrative review or judicial board hearing. Comments must be submitted, in writing, to the Office of Student Affairs within seven class days of the day the findings, conclusions, and recommendation are sent to the student.

2. The dean of students or designee will conduct a review of the record within fourteen class days and may:
   a. affirm or modify the recommendation for a major sanction and forward the recommendation to the chancellor;
   b. dismiss the case;
   c. lessen the sanction;
   d. refer the matter back for further review;
   e. authorize a new administrative review or judicial board hearing; or
   f. take such other action as the dean of students or designee deems appropriate.

3. If the dean of students or designee has recommended a major sanction, the chancellor will review the record and, ordinarily, render a decision within seven class days of receipt of the recommendation. The chancellor may dismiss the charges, impose a major or minor sanction, or take such other action as the chancellor deems appropriate.

4. The decision of the chancellor constitutes the University’s final decision on the matter. Notification to the student must be made in writing and in accordance with Regents’ Policy and University Regulation.

SUMMARY RESTRICTIONS

Summary restrictions may be issued in writing by the chancellor, the dean of students or designee for the purpose of investigating the events in which the student was allegedly involved and/or for the protection of persons or property pending the final outcome of the University judicial process.

DISCIPLINARY SANCTIONS

In determining appropriate sanctions, a student’s present and past disciplinary record, the nature of the offense, the severity of any damage, injury, or harm resulting from the prohibited behavior, and other factors relevant to the matter will be considered. The following list of sanctions is illustrative rather than exhaustive. The University reserves the right to create other reasonable sanctions or combine sanctions as it deems appropriate.

1. Warning - A written notice that the student is violating or has violated the Code, and that further misconduct may result in more severe disciplinary action.

2. Probation - A written warning which includes the probability of more severe disciplinary sanctions if the student is found to be violating the Code during a specified probationary period.

3. Denial of Benefits - Specific benefits may be denied a student for a designated period of time.

4. Restitution - A student may be required to reimburse the University or other victims related to the misconduct for damage to or misappropriation of property, or for reasonable expenses incurred.
5. Discretionary Sanction - Discretionary sanctions include community service work or other uncompensated labor, educational classes, counseling, or other sanctions that may be seen as appropriate to the circumstances of a given matter. Costs incurred by the student in fulfilling a discretionary sanction will be the responsibility of the student.

6. Restricted Access - A student may be restricted from entering certain designated areas and/or facilities or from using specific equipment for a specified period of time.

7. Suspension - The separation of the student from the University for a specified period of time, after which the student may be eligible to return. Conditions under which the suspension may be removed and for re-enrollment will be included in the notification of suspension. During the period of suspension, the student may be prohibited from participation in any activity authorized by the University and may be barred from all property owned or controlled by the University, except as stated on the notification.

8. Expulsion - Expulsion is considered to be the permanent separation of the student from the University. The student may be prohibited from participation in any activity authorized by the University and may be barred from property owned or controlled by the University except as stated on the notice of expulsion.

9. Revocation of a Degree - Any degree previously conferred by the University may be revoked if the student is found to have committed academic misconduct in pursuit of that degree.

GROUP SANCTIONS
Student groups or organizations found to have violated provisions of the Code may be put on probation or sanctioned, which may include loss of University-related benefits and access to University facilities and University-held funds.

REINSTATEMENT OF UNIVERSITY BENEFITS
The conditions, if any, for re-enrollment and reinstatement of University benefits lost through imposition of a sanction will depend upon the disciplinary sanctions imposed and will be specified in the notification of sanction.

Before a University benefit lost by sanction at one University of Alaska institution may be reinstated at another, the senior student services officer at the former University of Alaska institution must be consulted.

Students seeking reinstatement following suspension or expulsion must submit their requests and supporting documentation to the Office of Student Affairs. After review and recommendation by the dean of students, the chancellor will consider students' requests for reinstatement. Any student who is reinstated will be on University disciplinary probation for one year from the date of re-enrollment.

SEX OFFENSES POLICY
It is the policy of the University of Alaska Anchorage 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.

The term sexual assault, as used by the University of Alaska Anchorage, encompasses the legal definitions of sexual assault contained in Alaska state statutes. It includes, but is not limited to: rape, acquaintance or date rape, as well as rape by a stranger. Sexual assault is against the law and is defined as sexual misconduct that is forced or coerced against the will of the victim. The same definition applies regardless of whether the assailant is a stranger or an acquaintance (date, friend, or someone known casually). This type of threat may involve physical violence, coercion, or the threat of harm.

A person who has been the victim of sexual assault should report the crime to the University Police Department office or the local police. The Office of Student Affairs, Advising and Counseling Center, and Residence Life may provide initial support services for students on the Anchorage campus. At extended colleges, the local police should be contacted and campus-based counseling staff may serve as resources. Staff will serve in an advocacy role and help refer individuals for appropriate medical, police, judicial, and counseling services.

Those who report a sexual assault will be advised of the importance of preserving evidence which may be necessary to provide proof for prosecution. Sexual assault is a serious crime and victims frequently experience emotional trauma and medical consequences. Contacting resources enables victims to receive the professional help they may require. It does not commit the victim to further legal action.

Reported complaints of sexual assault will be investigated and to the extent possible, the identity of the individuals will be kept confidential. Whether or not criminal charges are initiated, the victim’s right to file a complaint through the student judicial system or employee grievance process remains.
Should the alleged misconduct of a student be subject to review through formal hearing procedures, the accused and accuser will be afforded the opportunity to present relevant information, be accompanied by a support person, and be apprised of the results of the disciplinary review. Upon request, as reasonably available, assistance will be provided in changing academic schedules and living arrangements.

In the event an accused person is found in violation of this policy, the entire range of sanctions outlined in the Student Code of Conduct may be considered including, but not limited to, disciplinary probation, suspension, or expulsion from the university. Should the alleged sexual assault involve an employee, sanctions will be determined under applicable employment contracts and agreements.

Sexual assault may also be considered a violation of the University of Alaska's policy against sexual harassment. According to the University of Alaska, Board of Regents' policy (4.08.02), sexual harassment involves unwelcome sexual advances or requests for sexual favors by a member of the campus community when the assailant uses, threatens to use, or implies that submission to, or rejection of, such conduct will have an impact on employment or academic decisions affecting the victim.

Sexual harassment includes other verbal or physical conduct related to sex when such conduct has the purpose or effect of substantially interfering with an individual's performance at work or study by creating an intimidating, hostile, or offensive environment in which to work, live, or learn. The Office of Campus Diversity and Compliance, Office of Student Affairs, and the appropriate dean's and director's offices can provide information and referral on issues of sexual harassment.

In an effort to educate the campus community about sexual assault, acquaintance rape, and other sex offenses, campus sponsored prevention programs are offered on an on-going basis throughout the year. Additional information about the above policy and programs offered can be obtained from the following offices: the Office of Student Affairs, the University Police Department, Residence Life, and the Advising and Counseling Center. The university catalog, class schedules, and the student handbook contain additional resource information.

STUDENT DISPUTE/COMPLAINT RESOLUTION PROCESS

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. Refer to the specific sections in this catalog that address the issues in question.

For disputes about grades and other academic actions, refer to the Academic Dispute Resolution Procedure; for complaints about the conduct of another student or disputes regarding University judicial decisions or resulting disciplinary sanctions, refer to the Student Code of Conduct and the Student Judicial Review Procedures; for complaints about sexual harassment and sexual misconduct, refer to the Student Code of Conduct and the Sexual Offenses Policy; for challenges to the content of your student record, refer to the Access to Student Records Procedure. All of these topics may be found in this chapter of the catalog. For challenges to the content of your student record, refer to the University Student Educational Records (FERPA) Policy in chapter 8 of the catalog.

For disputes regarding decisions associated with appropriate academic adjustments and programmatic accommodation for students with disabilities refer to the University Regulation 09.06.00 on students with disabilities. Contact Disability Support Services at 786-4530 (voice) 786-4536 (TTY) or the Campus Diversity and Compliance 504/ADA Coordinator at 786-4680 (voice or TTY) for additional information and a copy of the UAA procedures.

For complaints of unlawful discrimination based on race, color, religion, national origin, age, sex, Vietnam era or disabled veteran status, physical or mental disability, changes in marital status, pregnancy or parenthood, contact the Office of Campus Diversity and Compliance at 786-4680 (Voice or TTY).

The University strongly encourages students to make their complaints known to the appropriate departments and individuals within the University. Students may also contact the U.S. Department of Education, Office of Civil Rights Washington, D.C. for Title IX (gender equity) and 504/ADA (disability) complaints.

For disputes related to student employment, refer to the grievance procedure specified in UA Regents’ policies and University regulations on human resources, except where specifically modified by Regents’ Policy 09.05.00 and its corresponding University Regulation on employment of students.

For complaints about employee misconduct not covered in this section, contact the employee’s supervisor. Upon receipt of a written complaint, the employee’s supervisor will investigate the complaint, take such action as deemed appropriate to correct the situation, and respond to the complaint in writing.

For other complaints not covered in this section, file a written complaint with the employee who made the determination, then utilize the administrative appeals process, as appropriate.
ALCOHOL POLICY

The mission of the University and Student Affairs is to promote the education of the whole student. The University is concerned about ways in which alcohol use and abuse may 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 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; (a) to promote responsible behavior and attitudes among all members of the University community, (b) to educate the university community concerning the use and effects of alcoholic beverages in order to promote responsible decision-making, (c) 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 will be granted on designated premises for private University-sanctioned events for a limited period of time. The sale of alcoholic beverages at University-sanctioned events on campus is not permissible and may not be 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. Students may refer to the “Student Code of Conduct” section in this chapter.

The purpose of the residence halls is to provide a safe and convenient living/learning environment. A major goal of the learning experience is to promote individual choice and responsible behavior. A major concern is maintaining an educational environment that is conducive to learning. Noise and irresponsible or disturbing behavior that distracts from the learning environment will result in disciplinary and/or legal action.

The alcohol policy for the on-campus residence halls of the University of Alaska Anchorage shall permit those residents who are a minimum of 21 years of age to possess and consume limited quantities of alcoholic beverages in their apartments and in accordance with Residence Life Policies. All other restrictions on personal alcohol consumption, outlined under “Campus Alcohol Policy” above and the “Student Code of Conduct”, apply to resident students.

The Residence Hall Policy is subject to annual review by the Residence Hall Association and the University administration.

ALCOHOLICS ANONYMOUS

Individuals with alcohol problems may contact Alcoholics Anonymous. The Alcoholics Anonymous office is located at 523 West 8th Avenue, in Anchorage. Service is free; just call for help 24 hours a day at (907) 272-2312.

DRUG AND ALCOHOL COUNSELING RESOURCES

Additional University information and policies, health risks, counseling resources, and State of Alaska laws and penalties pertaining to alcohol and other drugs can be found in the Drug Free Schools statement which is available at UAA web site www.uaa.alaska.edu/studentaffairs/safety or in hard copy from the UAA Office of Student Affairs, Campus Center 233, 3211 Providence Drive, Anchorage, Alaska, 99508.

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.

ATHLETIC PROGRAMS

UAA’s highly visible athletic teams compete in nine 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 and women’s volleyball.

The Seawolves compete at the Division II level (with the exception of Division I hockey and skiing) and are members of the Western Collegiate Hockey Association, the Great Northwest Athletic Conference (basketball, volleyball, cross country), the Mountain West Conference (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 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 newly refurbished UAA Sports Center (cap. 1,450) 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.
BOOKSTORE

The mission of the University of Alaska Anchorage Bookstore is to contribute to the academic excellence of the university by efficiently providing for the retail sales of books and other educational materials to students and members of the university community on a cost-effective basis with quality customer service.

The bookstore stocks required and recommended textbooks, course materials, study aids, technical manuals, and reference books to assist students in the attainment of their educational goals.

When purchasing textbooks, students are encouraged to bring their registration receipt for reference. The receipt indicates the department name, course number and section number needed to locate the correct textbooks for a course.

The bookstore is a one stop shopping convenience for all your needs while attending UAA. Course materials are complemented by a wide selection of fiction, nonfiction, faculty authors, children's, and Alaskan books. Also offered are general supplies, art materials, software, computer accessories, gifts, calculators, phone cards, class rings, graduation apparel, snacks, health and beauty aids, university insignia clothing, stamps, and mailing services.

In addition to carrying a large variety of merchandise, the bookstore hosts many special events through out the year to provide additional learning opportunities to the university community and the general public. These opportunities allow students to interact with faculty and/or world-renown authors in an informal setting.

Payment accepted for books and merchandise includes cash, check, traveler checks, Visa, Mastercard and Discover credit cards and UAA WolfBucks.

Textbooks in resalable condition may be returned for refund within 10 school days from the start of class. The original cash register receipt is required to show proof of purchase. All wrapped or boxed books must be returned unopened. Books with unsealed software, CD-ROMs or cassette tapes are not returnable.

General merchandise, supplies, tradebooks, study aids, clothing, calculators in original unopened packaging, etc. may be refundable or exchangeable if damage has not occurred as a result of customer misuse or negligence with 14 days from date of purchase.

The Bookstore is conveniently located near the center of the campus, adjacent to the Campus Center and Sports/PE Facility. Store hours are:

Bookstore Hours:
- Mon-Thurs 8:30 a.m.-7:00 p.m.
- Fri 8:30 a.m.-5:00 p.m.

For further information, please call (907) 786-1151. Or contact our web site at www.uaa.alaska.edu/bookstore/books.html.

INFORMATION AND TECHNOLOGY SERVICES

The Information Technology Services (ITS) Department provides local campus network, computing, telephone, audiovisual, and on-line curriculum services to the UAA community. ITS 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. Up to date service descriptions and related information may be found at www.uaa.alaska.edu/its

TELEPHONE SERVICES

ITS operates UAA's telephone utility. Students living in university residence facilities 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 (WWW.UAA.ALASKA.EDU/ITS/HELP)

The ITS 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 on-line curriculum. The Call Center can be reached by telephone at 786-4646 or by email at callcenter@uaa.alaska.edu. Hours of operation are Monday through Friday, 7:00 a.m. to 7:00 p.m.

CAMPUS OPEN-ACCESS COMPUTER LABS

ITS maintains five open-access computer labs on campus that provide Internet/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 welcome to use these facilities. Lab consultants are available to assist with basic equipment/software operation and campus resources. Consultant hours are posted at each location. Consultant hours can also be accessed by calling the Call Center at 786-4646. Computer Labs and their locations:

- Consortium Library, second floor room 212
- Campus Center, second floor, room 216
- Learning Resource Center (LRC), located in the Sally
- Monsrud Building
- Eugene Short Building (ESB) room 102
- Commons Building, Room 105

For complete information on individual lab resources and hours of operation visit www.uaa.alaska.edu/its/labsnew.

ELECTRONIC MAIL SERVICES (WWW.ALASKA.EDU/ITS/EMAIL)

Email accounts are available to all students, staff and faculty. University IDs (UIDs) and passwords are assigned and regulate account access. The default email address is a UID with @uaa.alaska.edu appended to it. Email accounts can be customized with an alias such as john.doe@uaa.alaska.edu. Students should contact the ITS Call Center or visit www.uaa.alaska.edu/its/email for further information on UIDs and passwords.
WEB HOSTING SERVICE

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 ITS Call Center for further information on this service.

UAA-ONLINE (UAAONLINE.ALASKA.EDU)

UAA-Online is the primary web source for information about distance learning and technologies associated with learning. Many UAA instructors utilize this resource and place course materials online. From this recently revised web location, students, prospective students, faculty, and the community can learn about UAA's distance education courses, BlackboardTM, support services, and faculty training workshops available in support of education. (See Chapter 6, Distance Education Services, for further information).

TRAINING SERVICES

ITS will begin offering a variety of new general interest computer and network related short courses in the Fall 2002 semester. Topics include: "Using BlackboardTM", "Tailoring Email to Meet Your Needs - Where Do I Begin?", and "What's On-line at UAA - Taking Advantage of Net Based Services". These courses will be open to both students and employees. Courses will be held in the ESB Computer Lab located on the west side of campus.

FINE AND PERFORMING ARTS FACILITIES

ARTS BUILDING

The Fine and Performing Arts programs are housed in a 94,000 square-foot building. Included in this innovative structure are studio, laboratory, performance, office, and rehearsal spaces. The facility provides dedicated space for creative work, as well as general classrooms. Included in the Arts Building are spacious and well-lit studios for drawing, painting, sculpture, 3-D design, 2-D design, ceramics, printmaking, and photography. All reflect state-of-the-art design, as well as beauty and practicality. Each studio is equipped with up-to-date tools and furnishings. In addition, there is ample space for displays of student and faculty work.

Theatre facilities include a 175-230-seat thrust/arena mainstage, a 99-seat studio theatre, and complete shop facilities for scenery and costume design and construction.

Music facilities in the 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

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 920 patrons and features theatrical sound and lighting systems, a large mainstage, backstage dressing rooms, scene shop, and a large lobby. For more information, call (907) 786-6815.

HOUSING AND RESIDENCE LIFE

At the University of Alaska Anchorage, we view living on campus as an integral part of your education. Our residence halls and apartments are more than just places to sleep, eat and study; they offer you an experience in community living unlike any other. Four different suites are available in our residence halls: 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 our Main Apartment and Templewood complexes. Bedrooms are carpeted and furnished with beds, desks, closets, dressers, and telephone lines with voice mail. In the new residence halls there are direct ethernet connections to the university's computer network and the world wide web. Templewood and Main Apartment Complex residents, with modems can access the Internet and the campus network.

Residence Life provides programs and activities for residential students including academic support programs, health education, awareness of campus safety, outdoor activities and social interaction. Residents are offered opportunities for involvement in residence hall government through the Residence Hall Association (RHA) and other student interest groups.

FOODSERVICE

A variety of foodservices and menu options are provided in five campus dining areas: The Wolf Den Subway located in the Campus Center, Counter Culture in the College of Arts and Science building, a residential dining facility located in the housing Commons, and a cafeteria and dining room located in the Cuddy Center. The Lucy Cuddy Dining Room located in the Cuddy Center is a fine dining restaurant, open to the public, where very affordable gourmet meals are produced and served by Culinary Arts & Hospitality students. Call for reservations at (907) 786-1122.
STUDENT HEALTH CENTER

The Student Health Center provides educational, preventative, diagnostic and treatment services for health problems. The Center is staffed by advanced family nurse and mental health nurse practitioners. The primary care benefits received by paying the student health fee include routine office care or outpatient services, including family planning and immunizations. Laboratory services, limited medications, and health care supplies are available to participating students at a reduced cost. The Student Health Center is located in the Business Education Building, Room 120, (907) 786-4040.

Students are responsible for their own insurance needs. Health insurance is mandatory for international students on student visas. A group accident and illness plan is available for currently enrolled UAA students. The plan provides extensive benefits at a reasonable cost to students. For an additional premium, dependents and major medical expenses may be covered. Students can obtain more information through the Student Health Center.

SUPPLEMENTAL STUDENT ACCIDENT AND ILLNESS INSURANCE

Students have available a form of supplemental accident insurance for field trips, practicums, and other special UAA events. The cost of this insurance is very reasonable and can be assumed by the student or a department. It is important to note that this insurance is in excess of other insurance covering the student. Information may be obtained by calling (907) 786-1351.

OTHER 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.

STUDENT LEADERSHIP

Student Leadership coordinates leadership training for student leaders involved with student government, clubs, Greek organizations and other leadership positions. Students are assisted in understanding the role and benefits of leadership involvement at the University and in understanding University policies and procedures, provided technical support for student events, and advised in representing their interests effectively. For more information, visit our web site at www.uaa.alaska.edu/studentaffairs/leadership.

CLUB COUNCIL

The Club Council’s purpose is to register new clubs and appropriately fund and support individual clubs. Each club has one representative on the Council. The University of Alaska Anchorage has over 60 clubs and encourages student participation in them. Students may form special interest, ethnic, academic, religious, sports, or social clubs. Clubs provide a service to the University and the community and contribute to students’ social and educational development.

Students who wish to join an existing club or begin a new club may contact the Club Council at (907) 786-1966 or the Student Leadership Office at (907) 786-1371. Visit our website at www.uaa.alaska.edu/clubcouncil.

GREEK COUNCIL

The Greek Council serves as the governing body for two national sororities and three national fraternities at the University of Alaska Anchorage. The council consists of a four member executive board, one delegate from each chapter and an advisor. The council meets twice a month to strengthen ties of communication between the chapters. The Council coordinates group activities such as dances, barbecues, and study groups and places a high value on community service work and philanthropy. Students interested in joining or starting a sorority or fraternity may call the Student Leadership Development Office at (907) 786-1371. Visit our website at www.uaa.alaska.edu/greeklife.

LEADERSHIP HONORS

Individual leadership is publicly recognized at UAA with Leadership Honors awarded to eligible graduates. Academic excellence is demonstrated by maintaining a minimum cumulative 3.00 GPA. Other criteria include leadership involvement for four semesters if receiving a bachelor’s degree and two semesters if receiving other certificates and degrees. Each student receiving Leadership Honors is recognized by a crimson honor cord at graduation and notation in the commencement program and on transcripts. For more information and applications, please contact the Student Leadership Office at (907) 786-1371.

STUDENT GOVERNMENT

The Union of Students of the University of Alaska Anchorage (USUAA) is the official representative body of the students. Every student who pays the student government fee is a member. The purpose of USUAA is to represent the student body in issues affecting students on the campus whether they involve current world issues, the administration, the Board of Regents, the community, or the legislature. The USUAA allocates the student government fee to provide activities, resources, and services to students. USUAA holds elections each fall and spring semester to fill student leadership positions. For more information contact USUAA at (907) 786-1205. or visit our website at www.uaa.alaska.edu/usuua. 
UNIVERSITY POLICE DEPARTMENT

The University Police Department is present 24 hours a day, 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:

- Disabled Vehicles
- First Aid / CPR
- Emergency Messages
- Traffic and Parking Problems
- Fire and Safety Issues
- Safety Escorts

The University Police Department can be contacted by calling (907) 786-1120 from an off-campus phone or by dialing 61120 on an in-house phone. In the event of an emergency the department can also be contacted by utilizing 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.

ANIMALS ON CAMPUS

The main campus of the University of Alaska Anchorage is situated next to a greenbelt and several small lakes. Moose, coyotes and the occasional sighting of a black bear wandering on the bike trails are just some of the unique wildlife attractions. People must remember that these are wild animals and their actions are unpredictable. Please maintain a safe distance from these wild animals and notify University Police whenever you see them on campus. The feeding and/or harassment of any wild animal is a violation of the University Student Code of Conduct and the state law. Officers will enforce these statutes and policies.

Anyone wishing to bring a personal pet onto campus is asked to first contact the University Police department in order to learn how to do so properly. In essence, pets are not permitted into any of the campus buildings without prior permission. Any animals outside of the buildings must be on a leash, in a cage, or under some form of restraint.

CAMPUS PARKING

Campus parking lots have space for more than 3,000 vehicles. However, motorists attempting to park during preferred class times may have to do so across campus and walk the additional distance. The UAA Seawolf Shuttle Service runs continuous loops 7 a.m. - 7 p.m. weekdays between all main parking lots for student and staff convenience. All campus lots are paved, lighted, and patrolled.

Vehicles parked in restricted areas without proper decal or permit are ticketed and may be impounded at a cost of $50 or more to the owner.

Campus parking tickets may be paid at the Parking Services Department in the University Lake Building from 8 am to 5 pm, Monday through Thursday, and from 8:00 am to 4:30 pm, Friday. Failure to pay parking tickets may result in withholding of transcripts or grades, or impounding of a vehicle. Uniform Traffic Citations are issued for moving violations and may be paid in District Court, downtown Anchorage.

EMERGENCIES AND FIRST AID

Emergency messages may be transmitted and first aid treatment received by contacting the University Police Department (907) 786-1120 in the Eugene Short Building. Please report unsafe conditions such as those encountered during winter and all on-campus injuries to the University Police Department.

HANDICAP PARKING

Disabled students, faculty, staff, and visitors may be eligible for special parking spaces available in each lot on the UAA campus. These parking spaces display distinctive blue-and-white logos. They are reserved for persons with physical impairments who receive permission to park in these spaces from the Department of Motor Vehicles, State of Alaska. Motorists who park illegally in disabled spaces will be ticketed. Vehicles may also be impounded at owner expense.

LOST AND FOUND

Two centralized lost-and-found property storage areas are maintained on campus. The University Police accepts wallets, keys, and items that are valued at $250.00 or more. To check for a lost item or to recover found property, contact the University Police Department, Eugene Short Building at (907) 786-1120.

The Campus Center Information Desk accepts all other lost items. To recover found property, contact Campus Center Information Desk at (907) 786-1204.

SMOKE-FREE ENVIRONMENT

University of Alaska Anchorage is committed to providing faculty, staff, and students with a safe and healthy environment for work and learning. Smoking and secondhand smoke have been found to pose definite health hazards. As a result, smoking is not permitted in University facilities.

All University of Alaska Anchorage 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.

As with any policy or regulation, violation of the smoke-free environment policy by staff, faculty, or students may result in disciplinary action. Campus buildings will be posted with NO SMOKING signs, notifying all visitors of the smoke-free environment of the University of Alaska Anchorage.

SPEED LIMITS

Unless otherwise posted, the campus speed limit is 20 miles per hour. Radar and marked patrol cars are used to ensure safety and compliance.
CHAPTER 6

EDUCATIONAL DELIVERY SERVICES

Chugiak-Eagle River Campus
Distance Education Services
Education Services for the Military
Workforce Development and Community Education
Summer Sessions
CHUGIAK-EAGLE RIVER CAMPUS

Located in the community of Eagle River, ten miles north of Anchorage, this extended site focuses on delivering a variety of general education and degree-oriented courses, in addition to special topics such as tourism and travel study courses, to residents of the Chugiak-Eagle River community. In addition to the many classes which utilize Chugiak High School, facilities located at the Eagle Center includes five classrooms, one computer lab, one study area with computers, registration and administrative offices. For more information, call (907) 694-3313 or visit their website at www.uaa.alaska.edu/eagle.

DISTANCE EDUCATION SERVICES

Many UAA departments, schools and colleges offer technology-enhanced courses. While technology in the classroom can be used to accomplish many things, one of the primary reasons technology is employed in education is to provide “distance education.” The simplest definition of a distance course is a class in which the student is not required to physically visit the campus from which the class originates. Additionally, 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.

Distance Education at UAA currently encompasses three delivery systems: broadcast television, web-based, and tapes-at-home. The per-credit cost of these courses is the same as for on-campus classes. An additional fee of $38 is charged for audio-conferencing, exam proctoring, faculty/student training in BlackboardTM, mailing/tape copying charges and copyright fees. In conjunction with CAFÉ (Center for Advancing Faculty Excellence) and the UAA Complex Systems Lecture Series, Distance Education also supports web-streaming for special topic presentations and will add streaming video capability in support of distance courses soon.

Distance education courses can be applied toward UAA degree programs (no distinction is made on the transcript between distance-delivered and on-campus credit). For more information about how to register for distance-delivered courses, hardware and software requirements, and the unique student-faculty interactions, please visit our website: http://uaaonline.alaska.edu.

Distance education courses are offered throughout the year during fall, spring, and summer sessions. An experienced and helpful staff at the Academic Technology Services Department, located in Building K, Room 134, provides a variety of support services to both faculty and students. For more information, call (907) 786-4646, (toll-free 1-877-633-3888), or e-mail your inquiry to ayats@uaa.alaska.edu.

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.
- Distance courses are not “easier” than on-campus courses. In fact, most studies suggest that 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 should be listed in the course schedule. Students may also call ITS Call Center (see below) to inquire about course requirements.
- All students enrolled in distance education courses have access to UAA’s ITS Call Center for technical and course-related support questions. Dial (907) 786-4646 or toll-free at (877) 633-3888 for assistance.
- Visit uuaonline.alaska.edu for detailed information on enrolling in distance education courses.

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

Web-Based Instruction

Course materials and activities are performed on-line using standard Internet access tools (i.e., Internet Explorer or Netscape Navigator).

Audio Conferencing:

Students and instructors conduct meetings via the telephone. Students dial a toll-free access number to enter the audio conference.

Instructional TV:

Course materials are distributed via GCI Cable Channel 42 and KAKM Channel 7.

Video / Audio Tapes:

Course materials are distributed via VHS video tapes or audio cassettes.

Streaming Media:

Instructional video or audio is broadcast via the Internet.

CD-ROM Instruction:

Course materials and activities are distributed on PC and Mac compatible CD-ROM.

Correspondence:

Course materials are mailed to and from the student.

Proctoring Services:

Student quizzes, tests, and exams are administered at remote testing sites such as public schools, libraries, or community centers.

UNIVERSITY OF ALASKA LEARNING COOPERATIVE (UALC)

The UALC is an organization of representatives from throughout the University system which is responsible for coordinating UA’s distance education programs towards the accomplishment of common goals. The UALC supports efforts to make more courses and programs available to students away from Alaska’s urban centers through the use of instructional technology and by encouraging collaborative delivery of these programs among UA units. The UALC also supports the use of alternative methods of instruction to meet the needs of students for whom regular campus-based programs are impossible, due to the demands of employment, family or community commitments. The UALC Bulletin contains information about programs which are available to students throughout the state, regardless of where the students live, and about additional courses and sections available to students through non-traditional means.
CORRESPONDENCE STUDY
Within the University of Alaska system, correspondence study is administered through the University of Alaska Fairbanks campus. The University of Alaska correspondence study is considered resident credit. The UAA Advising and Counseling Center has brochures for this program and can proctor exams. Brochures are also available at Enrollment Services, in the Administration Building, Room 176 (907) 786-1480.

EDUCATION SERVICES FOR THE MILITARY
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 service member’s 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. For more information, call (907) 753-7119.

SOUTHCENTRAL REGION MILITARY EDUCATION SERVICES
ELMENDORF AFB
On Elmendorf Air Force Base, five miles north of Anchorage, the education center is located on Bullard Avenue. Degree programs offered on base include 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. For more information, call (907) 753-0204.

FORT RICHARDSON
Situated seven miles northeast of Anchorage on Fort Richardson Army Post, the education center is located in Building 658 on 5th Street. Degree programs include 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. For more information, call (907) 428-1228.

NORTHERN REGION MILITARY EDUCATION SERVICES
EIELSON AFB
Eielson Air Force Base, some 30 miles east of Fairbanks, maintains an education center in the Education Services Building. Program offerings include course work toward 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 a Bachelor of Business Administration and a Master of Public Administration. For more information, call (907) 372-3484.

FORT WAINWRIGHT
The Fort Wainwright Education Center is located in Building 2107 on the Ft. Wainwright Army Post east of Fairbanks. The center provides course work toward 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 a Bachelor of Business Administration and a Master of Public Administration. For more information, call (907) 353-6395.

WORKFORCE EDUCATION AND COMMUNITY DEVELOPMENT
Workforce Education and Community Development offers programs responsive to the lifelong learning requirements of professionals who hold licenses, certificates, or degrees, as well as courses to train new paraprofessionals. Academic credit and Continuing Education Units (CEU) offerings can be arranged. Programs are developed through partnerships with professionals in the community, public and private agencies and organizations, and academic faculty.

In addition, non-credit and CEU community education classes are offered in the following areas: the arts, business, finance and law, computer training, languages, personal enrichment, professional education, test preparation, trades, and aviation. For more information, call (907) 786-6750.

SUMMER SESSIONS
Over 5,000 students per year enroll in the undergraduate and graduate courses offered by the University’s Office of Summer Sessions. Classes are taught by both UAA and distinguished visiting faculty from national and international universities. In addition to standard academic classes, the campus hosts and sponsors numerous special programs and institutes for learners ranging in age from 8 to 86 years. The summer student population includes health care, education and business professionals enrolled in continuing education programs; youth participating in academic preparation programs, cultural programs or athletic programs; retirees participating in Elderhostel programs; current students working on degree requirements; visiting students from other universities across the United States; and, high school students getting a head start. Campus housing is available and individuals seeking summer housing are encouraged to make reservations early. To receive further information about summer programs, please visit the website: www.uaa.alaska.edu/summer or call: (907) 786-6740 or Toll-free (888) 655-9876.
CHAPTER 7

CENTERS AND INSTITUTES

Alaska Small Business Development Center
The American Russian Center
The Center for Alcohol and Addiction Studies
Center for Economic Education
Center for Human Development: University Affiliated Program
Environment and Natural Resources Institute
Institute for Circumpolar Health Studies
Institute of Social and Economic Research
Justice Center
North Pacific Fisheries Observer Training Center
University of Alaska Center for Economic Development
CENTERS AND INSTITUTES

ALASKA SMALL BUSINESS DEVELOPMENT CENTER
The Alaska Small Business Development Center is a cooperative program of the U.S. Small Business Administration and the University of Alaska Anchorage. 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 the Small Business Innovation Research (SBIR) proposal assistance and technical data base 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.

THE AMERICAN RUSSIAN CENTER
The American Russian Center 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.

ARC has centers in Khabarovsk, Sakhalin, Yakutsk and Magadan and satellite centers in Yakutsk, Petropavlosk-Kamchatsky, Komsomolsk, Blagoveschenk, 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 (fax and telephone).

ARC provides a small RFE business library which is available to the public during business hours. The library contains city information on Vladivostok, Khabarovsk, Yuzhno-Sakhalinsk, Yakutsk, Nachodka, 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, Commerants the Business Directory of the NIS, Interfax Bulletins and many other business journals, newspapers and directories.

ARC develops and conducts specialized business training programs for Russian employees of U.S. and Russian companies in a variety of areas.

ARC is located in the Business Education Building at the University of Alaska Anchorage. It is operated by the University of Alaska Anchorage.

THE CENTER FOR ALCOHOL AND ADDICTION STUDIES
The Center for Alcohol and Addiction Studies (CAAS) addresses the continuing need for research, education and training to contribute to the reduction of substance abuse-related problems in Alaska. CAAS’s recent affiliation with the Institute for Circumpolar Health has increased the Center’s ability to fulfill its mission.

The Center’s research programs seek to expand the body of knowledge on the nature and scope of alcohol and drug abuse problems in Alaska, and their relation to other public health problems.

The Center also addresses the continuing need for skill development and training by professionals working in health science disciplines or health-related fields. The unique Alaskan environment requires that human service professionals acquire both cross-cultural and cross-discipline experiences. Part of the mission of the Center is to provide such education and training for professionals and students in substance abuse and substance abuse related fields.

The Center conducts a wide range of public service activities that include conferences and special workshops on substance abuse for health professionals and for the general public.

CENTER FOR ECONOMIC EDUCATION
The Center for Economic Education is jointly sponsored by the Alaska Council on Economic Education and the University of Alaska Anchorage. 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: UNIVERSITY AFFILIATED PROGRAM**

The Center for Human Development: University Affiliated Program is an interdisciplinary unit within the University of Alaska Anchorage, under the College of Health, Education 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 for Human Development is authorized under the Developmental Disabilities Assistance and Bill of Rights Act as a Center for Excellence in Developmental Disabilities (formerly known as University Affiliated Programs) to build capacity within states and communities to respond to the needs of individuals and their families who experience developmental and other persistent disabilities. The Center serves as a liaison between the academic world and the service delivery system. It collaborates with a variety of state agencies and community providers to support independence, productivity and integration into the community of individuals and their families who experience developmental disabilities providing the following:

1. Provide interdisciplinary pre-service preparation and continuing education of students.
2. Provide community service, training and technical assistance for individuals with developmental disabilities, their families and support staff; and provide services, supports and assistance through demonstration and model activities.
3. Conduct research including applied research, evaluation, and the analysis of public policy in areas that affect individuals with developmental disabilities and their families.
4. Disseminate information about persons with disabilities and professional “best practices.”

The Center has a variety of projects which provide paid work experience for student assistants.

The Center for Human Development is located off campus at 2210 Arca Drive, phone 272-8270, fax 274-4802 and website: www.alaskachd.org.

**ENVIRONMENT AND NATURAL RESOURCES INSTITUTE**

The Environment and Natural Resources Institute (ENRI) is an information and applied research center of the University of Alaska Anchorage that focuses on Alaska’s environment and natural resources. It traces its history to 1972 when the Alaska legislature established the Arctic Environmental Information and Data Center as a referral and applied research center for Alaska’s natural resources. ENRI’s chief goal is to provide sound scientific data and analyses without advocacy for use in natural resource and environmental decision making. The Institute assembles and synthesizes natural science knowledge, designs and conducts field and literature investigations, develops and maintains specialized databases on Alaska and its resources, communicates and disseminates information without advocacy, provides technical training and support for environmental monitoring programs, and offers educational opportunities for students and the general public. ENRI conducts research on Alaska’s environment, natural resources, and peoples. It has four programs open to the public that maintain specialized collections of information.

**ARCTIC ENVIRONMENTAL INFORMATION AND DATA CENTER**

The Arctic Environmental Information and Data Center (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.

**ALASKA STATE CLIMATE CENTER**

The Alaska State Climate Center (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.

**ALASKA NATURAL HERITAGE PROGRAM**

The Alaska Natural Heritage Program (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.

**RESOURCE SOLUTIONS**

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

The Institute for Circumpolar Health Studies (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 academic course work, internships and research assistantships.

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 health research and practice, internationally.

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

The Institute of Social and Economic Research (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

The Justice Center at the University of Alaska 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.

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

The North Pacific Fisheries Observer Training Center (OTC), located at 707 A Street, provides training for bottomfish, crab, and scallop fishery observers. Working in conjunction with 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 and shellfish 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 conservation of Alaska’s marine resources. For more information, call (907) 257-2770 or visit their website at www.uaf.alaska.edu/otc.

UNIVERSITY OF ALASKA CENTER FOR ECONOMIC DEVELOPMENT

The mission of the University of Alaska Center for Economic Development 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 Alaska Department of Community and Economic Development and the Alaska Department of Community and Regional Affairs.
CHAPTER 8

ACADEMIC POLICIES

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Recommendations
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ACADEMIC DISHONESTY

Academic integrity is a basic principle which requires that students take credit only for ideas and efforts that are their own. Cheating, plagiarism, and other forms of academic dishonesty are defined as the submission of materials in assignments, exams, or other academic work which is based on sources prohibited by the faculty member. Academic dishonesty is further defined in the “Student Code of Conduct” in Chapter 5 of this catalog.

ACADEMIC DISPUTE RESOLUTION PROCEDURE

Challenges to academic decisions or actions of the faculty or academic administration will be reviewed according to this procedure which implements the UA Board of Regents Policy 09.03.02 and its accompanying University Regulation on Resolution of Disputes Regarding Academic Decisions or Actions. Appropriate issues for this procedure include such things as alleged arbitrary and capricious dismissal from or denial of admission to an academic program based upon academic considerations or 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.

ACADEMIC DECISION REVIEW COMMITTEE

An academic decision review committee is an ad hoc committee to formally review a contested final grade assignment or other academic decision. The committee will be composed of faculty, a non-voting committee chair who may be a faculty, and a non-voting student representative. The dean/campus director or designee will appoint faculty or staff committee members. The campus student government president will appoint the student representative, from a list of students recommended by the dean/campus director or designee. To be eligible, the student must be currently enrolled in at least three credits, in good disciplinary standing, with a cumulative grade point average of 3.0 or higher.

If the academic decision being challenged is for a graduate course or program, the faculty appointed will be from those departments with graduate programs. The student committee member will be a graduate student.

ARBITRARY AND CAPRICIOUS GRADING

Arbitrary and capricious grading means the assignment of a final course grade on a basis other than performance in the course; the use of standards different from those applied to other students in the same course; or substantial, unreasonable and/or unannounced departure from the course instructor’s previously articulated standards or criteria (see also “grading error.”)

CLASS DAY

As used in the schedule for review of academic decisions, a class day is any day of scheduled instruction, excluding Saturday and Sunday, included on the academic calendar in effect at the time of a review. Final examination periods are counted as class days.

FINAL GRADE

The final grade is the grade assigned for a course upon its completion.

GRADING ERROR

A grading error is a mathematical miscalculation of a final grade or an inaccurate recording of the final grade (see also “arbitrary and capricious grading”).

NEXT REGULAR SEMESTER

The next regular semester is the fall or spring semester following the semester in which the disputed academic decision was made. For example, it would be the fall semester for a final grade issued for a course completed during the previous spring semester or summer session. The spring semester is the next regular semester for an academic decision made during the previous fall semester.

PROCEDURES FOR RESOLVING DISPUTES REGARDING FINAL GRADE ASSIGNMENT

Students may challenge a final grade assignment on the basis of alleged grading error or arbitrary and capricious grading.

Because grades can affect such things as a student’s eligibility for continued financial aid, students must learn their final grades and initiate a review, where desired, as soon as possible.

The time schedule outlined in this procedure stipulates maximum time periods within which to complete stages of the review. However, permission for extensions of time may be granted, in writing, by the dean/campus director or designee.

PROCEDURES AND PENALTIES FOR ACADEMIC DISHONESTY

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 Chapter 5 of this catalog. Academic actions are reviewable under the Academic Dispute Resolution Procedure contained in Chapter 5 of this catalog.

INFORMAL PROCEDURE FOR ACADEMIC DISPUTES REGARDING FINAL GRADE ASSIGNMENT

Where possible, students will be expected to first request an informal resolution of the final grade assignment with the course instructor or department chair/academic leader. The process must be initiated by the 15th class day of the next regular semester at UAA. The instructor or department chair/academic leader must respond to the request within 5 class days of receipt.

If the course instructor’s decision is to change the final grade, the instructor must promptly initiate the process. If the instructor does not change the grade and the student’s concerns remain unresolved, the student may notify the department chair/academic leader responsible for the course. Within 5 class days of such notification, the department chair/academic leader must either effect resolution of the issue with the instructor or inform the student of the process for formally appealing the final grade assignment.

If the course instructor is no longer an employee of the University or is otherwise unavailable, the student must notify the department chair/academic leader by the 15th class day of the next regular semester. Within 5 class days of notification by the student, the department chair/academic leader must either effect resolution of the issue through contact with the course instructor or inform the student of the process for formally appealing the final grade assignment.
FORMAL PROCEDURES FOR ACADEMIC DISPUTES REGARDING FINAL GRADE ASSIGNMENT

A student formally requesting a review of a final grade assignment must provide the dean/campus director or designee a signed, written request for a formal review, indicating the basis for requesting a change of grade.

The request must be filed by the 20th class day of the next regular semester or within 5 class days of receipt of notification of the process for filing a formal review by the department chair/academic leader after completion of any informal review. The dean/campus director or designee will convene an academic decision review committee.

The written request for a formal review from the student will be forwarded to the academic decision review committee by the dean/campus director or designee. The committee chair will convene the committee within 10 class days of receipt of the student's written request for review. The committee will first consider whether the facts submitted by the student warrant a formal hearing and, if so, conduct the hearing. The student and the course instructor must be notified in writing at least 3 class days in advance of the time and place the request will be considered and of the process to be followed.

If an initial review the academic decision review committee determines that the facts as presented would not constitute arbitrary or capricious grading or a grading error, the committee will dismiss the case without a formal hearing. This decision will constitute the final decision of the University. The committee's decision will be provided in writing by the committee chair to the student, the course instructor, the department chair/academic leader, and the dean/campus director.

ACADEMIC DECISION REVIEW COMMITTEE HEARINGS

If the academic decision review committee determines that the facts as presented might constitute arbitrary or capricious grading or a grading error, the committee will proceed to a formal hearing. The committee will consider information provided by the student, the course instructor if available, and others as it sees fit.

Academic dispute hearings will normally be closed. Requests for an open proceeding must be made in writing by a party prior to the start of the hearing to the committee chair. Such requests will be granted to the extent allowed by law unless the committee chair determines that all or part of a proceeding should be closed based upon considerations of fairness, justice, and other relevant factors. A party may choose an advisor to be present at all times during the proceedings. However, the advisor may not speak on behalf of the party.

The committee may direct that witnesses, but not the parties or their advisors, be excluded from hearing except during their testimony. The deliberations of the committee will be closed to the public, the parties, and their advisors.

ACADEMIC DECISION REVIEW COMMITTEE DECISIONS

The academic decision review committee proceedings will result in the preparation of written findings and recommendations to the dean/campus director or designee and the student. The committee chair will be responsible for the preparation of a record of the hearing.

The academic decision review committee proceedings will result in the preparation of written findings and recommendations to the dean/campus director or designee and the student. The committee chair will be responsible for the preparation of a record of the hearing.

The request must be filed by the 20th class day of the next regular semester, or within 5 class days of receipt of notification of the process for filing a formal review by the department chair/academic leader after completion of any informal review. The only exception will be when written permission for an extension of time is granted by the dean/campus director or designee.

ACADEMIC DECISION REVIEW COMMITTEE DECISIONS

1. The request for a grade change is denied;
2. The request for a grade change is upheld and the course instructor changes the grade; or
3. The request for a grade change is upheld and the course instructor is either unavailable to change the grade or refuses to do so. The committee directs the dean/campus director or designee to initiate the process to change the grade to that specified by the review committee.

The decision of the academic decision review committee constitutes the final decision of the University, and will be provided in writing to the student, the course instructor, the department chair/academic leader and the dean/campus director. The committee chair will be responsible for the preparation of a record of the hearing.

Unless an extension has been granted by the dean/campus director or designee, disputes concerning final grades must be completed by the end of the next regular semester following the assignment of the grade.

PROCEDURES FOR RESOLVING DISPUTES REGARDING DENIAL OF ADMISSION TO OR DISMISSAL FROM A PROGRAM OF STUDY FOR ACADEMIC REASONS

A student formally requesting a review of a denial of admission to or dismissal from a program for academic reasons must provide the dean/campus director or designee a signed, written request for a formal review, indicating the basis for requesting a review.

The request must be filed by the 20th class day of the next regular semester, or within 5 class days of receipt of notification of the process for filing a formal review by the department chair/academic leader after completion of any informal review. The only exception will be when written permission for an extension of time is granted by the dean/campus director or designee.

Formal reviews and hearings of academic decisions regarding denial of admission to or dismissal from a program for academic reasons will be conducted by an academic decision review committee according to the same timelines and procedures for academic disputes regarding arbitrary and capricious grading or a grading error with the following exceptions:

1. The academic decision review committee proceedings will result in the preparation of written findings and recommendations to the dean/campus director or designee and the student. The committee chair will be responsible for the preparation of a record of the hearing.
2. The student will be given an opportunity to comment on the findings and recommendations of the committee. Written comments must be submitted to the dean/campus director or designee within 7 class days of the day the committee findings and recommendations are sent to the student.
3. The dean/campus director or designee will review the written findings and recommendations of the academic decision review committee, the record of the hearing and any written comments submitted by the student and make a decision. The dean/campus director or designee's decision will constitute the final decision of the University on the matter and will be provided, in writing, to the student, the department chair/academic leader and the committee.
4. The provost will make the final decision of the University on the matter if the dean/campus director or designee is the person who made the academic decision under review.

Unless an extension has been granted by the dean/campus director or designee, final decisions must be completed by the end of the next regular semester following the date of the denial of admission to or dismissal from a program for academic reasons.
OTHER ACADEMIC DECISIONS

Review procedures for all other academic decisions may be obtained from the department chair/academic leader, the dean/campus director or the UAA course catalog.

Disputes regarding decisions associated with appropriate academic adjustments and programmatic accommodation for students with disabilities will be reviewed according to procedures set forth in University Regulation 09.06.00 Services for Students with Disabilities.

ELIGIBILITY FOR SERVICES PENDING FINAL DECISION IN THE REVIEW PROCESS

During the review of an academic action or decision by the University, the action or decision being contested will remain in effect until the dispute is resolved. Should an academic action or decision affect the student’s eligibility for financial aid, housing, or other University service, the student will be informed of the steps to be taken that may maintain or reinstate the affected service. The student will be responsible for initiating any necessary actions or procedures.

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.

Final authority to deny or approve petitions pertaining to school/college requirements rests 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 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.

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.

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 can not be petitioned to meet a GER.

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 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 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.

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.

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 a bona fide emergency absence or an official university absence as described below may be appealable under the Academic Appeals Process.

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.

A faculty member may initiate a drop/withdrawal for students who fail to meet individual course attendance requirements; however, the faculty member is under no obligation to do so. An instructor withdrawal may be initiated for those students who enroll without either prerequisites or instructor permission.

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. Students are classified as follows:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Class Standing</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 29</td>
<td>Freshman/First Year</td>
</tr>
<tr>
<td>30 - 59</td>
<td>Sophomore/Second Year</td>
</tr>
<tr>
<td>60 - 89</td>
<td>Junior</td>
</tr>
<tr>
<td>90+</td>
<td>Senior</td>
</tr>
</tbody>
</table>

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.

COREQUISITES

Students are responsible for making sure that they enroll and attend all corequisite courses in the same semester at the same time. Corequisites are listed in the individual course descriptions in this catalog. An instructor withdrawal may be initiated for those students who do not enroll for the appropriate corequisites.

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.

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 and 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 international institutions for which there is an approved affiliation 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.
ACADEMIC POLICIES

TRANSFER CREDIT

Where possible, transfer credit is equated with University of Alaska Anchorage courses. When this is not possible, evaluators may grant specifically designated elective credit to meet a General Education Requirement. The principle that governs approval of substituting transferred credits for General Education or College Wide degree requirements is that only course work that clearly and demonstrably satisfies the intent of the requirement can be accepted as a substitute. The University of Alaska Anchorage 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 accepted to degree-seeking status.

ACCREDITED COLLEGES/UNIVERSITIES

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 Association of Colleges and Schools
   —Southern Association of Colleges and Schools
   —Western Association of Schools and Colleges
2. Only college-level (100 level or above) courses completed with grades equal to “C” (2.00) or higher are considered for transfer.
3. Students who plan to transfer credits from international institutions must provide an official statement of educational equivalence from a recommended credentials evaluation service. Addresses are available from Enrollment Services. The fee depends 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. A student’s entire transcript from UAF and/or UAS will be transferred to UAA subject to applicability toward degree requirements.

UNACCREDITED INSTITUTIONS

As a practice, the University of Alaska Anchorage accepts as transfer credit only those credits earned by students at institutions accredited by regional accrediting associations. Accreditation by such associations, recognized by the U.S. Department of Education, demonstrates that the institution operates within commonly accepted standards of instruction. Credits from unaccredited institutions are not normally accepted.

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:

<table>
<thead>
<tr>
<th>Category</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Communication Skills</td>
<td>6</td>
</tr>
<tr>
<td>Oral Communication Skills</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Social Sciences/Fine Arts</td>
<td>15</td>
</tr>
<tr>
<td>Quantitative Skills/Natural Sciences</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>34</td>
</tr>
</tbody>
</table>

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 University of Alaska Southeast or University of Alaska Fairbanks will be considered as having met University of Alaska Anchorage’s General Education Requirements.

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 not permitted.
2. Forms not correctly 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. The deadline for directed study registration is the end of the ninth week of the fall and spring semesters.
5. 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.
6. Only permanent or term faculty are allowed to supervise or to be the Instructor of Record for Directed Study courses. Deans and Directors may function as Instructor of Record when no permanent or term faculty are available to fulfill that function. The responsibilities of the Instructor of Record are: a) see that the grades are turned in to Enrollment Services; b) see that the material is presented in full in a timely manner; c) approve the course of study; d) approve the credentials of other faculty involved; e) agree to assume responsibility if problems arise.
7. The faculty member must have taught the permanent course or a related course prior to teaching a directed study.
8. The initiation of directed studies must come from the faculty in the discipline.
FACULTY-INITIATED WITHDRAWALS

A faculty member may initiate a drop/withdrawal for students who fail to meet individual course attendance requirements; however, the faculty member is under no obligation to do so.

At the beginning of the semester, faculty may begin to drop students who fail to attend class by the 7th calendar day of the semester.

Faculty-initiated drops/withdrawals are permitted through week 12 of the semester for semester-length courses (15 weeks). For courses other than semester length, the faculty option to drop/withdraw a student for non-attendance is prorated according to the length of the course. An instructor withdrawal may be initiated for those students who enroll without either prerequisites or instructor permission.

Faculty initiated drop/withdrawal forms are available from Enrollment Services in the Administration Building.

FULL-TIME/PART-TIME STATUS

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, and Continuing Education Units (CEUs) are not included in the computation of study load for full-time or part-time status.

GPA AND STUDENT ACTIVITIES

Students with satisfactory academic performance are eligible for participation in intercollegiate competition or extracurricular activities. Students may not participate in intercollegiate competition or cocurricular 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.

GRADING

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

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

With the exception of letter grades assigned to 500 level courses, these letter grades carry grade points and are used to calculate GPAs.

Non-Academic Grades
CR Indicates credit received for course.
NC Indicates no credit received for course.
DF Deferred; temporary grade which indicates course requirements cannot be completed by end of semester. It is to be used for courses which can not normally be completed in a semester (such as thesis, project, research courses, internships, etc.).
I Incomplete; temporary grade that indicates additional work must be completed to receive a final grade. If the course work is not completed within one year and the faculty member does not submit a change of grade at that time, the “I” (incomplete) will become a permanent grade.
P Indicates passing work.
NP Indicates work that is not passing.

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.

Other Designations
AU Audit; indicates enrollment for information only; no credit received.
W Indicates withdrawal from course.

These designations do not carry grade points and are not used to calculate GPAs.
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/NC). Students are awarded credit for the course if their final grade is “P” or “C” or higher. A grade of “CR” is entered on the student’s transcript. 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 2 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 “DF” is a temporary grade. It is used to indicate that the course requirements cannot be completed by the end of the semester. It is to be used for courses which cannot normally be completed in a semester (such as thesis, project, research courses, internships, etc.). Credit will be withheld, without academic penalty, until the course requirements have been met. If course work is not completed prior to applying the course towards a graduation requirement, the “DF” will become a permanent grade and it will be necessary for the student to re-register to obtain credit for the course.

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 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. The grade point average (GPA) is computed by dividing the total cumulative quality grade points earned (Q Pts) at UAA by the total quality hours attempted (Q Hrs).

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 repeated courses are also included in calculating the student’s GPA for graduating with honors. Academic letter grades carry the following grade points:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>P</td>
<td>0.00</td>
</tr>
</tbody>
</table>

The number of credits (for example, 3) is multiplied by the grade point value of the grade (for example, A = 4) to give the total grade points (for example, 12) for each course. The total number of quality grade points (Q Pts) is then divided by the total number of quality hours attempted (Q Hrs).

Non-academic grades do not carry grade points and are not used in calculating the GPA: “CR”, “NC”, “DF”, “I”, “P”, “NP” and letter grades assigned to 500 level courses. In addition, “AU” and “W” are not grades and are not used in GPA calculations. (See Grading).

INCOMPLETE GRADE
An “I” (Incomplete) is a temporary grade. 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 signed 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 for each “I” grade assigned and is to be maintained in the department or dean’s office. Course work must be completed by a date specified in the contract, not to exceed one year. Upon completion of the required course work, the faculty member must submit a change of grade form to Enrollment Services. If course work is not completed within one year or if the terms specified on the Incomplete Contract are not met, the student may be assigned a failing grade (F or NP, depending on the grading basis of the course). If course work is not completed within one year and the faculty member does not submit a change of grade at that time, the “I” will become a permanent grade 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.
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, a student must:

1. Be formally admitted a minimum of one semester prior to applying for graduation.
2. Submit an Application for Graduation and the $20 fee to Enrollment Services by the end of week two of the semester. Upon receipt of the student’s Application for Graduation, a review is completed. If the student has met all requirements, the certificate or degree is awarded at the end 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 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 re-apply for graduation and pay the fee again.

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 at UAA and at all other institutions attended 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, repeated courses, courses lost in academic bankruptcy, courses from non-accredited institutions, 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

HONORS LIST

Admitted undergraduate degree/certificate seeking students maintaining exceptional academic achievement are recognized after the fall, spring, 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 the 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 the 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.

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 the 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 not permitted.
2. Independent study courses cannot be used to fulfill GER (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 credit each week.
5. The deadline for independent study registration is the end of the ninth week of the fall and spring semesters.
6. Only permanent or term faculty are allowed to be the Instructor of Record for the Independent Study courses. Deans and Directors may function as Instructor of Record when no permanent or term faculty are available to fulfill that function. The responsibilities of the Instructor of Record are to: a) see that the grades are turned in to Enrollment Services; b) see that the material is presented in full in a timely manner; c) approve the course of study; d) approve the credentials of other faculty involved; e) agree to assume responsibility if problems arise.
7. The initiation of independent study courses must come from faculty in the discipline.
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 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 in 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.

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

2. 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.

CREDIT FOR PRIOR LEARNING
For some courses, students may receive non-traditional credit on a case-by-case basis by documenting their prior learning through experience and training. The process involves faculty and administrative review, an initial evaluation fee, and a fee for each credit awarded. Currently credit for prior learning (non-traditional experience and training) is in suspension.

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.

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 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
Eight elective credits may be awarded to students who have completed one calendar year of active duty military service. In addition, credits may be transferred from formal service schools and MOS/Ratings 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 are awarded toward an associate degree and no more than 30 semester credits are awarded toward a baccalaureate degree. Exceptions are granted only to students enrolled in the SOCAD or SOCONV programs.

The Service members Opportunity Colleges (SOCAD and SOCONV) 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 semester credits to be completed in residence at UAA for the associate program and 6 semester credits in residence at UAA for the baccalaureate program. These credits must be 100-level or higher.

To graduate from these programs, the residency requirement is three semester credits for the two-year programs and 24 semester credits for the four-year program.

Please contact Enrollment Services for further information regarding required documentation and forms.
COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)
An Official CLEP Transcript must be submitted to Enrollment Services.

1. General Exams
UAA awards up to 24 credits for CLEP general exams to students who earn a score of 500 or higher. Credit for CLEP general exams are awarded according to the following standards:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>0 Credits</td>
</tr>
<tr>
<td>No Credit awarded</td>
<td></td>
</tr>
<tr>
<td>English Composition with Essay</td>
<td>3 Credits</td>
</tr>
<tr>
<td>ENGL 111 - GER</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>3 Credits</td>
</tr>
<tr>
<td>Lower Division Elective, Non-GER</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>6 Credits</td>
</tr>
<tr>
<td>Humanities and/or Fine Arts - GER</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td>6 Credits</td>
</tr>
<tr>
<td>Social Sciences - GER</td>
<td></td>
</tr>
</tbody>
</table>

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

2. 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 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.

ACT-PEP EXAMINATIONS
Credit may be awarded for successful completion of the ACT-PEP (ACT Proficiency Examination Program). Credit for exams is elective credit or, through agreements with departments, is equated to UAA courses. An official copy of the student’s ACT-PEP scores must be submitted to Enrollment Services.
TECH PREP PROGRAM CREDIT

The Tech Prep Program is a partnership between UAA, secondary school districts, Alaska Vocational Technical Center, Job Corps, and other partnership institutions. It is a program that recognizes technical and related academic preparation and, where possible, work-based learning in a specific career field. It partners secondary education, post-secondary education, labor and business in a sequential course of study without duplication of coursework that will lead a student to a certificate, credential, apprenticeship, associate 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.

GENERAL INFORMATION  NON-TRADITIONAL TRANSFER CREDITS

Students requesting non-concurrent credit (up to 2 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 $15 per credit.

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).

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.

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.

There is no limit on the total number of UAA credits a student may receive through the non-traditional transfer credit process.

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.

COURSE PLACEMENT

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

For English and Math course placement purposes, ACT, SAT 1 and ASSET 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.

ASSET English and Math placement tests are administered in the UAA Advising and Counseling Center. The “ASSET Student Guide,” which has sample ASSET questions, is on reserve in the Learning Resources Center under the instructor name “Testing.” Refer to “Testing and Assessment” and “Learning Resources Center’ in Chapter 4 of this catalog for more information.

Placement tests for MATH A055 and higher-level Math courses are administered in the Department of Mathematical Sciences.

ASSET placement tests and Math placement tests are also administered at the Eagle River, Elmendorf Air Force Base, and Ft. Richardson Education Centers. Course placement tests are also administered at the community campuses.

ENGLISH COURSE PLACEMENT

English (ENGL) 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 the ASSET English placement test prior to enrolling in any English 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Score</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL A111</td>
<td>22-29</td>
<td>530-619</td>
</tr>
<tr>
<td>ENGL A211*</td>
<td>30+</td>
<td>620+</td>
</tr>
<tr>
<td>ENGL A212*</td>
<td>30+</td>
<td>620+</td>
</tr>
<tr>
<td>ENGL A213*</td>
<td>30+</td>
<td>620+</td>
</tr>
<tr>
<td>ENGL A214*</td>
<td>30+</td>
<td>620+</td>
</tr>
</tbody>
</table>

*If a student has earned 30+ on the ACT English test or 620+ on the SAT 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.
MATH COURSE PLACEMENT

A student who has completed the course prerequisites is eligible to enroll in Math courses. A student who has not completed the course prerequisites but has completed courses with similar content and has earned an appropriate ACT, SAT 1 or ASSET score is eligible to enroll in the following Math courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>ACT</th>
<th>SAT 1</th>
<th>ASSET</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH A055</td>
<td>400-479</td>
<td>43-48</td>
<td></td>
</tr>
<tr>
<td>MATH A105</td>
<td>18-21</td>
<td>480-519</td>
<td>49+*</td>
</tr>
<tr>
<td>MATH A107</td>
<td>22-25</td>
<td>520-589</td>
<td></td>
</tr>
<tr>
<td>MATH A200</td>
<td>26+**</td>
<td>590+**</td>
<td></td>
</tr>
</tbody>
</table>

*Students earning ASSET Math scores of 49 or higher are strongly advised to take the MATH A105 placement test unless they have the course prerequisites for MATH A105.

** Must also take trigonometry or precalculus course

Advanced Placement

MATH A200  Score of 3 on Calculus AB test
MATH A201  Score of 4 or 5 on Calculus AB test or 3 or 4 on Calculus BC test

NATIONAL OCCUPATIONAL COMPETENCY TESTING INSTITUTE (NOCTI) EXAMINATION

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 earns 30 semester credits toward the technical competency requirement of the applicable AAS degree. Completion of the technical competency requirements is prescribed by the applicable CTC department. A fee is charged. Applicants may call (907) 786-6446 for further information.

PREREQUISITES

Students are responsible for checking to make sure that prerequisites have been met. Prerequisites are listed in individual course descriptions in this catalog. If a student has not taken and passed the necessary prerequisites, but feels confident of performing the course work, the student may request permission from the instructor of the course to enroll in the class. An instructor withdrawal may be initiated for those students who enroll without either prerequisites or instructor permission.

RECOMMENDATIONS

Students who have successfully completed the courses listed as recommended in a catalog course description will be better prepared to take the course. However, it is possible for students to successfully complete the course without having taken the recommended courses.

REPEATING COURSES

Some courses may be repeated for additional credits if this option is stated in the course description.

All courses may be repeated for student GPA improvement. Previous courses and grades will remain on the student’s transcript, but only the credits and last grade earned are applied toward graduation requirements and calculated in the student’s cumulative UAA GPA. The Credit/No Credit grading option cannot be selected when courses are to be repeated for GPA improvement. Students may not repeat a course by 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 repeated courses are included in GPA calculations.

TECH PREP PROGRAM

The Tech Prep Program is a partnership between UAA, secondary school districts, Alaska Vocational Technical Center, Job Corps, and other partnership institutions. It is a program that recognizes technical and related academic preparation and, where possible, work-based learning in a specific career field. It partners secondary education, post-secondary education, labor and business in a sequential course of study without duplication of coursework that will lead a student to a certificate, credential, apprenticeship, associate 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.
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.

GRADES

Recommended criteria for acceptance in the UAA Tech Prep Program is a 2.00 or higher GPA at the partnership institution, and a 2.00 or higher cumulative GPA for any courses taken at UAA.

Some UAA courses are graded pass/no pass (P/NP) rather than academic letter grades (A-F). Grades received in the partnership course will be converted to the appropriate grading basis of the UAA course. For performance comparison only, a grade of “P” (Pass) is considered equivalent to a grade of “C” or higher.

The final grade received in the partnership course, taken through the Tech Prep Program, will be posted on the student’s UAA transcript as the final grade in the concurrently registered course.

Academic letter grades (A-F) will be included in the student’s UAA grade point average computation (GPA).

ARTICULATION OF COURSES

Articulation is governed by the following guidelines: Tech Prep courses are those specifically identified and approved through the articulation process to be in alignment with UAA courses. However, some partnership courses may be articulated to UAA lower division elective credit.

There must be a clearly defined articulation agreement for each articulated course, based on a set of competencies that will be determined by relevant UAA and partnership faculty. Although teaching and testing methods may differ, each course will be subject to the instructional objectives and outcomes of comparable, traditionally taught courses.

Each articulation agreement is unique and will be subject to reconsideration or change each academic year. A comprehensive review will be conducted each year or at the request of either party, to be sure industry and performance standards are being met and that any curriculum changes are incorporated into the articulation agreement.

Some UAA departments may require students to meet specific standards such as an entrance GPA, course prerequisites, a particular final grade, or completion of a qualification test. Other criteria such as an interview, or a letter of recommendation may be required. Specific standards and/or criteria will be reflected in the course articulation agreement.

Tech Prep is designed to recognize quality technical training. Both UAA and the partnership institution will continuously maintain high course standards.

Where possible, partnership courses articulated through the Tech Prep Program will be equated to specific UAA lower division courses (100 or 200 level). However, some courses may be articulated to UAA lower division elective credit.

The Partnership Institution must provide current course syllabi and course content guides that clearly identify what objectives the instructor intends to accomplish in the course, what the student should know and/or be able to do as a result of completing the course, and what evaluation methods are appropriate for determining how well the goals and outcomes have been met.

NOTE: Not all UAA courses are available for articulation through the Tech Prep Program.

REGISTRATION

Registration is governed by the following guidelines: students will not be officially registered in the Tech Prep Program or at UAA until all forms are received and fees paid. Students are held academically and financially responsible for their UAA registration. A non-refundable administrative fee of $15 per credit will be charged. The University reserves the right to cancel courses or change its fees at any time.

If, after registering at UAA, a student changes plans or is unable to complete the partnership course, the student must officially withdraw from the concurrent UAA course(s) prior to the end of the course. A student who does not complete the partnership course and does not withdraw from the concurrent UAA course will receive a final grade of “F” or “NP,” depending on the grading basis of the UAA course.
Students registered through the Tech Prep program, in one (1) or more UAA credit may elect to pay the non-refundable Student Activities Fee for access to available activities and facilities. Students registered in six (6) or more UAA credits may elect to pay the non-refundable Student Health Center Fee for access to campus health services and programs.

Students under the age of 18 must complete an Under-Age Student Enrollment Form and obtain the signature of the student’s parent or guardian, school principal and/or counselor, and instructor of the partnership course(s).

Students must provide the partnership institution and UAA with a signed Authorization to Discuss/Release Educational Information form in order for them to discuss/release information and supply official transcripts reflecting the Tech Prep registration and course completion.

Students need to be aware of and comply with both the partnership institution and UAA academic policies, regulations, procedures and deadlines associated with the Tech Prep Program as well as those reflected in the current UAA catalog (www.uaa.alaska.edu), pertaining to open enrollment, formal admission, registration, academic action and certificate or degree completion.

NOTE: Registration in the Tech Prep Program does not guarantee subsequent formal admission to a UAA certificate or degree program.

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; 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 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.

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 is on the web site:

CHAPTER 9

UNDERGRADUATE ADMISSION AND DEGREE PROGRAMS

Formal Admission to Undergraduate Programs
General University Requirements for Undergraduate Programs
General Education Requirements (GER) for Baccalaureate Degrees
Undergraduate Programs by Schools and Colleges
**UNDERGRADUATE ADMISSION AND DEGREE PROGRAMS**

**FORMAL ADMISSION TO UNDERGRADUATE PROGRAMS**

Students who wish to earn vocational certificates, associate degrees, or baccalaureate degrees must apply and be formally admitted to the individual programs. Students may apply for initial admission as undeclared majors. However, they must still be formally accepted by their specific major department before completing any degree or certificate program. To be eligible for graduation, a student must be formally admitted a minimum of one semester prior to applying for graduation.

**FRESHMEN**

First-time degree-seeking freshmen and those degree-seeking applicants with fewer than 30 college-level semester credits must submit official high school transcripts (or GED scores) and official copies of ACT, SAT or ASSET test scores along with the application for admission. Freshmen applying to associate or certificate programs are encouraged to take the ASSET placement test. In addition, freshmen who have earned credits at other regionally accredited colleges and universities must submit official transcripts from all institutions previously attended. Students may be required to take additional placement tests to register for specific courses.

**SOPHOMORES, JUNIORS, AND SENIORS**

Applicants with 30 or more college-level semester credits must submit official transcripts from all regionally accredited colleges and universities previously attended.

**TRANSFER STUDENTS**

At the time of formal admission to degree-seeking status, transfer students must declare and submit official transcripts from all colleges and universities previously attended. Transcripts are evaluated to determine if the credits are applicable to a degree program at UAA. Only transcripts from regionally accredited institutions declared at the time of application for admission are considered for transfer evaluation.

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 Undergraduate General University Requirements but not the General Education Requirements.
3. Complete all school/college requirements, if applicable and the Major Program Requirements.

**INTERNATIONAL STUDENTS**

Students who wish to transfer college-level course work from international institutions must submit official transcripts and English translations (if necessary) as well as an official statement of educational equivalency from a recommended international credentials evaluation service. Lists of such services may be obtained from Enrollment Services. Fees depend upon the type and complexity of the evaluation.

International students (F-1) who wish to apply for the United States Department of Justice, Immigration, and Naturalization Services Certificate of Eligibility for Non-Immigrant Students (Form I-20A) must do all of the following:

1. Meet University admission requirements for degree-seeking students and be accepted to a program.
2. Submit an official TOEFL (Test of English as a Foreign Language) score of at least 450.
3. Submit a statement of financial support for the anticipated period of study.
4. Provide official transcripts and a statement of educational equivalency from a recommended credentials evaluation service.

To be issued an I-20A, international students must be formally admitted, full-time, degree-seeking students, even if their major is undeclared. Contact the International Student Advisor in Enrollment Services for details.

These requirements apply only to students who are requesting a Form I-20A Student Visa. Other international students may enroll under the Open Enrollment or Formal Admission policy.

Health insurance is mandatory for international students on student visas.

**RETURNING STUDENTS**

As an admitted, degree seeking student who has had a break in attendance at UAA but has not attended another institution (outside of the UA system) and are still within the catalog year limitations of your admittance (seven years-baccalaureate, five years associate/certificate) you may update your admission status. An Update of Admission Status form is available at Enrollment Services. Your admission will be brought forward to the current semester, but your previous catalog year will remain the same. Departments reserve the right to refuse a student readmittance into their programs.

As an admitted, degree seeking student who never attended UAA during or following the semester of admittance and did not attend another institution (outside the UA system) and are still within the catalog year limitations of your admittance, you may update your admission status. An Update of Admission Status form is available at Enrollment Services. You must complete and return this form to Enrollment Services for processing. You will be re-admitted to the current catalog year. Departments reserve the right to refuse a student readmittance into their programs.

An admitted degree-seeking student who attends another institution (outside of the UA system) following the semester of admission is not eligible for an update of admission status 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 occurred during summer semester.
- Enrollment was correspondence courses.
- Student participated in a National or International Student Exchange.
- Student is participating in the SOCNAV/SOCAD military programs.
- Outside institution was unaccredited at time of attendance.
- Outside institution was Community College of the Air Force or Regents College.
EXCEPTIONS FOR ASSOCIATE DEGREE AND CERTIFICATE SEEKING STUDENTS

Returning adult students who have been out of high school for 10 years or more may elect not to submit high school transcripts if they wish to attend as associate or certificate seeking students; however, they must complete the Ability to Benefit process through the Advising and Counseling Center.

After successful completion of 30 semester credits, students may apply, at no additional charge, for a change of admission status from the associate or certificate level to the baccalaureate level. Students will be subject to the baccalaureate degree admission requirements, as well as specific program admission requirements.

TRANSCRIPTS AND TEST SCORES

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

All transcripts, test scores, and other supporting documents submitted for admission or transfer credit evaluation become the property of the University. They cannot be reissued or copied.

PRE-MAJOR STATUS

Students applying to certain programs that have limited space and/or highly selective admission criteria may be initially admitted to a pre-major status within that program. Admission to pre-major status does not guarantee subsequent admission to the major. Students admitted to this status should contact their program advisor at the earliest opportunity for further information about the program’s special requirements and for guidance in selecting appropriate classes. Students admitted initially to pre-major status must first satisfy all requirements for formal admission to the major and then complete the “Change of Major” process, changing from pre-major to the program itself. Such changes will not effect a student’s degree requirements or catalog year. Students still must satisfy the degree requirements in effect at the time of original admission to pre-major status, unless they change major and degree intentions completely.

DECLARING AND CHANGING MAJORS AND DEGREE PROGRMS

Once formally admitted and in attendance, students may request to change their major or degree program to another program at the same level (i.e. associate to associate, baccalaureate to baccalaureate) through the Change of Major/Degree process. Students admitted initially in undeclared or pre-major status may declare a major or degree program through this process as well. Students must meet the specific admission requirements of their new program, and must be formally accepted to the program by signature of the Dean or Department Chair.

Students wishing to change from an associate program to a baccalaureate program (or vice versa) must formally apply for admission to the new level.

Students must follow established UAA procedures for declaring a major and, if necessary, 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.

CERTIFICATE AND ASSOCIATE DEGREE PROGRAMS ADMISSION REQUIREMENTS

Most certificate and associate degree programs operate under an open admission policy. To qualify for admission to associate degree or vocational certificate-seeking status, a student must:

1. Have earned a high school diploma or the equivalent (GED), or 2. Be 18 years of age or older and have participated in UAA’s Assessment and Advisement process as explained in Chapter 2.

APPLICATION FORM AND FEE

Applications may be obtained from Enrollment Services. A non-refundable application fee of $35 must be submitted with each application. Some certificate and associate programs have additional requirements. Consult the individual program sections of this catalog.

ADMISSION ON PROBATION TO ASSOCIATE DEGREE-SEEKING STATUS

Some associate degree programs, such as Auto Diesel Technology, Aviation Maintenance Technology, Dental Assisting, Dental Hygiene, Medical Assisting, Medical Laboratory Technology, Nursing, and Geomatics, have admission requirements beyond the open admission requirements. Students applying to these programs may initially be admitted to pre-major status or they may be admitted on probation by the department. Pre-major status does not guarantee subsequent admission to the major. Students admitted on probation may be dismissed from the program if they do not perform satisfactorily. Consult the degree program sections of this catalog for more information.

BACCALAUREATE DEGREE PROGRAMS ADMISSION REQUIREMENTS

To qualify for initial admission to baccalaureate degree-seeking status, a student who is 18 years of age or older, must satisfy at least one of the following:

1. Graduation from an accredited high school with a grade point average of at least 2.50 (C+), and completion of either the SAT, ACT or ASSET test, or 2. Successful completion of the GED and completion of either the SAT, ACT or ASSET test, or 3. Graduation with an associate degree from a regionally accredited institution, or 4. Completion of at least 30 college-level semester credits with a grade point average of at least 2.00 (C).

These criteria do not apply to students who have been removed from baccalaureate degree-seeking status at UAA. (See Reinstatement, Chapter 8).
Some baccalaureate programs have additional or higher requirements than the minimums listed above. Consult the undergraduate programs for more specific information. Applicants who do not meet the higher requirements may initially be admitted in an undeclared or pre-major status provided they meet the minimum requirements for admission to the baccalaureate level. Admission to undeclared or pre-major status does not guarantee subsequent admission to a specific degree program. Such students are encouraged to contact their program advisor at the earliest opportunity for further information and guidance.

**ADMISSION ON PROBATION TO BACCALAUREATE DEGREE-SEEKING STATUS**

In exceptional circumstances, students may be admitted to baccalaureate degree-seeking status on probation. Generally, students in the following categories may be admitted on probation:

1. High school graduates with a high school GPA of 2.00 through 2.49, or
2. Transfer students with a collegiate GPA of 1.75 through 1.99.

In most cases, students on probation are admitted as undeclared majors only. Before they may declare a major through the Change of Major process, they must meet the individual program’s admissions requirements.

**GENERAL UNIVERSITY REQUIREMENTS FOR UNDERGRADUATE 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 also 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 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 transcripted 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 5 years of formal acceptance into the program, that program will expire and the student must reapply for admission and meet the requirements in effect at the time of formal acceptance.
6. Students may earn more than one 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 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 catalog are not met within 5 years of formal acceptance into the program, that program will expire and the student must reapply for admission and meet the 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.

**CONCURRENT PROGRAMS OF STUDY**

**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
   ENGL A111, Methods of Written Communication
   and one of the following:
   CIOS A262 Written Business Communications
   ENGL A211 Academic Writing About Literature
   ENGL A212 Technical Writing
   ENGL A213 Writing in the Social and Natural Sciences
   ENGL A214 Persuasive Writing
   *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.
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.
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 and Networking Technology
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
Applied Studies (continued)
- 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 Operations
- Marine Technology
- Mechanical Technology
- Medical Assisting
- Medical Laboratory Technology
- Nursing
- Nursing-Practical Nursing
- Nursing Science
- Occupational Safety and Health
- Paralegal Studies
- Paramedical Technology
- Petroleum Technology
- Physical Education
- Process 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
- Preparatory English
- Russian
- Spanish
- Theatre
- Women’s Studies*

Math 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 excluded)
- 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 Science
- Paralegal Studies (PARL A101 only)
- Political Science
- Psychology
- Social Work (SWK A106 only)
- 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.

GENERAL UNIVERSITY 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 are as follows:

1. Students must earn at least 120 credits at the 100 level or 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 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 7 years of formal acceptance into the program, that program will expire and the student must reapply for admission and meet the requirements in effect at the time of formal acceptance.
7. Students must follow established UAA procedures for declaring a major and, if necessary, 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.

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 6 of which must be upper-division. Students must earn at least 3 credits in residence in each minor field. They must also earn a UAA cumulative GPA of at least 2.00 (C) in the minor. Students must follow minor requirements from the same catalog used for the baccalaureate program.

Refer to each discipline for specific requirements.

Students must declare minors no later than the deadline to submit an Application for Graduation.

CONCURRENT PROGRAMS OF STUDY

Double Majors. Baccalaureate 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 Bachelor of Arts degree program (such as History and Justice). Students must apply for 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 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 or 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).
5. The dean(s) review(s) the proposal, committee membership, and recommendation for degree program director. If the dean(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).
7. The student works with the advisory committee and Enrollment Services to insure that all degree requirements are met.

GENERAL EDUCATION REQUIREMENTS (GER) FOR BACCALAUREATE DEGREES

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 can not be petitioned to meet a GER.

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 informing responsible citizenship.

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.

**Classification Credits**

1. **Oral Communication Skills** ......................................................3
   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. Courses completed at UAA must be selected from the following:
   - COMM A111 Fundamentals of Oral Communication
   - COMM A235 Small Group Communication
   - COMM A237 Interpersonal Communication
   - COMM A241 Public Speaking

2. **Written Communication Skills** .............................................6
   Courses that fulfill this requirement are those which emphasize the acquisition of English language skills in writing. Courses completed at UAA must be selected from the following:
   - ENGL A111 Methods of Written Communication
   - ENGL A211 Academic Writing About Literature
   - ENGL A212 Technical Writing
   - ENGL A213 Writing in the Social and Natural Sciences
   - ENGL A214 Persuasive Writing
   - ENGL A311 Advanced Composition
   - ENGL A312 Advanced Technical Writing
   - ENGL A414 Research Writing

3. **Quantitative Skills** .................................................................3
   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. Courses completed at UAA must be selected from the following:
   - AS A252 Elementary Statistics
   - AS A307 Probability and Statistics
   - MATH A107 College Algebra
   - MATH A108 Trigonometry
   - MATH A109 Precalculus
   - MATH A200 Calculus I
   - MATH A201 Calculus II
   - MATH A270 Applied Finite Mathematics for the Managerial Sciences
   - MATH A272 Calculus for Managerial Sciences

4. **Humanities (outside the major)** .............................................6
   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. (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). Courses completed at UAA must be selected from the following:
   - AKNS A101 Alaska Native Languages I
   - AKNS A102 Alaska Native Languages II
   - AKNS A201 Native Perspectives
   - ART A261 History of World Art I
   - ART A262 History of World Art II
   - ART A367 History of Photography
   - ASL A101 Elementary American Sign Language I
   - ASL A102 Elementary American Sign Language II
   - ASL A201 Intermediate American Sign Language I
   - ASL A202 Intermediate American Sign Language II
   - CHIN A101 Elementary Chinese I
   - CHIN A102 Elementary Chinese II
   - ENGL A121 Introduction to Literature
   - ENGL A201 Masterpieces of World Literature I
   - ENGL A202 Masterpieces of World Literature II
   - ENGL A301 Literature of Britain I
   - ENGL A302 Literature of Britain II
   - ENGL A305 Topics in National Literatures
   - ENGL A306 Literature of the United States I
   - ENGL A307 Literature of the United States II
   - ENGL A310 Ancient Literature
   - ENGL A363 Film Interpretation
   - ENGL A445 Alaska Native Literatures
   - FREN A101 Elementary French I
   - FREN A102 Elementary French II
   - FREN A201 Intermediate French I
   - FREN A202 Intermediate French II
   - GER A101 Elementary German I
   - GER A102 Elementary German II
   - GER A201 Intermediate German I
   - GER A202 Intermediate German II
   - HIST A101 Western Civilization I
   - HIST A102 Western Civilization II
   - HIST A121 East Asian Civilization I
   - HIST A122 East Asian Civilization II
   - 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
   - ITAL A101 Elementary Italian I
   - ITAL A102 Elementary Italian II
   - JPC A215 History of Mass Communication
   - JPC A367 History of Photography
   - JPN A101 Elementary Japanese I
   - JPN A102 Elementary Japanese II
   - JPN A201 Intermediate Japanese I
   - JPN A202 Intermediate Japanese II
   - KOR A101 Elementary Korean I
   - KOR A102 Elementary Korean II
   - LAT A101 Elementary Latin I
   - LAT A102 Elementary Latin II
   - LING A101 The Nature of Language
   - MUS A221 History of Music I
   - MUS A222 History of Music II
   - PHIL A101 Introduction to Logic
   - PHIL A201 Introduction to Philosophy
   - PHIL A211 History of Philosophy I
   - PHIL A212 History of Philosophy II
   - PHIL A301 Ethics
   - PHIL A313B Eastern Philosophy and Religion
   - PHIL A314 Western Religion
   - PS A331 Political Philosophy
   - PS A332 History of Political Philosophy I: Classical
   - PS A333 History of Political Philosophy II: Modern
   - RUSS A101 Elementary Russian I
   - RUSS A102 Elementary Russian II
   - RUSS A201 Intermediate Russian I
   - RUSS A202 Intermediate Russian II
   - SPAN A101 Elementary Spanish I
   - SPAN A102 Elementary Spanish II
   - SPAN A201 Intermediate Spanish I
   - SPAN A202 Intermediate Spanish II
   - THR A311 Representative Plays I
   - THR A312 Representative Plays II
   - THR A411 History of the Theatre I
   - THR A412 History of the Theatre II
   - WS A200 Introduction to Women’s Studies
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.

*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
- ART A367 History of Photography
- DNCE A170 Dance Appreciation
- JPC A367 History of Photography
- MUS A121 Music Appreciation*
- MUS A221 History of Music I*
- MUS A222 History of Music II*
- THR A111 Introduction to the Theatre
- THR A311 Representative Plays I
- THR A312 Representative Plays II
- THR A411 History of the Theatre I
- THR A412 History of the Theatre II

6. Social Sciences (outside the major; from 2 different disciplines)........................................6

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. (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:

- ANTH A101 Introduction to Anthropology
- ANTH A200 Natives of Alaska
- ANTH A202 Cultural Anthropology
- ANTH A250 The Rise of Civilization
- BA A151 Introduction to Business
- ECON A201 Principles of Macroeconomics
- ECON A202 Principles of Microeconomics
- ENVI A201 Earth as an Ecosystem: Introduction to Environmental Studies
- GEOG A101 Introduction to Geography
- HIST A101 Western Civilization I
- HIST A102 Western Civilization II
- HIST A121 East Asian Civilization I
- HIST A122 East Asian Civilization II
- HIST A131 History of the United States I
- HIST A132 History of the United States II
- HIST A341 History of Alaska
- HS A220 Core Concepts in the Health Sciences
- HUMS A106 Introduction to Social Welfare
- INTL A301 Canada: Introductory Survey
- JPC A101 Introduction to Mass Communication
- JUST A110 Introduction to Justice
- JUST A330 Justice and Society
- PARL A101 Introduction to Law
- PS A101 Introduction to American Government
- PS A302 Introduction to Political Science
- PS A311 Comparative Politics
- PS A351 Political Sociology
- PSY A111 General Psychology
- PSY A150 Life Span Development
- SOC A101 Introduction to Sociology
- SOC A201 Social Problems and Solutions
- SOC A202 The Social Organization of Society
- SOC A222 Small and Rural Communities
- SOC A342 Sexual, Marital and Family Lifestyles
- SOC A351 Political Sociology
- SWK A106 Introduction to Social Welfare
- SWK A243 Cultural Diversity and Community Services
- WS A200 Introduction to Women’s Studies

7. Natural Sciences (must include a laboratory course)........................................7

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.

Courses completed at UAA must be selected from the following:

- ASTR A103 Introductory Astronomy I
- ASTR A104 Introductory Astronomy II
- BIOL A102 Introductory Biology
- BIOL A103 Introductory Biology Laboratory
- BIOL A115 Fundamentals of Biology I
- BIOL A116 Fundamentals of Biology II
- BIOL A111 Human Anatomy and Physiology I
- BIOL A112 Human Anatomy and Physiology II
- CHEM A103/L Survey of Chemistry
- CHEM A104/L Introduction to Organic Chemistry and Biochemistry
- CHEM A105/L General Chemistry I
- CHEM A106/L General Chemistry II
- ENVI A202 Earth as an Ecosystem: Introduction to Environmental Science
- GEOG A205/L Elements of Physical Geography
- GEOL A111 Physical Geology
- GEOL A112 Historical Geology
- GEOL A115/L Environmental Geology
- LSIS A101 Discoveries in Science
- LSIS A102 Earth-Solar Systems-Life
- LSIS A201 Life on Earth
- LSIS A202 Concepts and Processes: Natural Sciences
- PHYS A101 Concepts of Physics
- PHYS A123/L Basic Physics I
- PHYS A124/L Basic Physics II
- PHYS A211/L General Physics I
- PHYS A212/L General Physics II
UNIVERSITY HONORS PROGRAM

www.uaa.alaska.edu/honors/ayhonor@uaa.alaska.edu

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 ancillary 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 University Honors core 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:

   Core Honors Requirements:
   - HNRS A110 Community and Cultural Awareness 1
   - HNRS A192 Honors Seminar: Enduring Books 3
   - HNRS A292 Honors Seminar: Modern American Culture 3
   - HNRS A310 Community Service 2

   Total core honors credits required: 9

   Upper-division Honors Requirements:
   - HNRS A392 Honors Thesis Seminar 1
   - and one of the following options:
     - A. HNRS A490 Senior Honors Seminar 6*
     - 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).
     - 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).
     - 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

*Credit over two semesters

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

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
   (ANTH A250)
2. Western Culture
   (HIST A101 and HIST A102)
3. American Culture
   (HIST A131, HIST A132, PS A101)

B. Arts and Letters

1. Introduction to Literature
   (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:

*BA Music majors must select courses outside their major.

C. Ways of Knowing

1. (ENGL A120, PHIL A101, PHIL A201, PHIL A301, PHIL A421)

D. Social Behavior

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) 3-4
   (AS A253 or AS A307) 3-4

B. Computer Programming
   (CS A105, CS A107, CS A109, CS A201, CS A202, ES A201) 3

C. Language/Humanities 6-8
   Any 2 semester sequence in French, German, Japanese, Russian, or Spanish or one of the following humanities sequences:
   (ART A261-A262, ENGL A201-A203, MUS A221-A222
   PHIL A211-A212, PHIL A313B-A314, PS A332-A333
   THR A311-A312, THR A411-A412)

D. Natural Sciences 9*
   To be selected from the following list:
   (ASTR A103, A104
   BIOL A102, A103, A115, A116, A111, A112, A113, A114
   CHEM A103/L, A104/L, A105/L, A106/L
   GEOL A111, A112
   PHYS A123/L, A124/L, A211/L, A212/L)
   *Must be in addition to the 7 credit Natural Sciences General Education Requirement. The total Natural Sciences Requirement (16 credits) must include at least 6 credits in each of 2 disciplines and 2 lab credits.

BACHELOR OF MUSIC, PERFORMANCE

A. 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.

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 Certificate and Associate Degree Programs Admission Requirements located at the beginning of this chapter.

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
   CIOS A262 Written 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
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
Choose at least 6 credits from the Social Sciences Baccalaureate General Education Requirements List.

7. Electives
Total Minimum Credits 15

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

ALASKA NATIVE STUDIES
College of Arts & Sciences (CAS), Room 378, (907) 786-6135

The Alaska Native Studies program seeks to provide the student with: an introduction to Alaskan Native ways of knowing and seeing the world, an experiential and theoretical exploration of Alaskan Native cultures, a series of critical perspectives on traditional and contemporary Native experience and politics in a pluralistic society. The Alaska Native Studies minor is highly recommended for Native and non-Native students and professionals who work with the rural and urban Alaska Native community.

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)
      - AKNS A109 Alaska Native Language Orthography (4)
      - AKNS/PS A110 Parliamentary Procedures (1)
      - 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)

3. Complete a minimum of 6 credits from the following:
   - AKNS A101 Alaska Native Languages I (4)
   - AKNS A102 Alaska Native Languages II (4)
   - AKNS A109 Alaska Native Language Orthography (4)
   - AKNS/PS A110 Parliamentary Procedures (1)
   - 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 19-21 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, Assistant Professor, AFEPB@uaa.alaska.edu
ANTHROPOLOGY
Beatrice McDonald Building (BMB), 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 Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences requirements 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):
   - 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)
5. Complete two courses from the following topical/theoretical courses (6 credits):
   - 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/AJUST 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): Any course in Anthropology, except for ANTH A250, may be applied toward the elective requirement.
7. Complete one statistics course from the following:
   - 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):
   - 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 3 credits:
   - ANTH A410 History of Anthropology (3)
4. Complete three ethnographic area courses from the following (9 credits):
   - 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 and Haida Adaptations (3)
   - ANTH A439 Athapaskan Adaptations (3)
5. Complete two courses from the following topical/theoretical courses (6 credits):
   - 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 A423 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):
   - Any course in Anthropology, except ANTH A250, may be applied toward the elective requirement.
7. Complete the following statistics course:
   - AS A307 Probability and Statistics (3)
   - 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 (6 credits) from the following:
   - 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 (3 credits) from either the ethnographic area or the topical/theoretical area, as specified above for majors in Anthropology.
3. Complete three courses (9 credits) of anthropology electives.

FACULTY

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APPLIED STATISTICS

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. A total of 23 credits is required for the minor.

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 A310 Regression Analysis (3)
   - AS A312 Analysis of Variance (3)
   - AS A315 Nonparametric Statistics (3)
   - AS A400 Selected Topics in Statistics (3) (maximum 3 credits)
   - AS A402 Scientific Sampling (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)

FACULTY

Cora Neal, Assistant Professor
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ART

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:

- B.A. 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 School of Education concerning university programs leading to art teacher certification.

GRAPHIC DESIGN - 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 - 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 Baccalaureate Degree Program Admission Requirements at the beginning of this chapter.

**GRADUATION REQUIREMENTS**
Students must complete the following graduation requirements:

**A. GENERAL UNIVERSITY REQUIREMENTS**
Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter. 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):**
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 (21 CREDITS):**
3. 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
   - Illustration
   - Printmaking
   - Sculpture
   - Fibers

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

4. Complete 6 credits in upper-division Art History courses. 6

**MISCELLANEOUS REQUIREMENTS (21 CREDITS):**
5. Complete the following:
   - PHIL A401  Aesthetics 3
   - Upper-division General Electives 18
6. A total of 120 credits are required for the degree, of which 42 credits must be upper-division.

**RECOMMENDED COURSE SEQUENCE**

**BA in Art**

**First Year**
- Fall Semester (15 credits)
  - ART A105  Beginning Drawing 3
  - ART A111*** 3
  - ENGL A111* 3
  - General Education Requirement 3
  - Elective 3
- Spring Semester (15 credits)
  - ART A113*** 3
  - ENGL A211* 3
  - General Education Requirement 3
  - Elective 3

**Second Year**
- Fall Semester (16 credits)
  - ART A205  Intermediate Drawing 3
  - ART Beginning 2-D or 3-D Studio 3
  - ART A261* 3
  - General Education Requirement** 3
  - Elective 3
- Spring Semester (15 credits)
  - ART Beginning 2-D or 3-D Studio 3
  - ART Beginning 2-D or 3-D Studio 3
  - ART A262* 3
  - General Education Requirement 3
  - Elective 3

**Third Year**
- Fall Semester (15 credits)
  - ART Primary Emphasis Intermediate Studio 3
  - ART Upper-division Studio Art Elective 3
  - General Education Requirement 3
  - Elective 3
- Spring Semester (15 credits)
  - ART Primary Emphasis Intermediate Studio 3
  - ART Upper-division Studio Art Elective 3
  - General Education Requirement 3
  - Elective 3

**Fourth Year**
- Fall Semester (15 credits)
  - ART Primary Emphasis Advanced Studio 3
  - ART Upper-division Art History 3
  - General Education Requirement 3
  - Elective 3
- Spring Semester (15 credits)
  - ART Upper-division Art History 3
  - General Education Requirement 3
  - Elective 9

* These courses should be taken during indicated semester due to scheduling methods
** Indicates the semester when the 1 credit Natural Science laboratory course might be taken
*** These courses can be alternated
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 Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter. Admission into the BFA program, termination from it, and granting of the degree are done at the discretion of the BFA Committee.

Students admitted into the BFA program must complete a minimum of 24 art credits in residence at UAA after acceptance into the BFA program. For the transfer student, a minimum of 12 resident art credits must be completed in the primary area of studio emphasis, and a minimum of 3 resident art credits completed in the secondary area of studio emphasis.

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

1. Applicants must have been officially admitted into the College of Arts and Sciences.
2. Applicants must have completed all lower-division art requirements for the BFA degree.
3. Applicants must have been enrolled at the University of Alaska Anchorage for at least one semester.
4. 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:

1. Application for admission into the BFA Program.
2. Letter of intent stating objectives and qualifications. Student should indicate an awareness of the differences between the BA in Art and the BFA degree program.
3. Copies of all college transcripts.
4. 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 the 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 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.

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.
   - **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.
4. Complete a total of 9 upper-division credits in a secondary area of studio emphasis from the list below:
   - 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
6. Complete 15 credits in Studio Art courses, any 100-level or above
7. Prepare and present a Thesis Project (ART A499)
8. Complete PHIL A401 Aesthetics
9. A total of 121 credits is required for the degree, of which 42 credits must be upper-division.

RECOMMENDED COURSE SEQUENCE
BFA in Art
First Year
- Fall Semester (15 credits)
  - ART A105
  - ART A111
  - ENGL A111
  - General Education Requirement
- Spring Semester (15 credits)
  - ART A205
  - ART A213
  - ENGL A211
  - General Education Requirement

Second Year
- Fall Semester (16 credits)
  - ART Beginning 2D or 3D Studio
  - ART Beginning 2D or 3D Studio
  - ART Beginning 2D or 3D Studio
  - ART A261
  - General Education Requirement
- Spring Semester (15 credits)
  - ART Studio Art Elective
  - ART Studio Art Elective
  - ART Primary Emphasis Intermediate Studio
  - ART A262
  - General Education Requirement

Third Year
- Fall Semester (15 credits)
  - ART Primary Emphasis Intermediate Studio
  - ART Secondary Emphasis Intermediate Studio
  - ART Studio Art Elective
  - ART Upper-division Art History
  - General Education Requirement
- Spring Semester (15 credits)
  - ART Primary Emphasis Intermediate Studio
  - ART Secondary Emphasis Intermediate Studio
  - ART Studio Art Elective
  - ART Upper-division Art History
  - General Education Requirement

Fourth Year
- Fall Semester (15 credits)
  - ART Primary Emphasis Advanced Studio
  - ART Primary Emphasis Support Course
  - ART Secondary Emphasis Advanced Studio
  - ART Studio Art Elective
  - PHIL A401 Aesthetics*
- Spring Semester (15 credits)
  - ART Primary Emphasis Advanced Studio
  - ART Primary Emphasis Support Course
  - ART Upper-division Art History
  - ART A499 Thesis
  - General Education Requirement

* These courses should be taken during indicated semester due to scheduling methods
** Indicates the semester when the 1 credit Natural Science laboratory course might be taken
*** These courses could be alternated (ART A111 and ART A113).
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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Bill Sabo, Assistant Professor
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BIOLOGICAL SCIENCES

www.uaa.alaska.edu/biohome/biology.html
The WWAMI/Biomedical program may be found at www.uaa.alaska.edu/biomed/
Engineering Building (ENGR), Room 333, (907) 786-4770

Biology is the science which is 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 which 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 A124: Biota of Alaska: Selected Topics
- BIOL A126: Birds in Field and Laboratory
- BIOL A150: Introduction to Marine Biology
UNIVERSITY SERVICE COURSES
The department offers several courses specifically designed for students majoring in Nursing, which are accepted for Biology major credit only by petition. A general biology lecture and lab course is also offered every semester for non-biology majors. Only certain 100-level courses currently satisfy General Education Requirements and Natural Sciences Area requirements for specified baccalaureate degree programs in the College of Arts and Sciences (CAS). Refer to both General Education Requirements and specific CAS program degree requirements.

BIOL A100 Human Biology
BIOL A102 Introductory Biology
BIOL A103 Introductory Biology Laboratory
BIOL/GEOL A104 Natural History of Alaska
BIOL A111 Human Anatomy and Physiology I
BIOL A112 Human Anatomy and Physiology II
BIOL A113 Lectures in Human Anatomy and Physiology I (= BIOL A111 lecture without the lab)
BIOL A114 Lectures in Human Anatomy and Physiology II (= BIOL A112 lecture without the lab)
BIOL A240 Introductory Microbiology for Health Sciences
BIOL A241 Lectures in Introductory Microbiology for Health Sciences (= BIOL A240 lecture without the lab)

BACHELOR OF ARTS, BIOLOGICAL SCIENCES

ADMISSION REQUIREMENTS
Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

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 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 leading to two major areas of study. The Cell-Molecular track prepares students for professional careers in areas such as medicine, dentistry and veterinary science. The Organismal-Ecology-Evolution track 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 Baccalaureate Degree Programs Admission Requirements located at the beginning of this chapter.

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 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.
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 A308 Principles of Evolution 3
   - BIOL A310 Animal Physiology 3
   - BIOL A340 General Microbiology 5
   - BIOL A371 Principles of Ecology 4
   - 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:
      - BIOL A310 Animal Physiology (3)
      - or
      - BIOL A352 Human Genetics (3)
      - BIOL A412 Endocrinology (3)
      - BIOL A461 Molecular Biology (3)
      - BIOL/CHEM A471 Immunochemistry (4)
      - BIOL A488 Developmental Biology (4)
   B. Recommended elective courses in Organismal, Ecology and Evolutionary Biology:
      - BIOL A327 Parasitology (4)
      - BIOL A487 Comparative Anatomy of Vertebrates (4)
      - BIOL A403 Microtechnique (4)
      - BIOL A495 Instructional Practicum: Laboratory (1)
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.
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
CANADIAN STUDIES

College of Arts & Sciences Building (CAS), Room 359, (907) 786-4856

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 current 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.

1. 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

2. 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 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)
CHEMISTRY

Engineering Building (ENGR), Room 339, (907) 786-1238

Chemistry is the science which is 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.
BACHELOR OF SCIENCE, CHEMISTRY

ADMISSION REQUIREMENTS
Complete the Baccalaureate Degree Programs Admission Requirements located at the beginning of this chapter.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the baccalaureate general education requirements listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences requirements listed at the beginning of 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.

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

Chemistry Option
Complete the following required courses (72 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM A105 General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A105L General Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM A106 General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A106L General Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM A212 Quantitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM A321 Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM A322 Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM A331 Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A332 Physical Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM A434 Instrumental Methods</td>
<td>4</td>
</tr>
<tr>
<td>CHEM A452 Inorganic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A453 Inorganic Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM A492 Undergraduate Seminar (1)</td>
<td>2</td>
</tr>
<tr>
<td>CHEM A498 Individual Research (3)</td>
<td>6</td>
</tr>
<tr>
<td>MATH A200 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH A201 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH A202 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH A302 Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHYS A211/L General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS A212/L General Physics II</td>
<td>4</td>
</tr>
</tbody>
</table>

Biochemistry Option
Complete the following required courses (73 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM A105 General Chemistry I</td>
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<tr>
<td>CHEM A105L General Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM A106 General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A106L General Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM A212 Quantitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM A311 Physical Chemistry: A Biological Orientation (3)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A321 Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM A322 Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM A434 Instrumental Methods</td>
<td>4</td>
</tr>
<tr>
<td>CHEM A441 Principles of Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A442 Principles of Biochemistry II</td>
<td>3</td>
</tr>
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<td>CHEM A443 Biochemistry Laboratory</td>
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<tr>
<td>CHEM A492 Undergraduate Seminar (1)</td>
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</tr>
<tr>
<td>CHEM A498 Individual Research (3)</td>
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<td>MATH A200 Calculus I</td>
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<tr>
<td>MATH A201 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH A202 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS A123/L Basic Physics I (4)</td>
<td>8</td>
</tr>
<tr>
<td>PHYS A124/L Basic Physics II (4)</td>
<td>8</td>
</tr>
<tr>
<td>or PHYS A211/L General Physics I (4)</td>
<td>8</td>
</tr>
<tr>
<td>or PHYS A212/L General Physics II (4)</td>
<td>8</td>
</tr>
</tbody>
</table>

Upper-division Biology credits | 9       |

2. A total of 120 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM A105 General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A105L General Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM A106 General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A106L General Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM A212 Quantitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM A311 Physical Chemistry: A Biological Orientation (3)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A331 Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A498 Individual Research (3)</td>
<td>6</td>
</tr>
<tr>
<td>MATH A200 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH A201 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH A202 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH A302 Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHYS A211/L General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS A212/L General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>Upper-division Biology credits</td>
<td>9</td>
</tr>
</tbody>
</table>

FACULTY

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Jerzy Maselko, Associate Professor, AFJM1@uaa.alaska.edu
Maurice Riner, Lab Instructional Tech, AFMER@uaa.alaska.edu
Ram Srinivasan, Professor, AFRS2@uaa.alaska.edu
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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM A101</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM A111</td>
<td>Fundamentals of Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM A235</td>
<td>Small Group Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM A237</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM A241</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 9 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM A236</td>
<td>Interviewing</td>
<td>3</td>
</tr>
<tr>
<td>COMM A305</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM A320</td>
<td>Debate and Deliberation</td>
<td>3</td>
</tr>
<tr>
<td>COMM A340</td>
<td>Nonverbal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM A346</td>
<td>Oral Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>COMM A360</td>
<td>Forensics</td>
<td>3</td>
</tr>
<tr>
<td>COMM A380</td>
<td>Theories of Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM A390</td>
<td>Selected Topics in Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM A412</td>
<td>Persuasion</td>
<td>3</td>
</tr>
</tbody>
</table>

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

**FACULTY**

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Doug Parry, Professor, AFDJP@uaa.alaska.edu  
Marcia Stratton, Associate Professor, AFMRS@uaa.alaska.edu  
Shawnalee Whitney, Associate Professor/Chair, AFSAW@uaa.alaska.edu

**COMPUTER SCIENCE**

The Department of Mathematical Sciences offers courses covering the major areas of computer science. These courses constitute the basis for an undergraduate major that prepares students for a variety of professional and technical careers in business, industry, and government or for graduate work leading to advanced degrees. In addition, the department offers courses for students from other fields 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 Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

A. **GENERAL UNIVERSITY REQUIREMENTS**

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

B. **GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. **COLLEGE OF ARTS AND SCIENCES REQUIREMENTS**

Complete the College of Arts and Sciences requirements 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 Structure 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
   - or **CS A495** Internship Project 3

2. Complete these required support courses (12-14 credits):
   - **MATH A200** Calculus I (4) 3-4
   - or **MATH A272** Calculus for Managerial Sciences (3)
   - **MATH A231** Introduction to Discrete Mathematics 3
   - **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)

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 earned in Computer Science courses. 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.

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**BACHELOR OF SCIENCE, COMPUTER SCIENCE**

**ADMISSION REQUIREMENTS**

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

A. **GENERAL UNIVERSITY REQUIREMENTS**

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

B. **GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. **COLLEGE OF ARTS AND SCIENCES REQUIREMENTS**

Complete the College of Arts and Sciences requirements for a BS degree listed at the beginning of the CAS section.

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**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.

3. A total of 24 credits is required for the minor.

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CREATIVE WRITING AND LITERARY ARTS

aycwla@uaa.alaska.edu
www.uaa.alaska.edu/cwla/
College of Arts and Sciences 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.

1. 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)

2. Complete 6 credits from the following: 6
   - CWLA A461 Writing and Gender (3)
   - CWLA A490 The Writer’s Craft (3)

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.

1. Complete 9 credits from the following list of undergraduate writing workshops and magazine production course offerings.
   - Note that at least 6 credits must be upper division: 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)

2. Complete 6 credits from the following: 6
   - CWLA A461 Writing and Gender (3)
   - CWLA A490 The Writer’s Craft (3)

3. Complete the following required project: 3
   - CWLA A499 Thesis (3)

4. A total of 18 credits is required for the minor.

FACULTY

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Sherry Simpson, Chair/Professor, AFSS3@uaa.alaska.edu
Linda McCarriston, Professor, AFLJM@uaa.alaska.edu

ENGLISH

www.engl.uaa.alaska.edu/english/
Classroom Building K (K), 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 study 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. 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 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:

1. Meet the requirements for “Graduation with Honors” as listed in chapter 8 of this catalog.
2. Maintain a grade-point average of 3.5 in all courses in the English major.
3. Complete 6 credits of the following 400-level topics courses with a grade of A:
   - ENGL A403 Topics in Autobiography (3)
   - ENGL A404 Topics in Women’s Literature (3)
   - ENGL A429 Major Authors (3)
   - ENGL A440 Topics in 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)
4. 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: Reading Research Writing.

BACHELOR OF ARTS, ENGLISH

ADMISSION REQUIREMENTS
Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS
Students working toward a degree in English may choose from two options: Literature or Rhetoric.

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

   Complete upper-division English electives 6

   Rhetoric and Language Option (25 credits)
   Complete 6 credits from Nature of Language:
   - LING A101 The Nature of Language (3)
   - LING A201 Understanding Grammar (3)

   Complete 6 credits from Advanced Composition:
   - 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:
   - ENGL A434 History of Rhetoric (3)

   Complete 3-4 credits from Applied Linguistics:
   - ENGL A450 Linguistics and Language Teaching (4)
   - ENGL A452 English Grammar and Language Teaching (4)
   - ENGL A487 Standard Written English (3)

   Complete 3 credits from Rhetoric and Language Theory:
   - 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:
   - ENGL A495 Internship in Professional Writing (1-3)

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

MINOR, ENGLISH
Students majoring in another subject who wish to minor in English must complete the following requirements. 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
- ENGL A212 Technical Writing (3)
- ENGL A213 Writing in the Social and Natural Sciences (3)
- ENGL A311 Advanced Exposition 3
- ENGL A312 Advanced Technical Writing 3
- ENGL A414 Research Writing 3
- ENGL A495 Internship in Professional Writing (1-3) (Recommended)
ENVIRONMENTAL STUDIES

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.

1. 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

2. 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.
   - BIOL A409 Biogeography (3)
   - BIOL A331 Systematic Botany (4)
   - BIOL A375 Terrestrial Ecosystems (3)
   - 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 Remote Sensing and GIS 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.
3. 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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**AFFILIATED FACULTY**

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LeeAnn Munk, Assistant Professor Geology, AFLM@uaa.alaska.edu

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**GEOLOGY**

*Beatrice McDonald Building (BMB), Room 214, (907) 786-6840*

Geology is the study of the earth, its composition, and the dynamic systems operating on it. It encompasses the past five billion years of solar system history including fossil life forms and their environments. Exciting new discoveries and revolutionary advances have led to an understanding of plate tectonics, natural resource origin and distribution, and planetary geology. Knowledge of geologic phenomena is essential to deal effectively with issues regarding the environment, natural hazards, changing climate, development of resources and even the survival of life on the planet.

**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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>GEOL A111</td>
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<tr>
<td>GEOL A112</td>
<td>4</td>
</tr>
<tr>
<td>Upper-division Geology electives</td>
<td>8</td>
</tr>
<tr>
<td>Other Geology electives</td>
<td>2-4</td>
</tr>
</tbody>
</table>

**FACULTY**

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Terry Naumann, Assistant Professor, AFTRN@uaa.alaska.edu
Anne Pasch, Emeritus Professor, AHADP@uaa.alaska.edu
HISTORY

History as a subject in its broadest sense is all that human beings have thought and done. Knowledge of history is the principal means by which humans discover and preserve their collective identity, for through such knowledge, we gain a clear view of our limitations, and a glimpse of our potential.

History as an intellectual discipline examines and interprets the documentary records of human activity, records that are often fragmentary and incomplete. As a discipline, history is both a science and an art; it requires an intricate balance of scientific technique and creative imagination to weave fragments of evidence into an intelligent account of human experience.

BACHELOR OF ARTS, HISTORY

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

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

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS

1. Complete the following courses (36 credits):

<table>
<thead>
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<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
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<tr>
<td>HIST A101</td>
<td>Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIST A102</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST A131</td>
<td>History of United States I</td>
<td>3</td>
</tr>
<tr>
<td>HIST A132</td>
<td>History of United States II</td>
<td>3</td>
</tr>
<tr>
<td>HIST A477</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper-division History electives* 15
History electives, any level 6

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

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

MINOR, HISTORY

A total of 18 credits is required for the minor, 9 of which must be upper-division.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST A101</td>
<td>Western Civilization I</td>
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<td>HIST A102</td>
<td>Western Civilization II</td>
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<tr>
<td>or</td>
<td>HIST A131</td>
<td>History of United States I</td>
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<tr>
<td>and</td>
<td>HIST A132</td>
<td>History of United States II</td>
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<tr>
<td>Upper-division History electives*</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>History elective, any level</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

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

FACULTY

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INTERNATIONAL NORTH PACIFIC STUDIES

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 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 Koreas, 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:

1. Complete the following required core courses (9 credits):
   - INTL A305 Canadian Far West 3
   - INTL A335 North East Asian Pacific Region 3
   - INTL A355 Russian Far East 3

2. Complete 8 credits of approved courses in Chinese, Japanese, Korean or Russian 8

3. Complete the North Pacific Studies seminar
   - INTL A492 North Pacific Studies Seminar 3

4. A total of 20 credits is required for the minor.

Sequence of courses:

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.

Fall
- INTL A355 Russian Far East

Spring
- INTL A335 North East Asia Pacific Region

Fall
- INTL A305 Canadian Far West

Spring
- INTL A492 North Pacific Studies Seminar
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 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.

2. Complete all six of the following JPC core courses (18 credits):
   JPC A101 Introduction to Mass Communication 3
   JPC A212 Writing (REQUIRED) (3)
   JPC A215 History of Mass Communication (3)
   JPC A300 Photojournalism (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 A325 Writing for Film and Television (3)
   JPC A340 Web Design (3)
   JPC A341 Broadcast Journalism Production (3)
   JPC A345 Communication Research (3)

3. Complete one of the following six options:

   Journalism - Option I (18 credits)
   Complete 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/ART A413 Communications Law 3
   JPC A435 Communication Research 3

   Public Relations and Advertising - Option II (18 credits)
   Complete 18 credits:
   JPC A212 Writing (REQUIRED) (3)
   JPC A215 History of Mass Communication (3)
   JPC/ART A224 Beginning Photography (3)
   JPC A300 Photojournalism (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 A325 Writing for Film and Television (3)
   JPC A340 Web Design (3)
   JPC A341 Broadcast Journalism Production (3)
   JPC A345 Communication Research (3)

   Graphic Design Option IV (54 credits)
   Complete 18 credits:
   JPC A212 Writing (REQUIRED) (3)
   JPC A215 History of Mass Communication (3)
   JPC/ART A224 Beginning Photography (3)
   JPC A300 Photojournalism (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 A325 Writing for Film and Television (3)
   JPC A340 Web Design (3)
   JPC A341 Broadcast Journalism Production (3)
   JPC A345 Communication Research (3)

   Telecommunication and Film Option III (18 credits)
   Complete 18 credits:
   JPC A212 Writing (REQUIRED) (3)
   JPC A215 History of Mass Communication (3)
   JPC/ART A224 Beginning Photography (3)
   JPC A300 Photojournalism (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 A325 Writing for Film and Television (3)
   JPC A340 Web Design (3)
   JPC A341 Broadcast Journalism Production (3)
   JPC A345 Communication Research (3)

   Photography - Option V (18 credits)
   Complete 18 credits:
   JPC A212 Writing (REQUIRED) (3)
   JPC A215 History of Mass Communication (3)
   JPC/ART A224 Beginning Photography (3)
   JPC A300 Photojournalism (3)
   JPC/ART A323 Color Photography (3)
   JPC/ART A331 Experimental Photography (3)
   JPC A340 Web Design (3)
   JPC A341 Broadcast Journalism Production (3)
   JPC A345 Communication Research (3)

   or
   JPC A450 Internship in Journalism (3)
   JPC A461 Internship in Photography (3)
   JPC A470 Internship in Film and Television (3)
   JPC A490 Selected Topics in Communication (1-3)
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.

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

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
www.uaa.alaska.edu/~aylang/
Classroom Building K (K), Room 205, (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 ASL, Chinese, 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.
Bachelor of Arts, Languages

Admission Requirements
1. Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.
2. 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 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 Languages may choose from two options:

Option I: Single Language
1. Choose an emphasis language from French, German, Japanese, Russian, or Spanish.
2. Complete the required core course:
   LING A101 The Nature of Language 3
3. Complete required courses in the emphasis language:
   A201-A202 Intermediate I and II 8
   A301-A302 Advanced I and II 8
   also, Japanese Majors must take:
   JPN A210 Ideography and Calligraphy 1
4. 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). 12
5. 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). 6

Option II: Dual Languages
1. 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, Korean, or Latin. Other secondary languages may be chosen upon written approval of the Department.
2. Complete the required core course:
   LING A101 The Nature of Language 3
3. Complete required courses in the emphasis language:
   A201-A202 Intermediate I and II 8
   A301-A302 Advanced I and II 8
   also, Japanese Majors must take:
   JPN A210 Ideography and Calligraphy 1
4. 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). 9
5. Complete 8 credits in the second language 8

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 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
- Russian
- German
- Spanish
- Japanese

Faculty
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**LIBERAL STUDIES**

*College of Arts & Sciences, CAS Building Room 338, (907)786-1707*

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 School of Education for those students desiring an undergraduate route to certification as an elementary teacher.

**BACHELOR OF LIBERAL STUDIES**

**ADMISSION REQUIREMENTS**

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

A. **GENERAL UNIVERSITY REQUIREMENTS**

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

B. **GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements for Baccalaureate Degrees at the beginning of this chapter, except as modified by special requirements for the BLS as specified in this section.

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**

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 School of Education, College of Health, Education and Social Welfare. 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 Process: Natural Sciences 5

3. **Mathematical Skills**
   - MATH A107 or MATH A108 or MATH A109 or MATH A200 or 201 or A270 or A272* (3-6)
   - AS A252 Elementary Statistics (3)
   - or
   - AS A253* Applied Statistics for the Sciences (4)

4. **Liberal Studies Social Sciences (LSSS) Core**
   - AKNS/PS A411 Tribes, Nation and Peoples 3
   - LSSS A111 Cultural Foundations of Human Behavior 3
   - PSY A111* General Psychology 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**

Select one course from GER Fine Arts list* 3
- Studio Art or Performing Art 3
- or
- Creative Writing (from an approved list)
   - HUM A211* Introduction to Humanities I 3
   - HUM A212* Introduction to Humanities II 3
   - ENGL A202* Masterpieces of World Literature II 3
   - Two semester sequence of a Language, 6-8
   - American Sign Language, or Alaska Native Studies Language course (same language both semesters)*
   - Literature Elective 3
   - (from list of approved upper-division courses in English or Languages Departments)

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 I: Design and Research 3
- LSIC A488B Capstone 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. Discipline Area Concentration

12 additional credits in one discipline, 9 credits of which must be at the upper-division level, in either the Natural Sciences, Mathematical Sciences, Social Sciences, or Humanities/Fine Arts Disciplinary Areas and 6 credits in another discipline from a different Disciplinary Area, 3 credits of which must be at the upper-division level (e.g., 12 credits in Political Science and 6 credits in English).

8. Electives

A total of 120-124 credits is required for the degree.

FACULTY

David Natcher, Director/Assistant Professor

Mathematics

www.math.uaa.alaska.edu
College of Arts & Sciences Building (CAS) 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.

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 Department of Mathematical Sciences offers student tutoring and computer-assisted tutoring for those students needing additional assistance in mathematics.

In addition, the Department of Mathematical Sciences offers courses and programs for those students who wish to:

a. Obtain an Associate of Applied Science degree
b. Obtain an Associate of Arts degree
c. Obtain a Certificate
d. Study mathematics for use in another discipline.
e. Improved job-related mathematics skills.
f. Study mathematics for self-interest

Students interested in obtaining Teacher Certification to teach mathematics, must see a mathematics faculty advisor and an advisor from the School of Education.

HONORS IN MATHEMATICS

Students majoring in Mathematics are eligible to graduate with Departmental Honors if they satisfy the following requirements:

1. Meet the requirements for “Graduation with Honors” as listed in chapter 8 of this UAA catalog.
2. Meet the requirements for a BA/BS degree in Mathematics.
3. Earn grade point average of 3.5 or above in the major requirements.
4. Complete a minimum of twelve upper-division credits required for the major in residence.
5. 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

BACHELOR OF SCIENCE, MATHEMATICS

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

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

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees 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 the following courses (35 credits):
   - AS A307 Probability and Statistics 3
   - MATH A200 Calculus I 4
   - MATH A201 Calculus II 4
   - MATH A202 Calculus III 4
   - MATH A215 Introduction to Mathematical Proofs 2
   - MATH A302 Ordinary Differential Equations 3
   - MATH A303 Introduction to Modern Algebra 3
   - MATH A314 Linear Algebra 3
   - MATH A321 Analysis of Several Variables 3
   - MATH A324 Advanced Calculus 3
   - MATH A410 Introduction to Complex Analysis (3) 3
   - MATH A422 Partial Differential Equations (3) 3

2. Complete 9 additional upper division credits in approved courses using advanced mathematics. 9

3. All mathematics majors must take a standardized test of knowledge of mathematics approved by the mathematics faculty for the purpose of evaluating program effectiveness. This test will normally be taken during the senior year.

4. The program, including electives, must be developed with an academic advisor from the Mathematical Sciences Department.

5. Students interested in obtaining Teacher Certification to teach mathematics, or those that intend to apply to the MAT program must obtain advising from a mathematics faculty advisor and an advisor from the School of Education.

6. 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

FACULTY

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www.uaa.alaska.edu/music/
Arts Building (ARTS), Room 356, (907) 786-1595

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 numerous opportunities for continuing education.

The Department of Music offers three degree programs: Bachelor of Arts in Music, Bachelor of Music in Performance, and Bachelor of Music with Emphasis in Music Education.

The Bachelor of Arts in 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 their understanding and performance in their chosen areas of music.

The Bachelor of Music in Performance 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 with Emphasis in Music Education is a four-year program that provides the 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 School of Education for more information.

BACHELOR OF ARTS, MUSIC

BACHELOR OF MUSIC, PERFORMANCE

BACHELOR OF MUSIC, MUSIC, EMPHASIS IN MUSIC EDUCATION

ADMISSION REQUIREMENTS: ALL MAJORS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.
ACADEMIC PROGRESS:  ALL MAJORS

At the end of the sophomore year, all music majors must demonstrate a satisfactory level of proficiency of performance in their applied major in order to advance to upper-division courses. A student may elect to continue study at the 200-level in attempting to pass requirements for admission to upper-division study.

MUS A154, 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 Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences requirements for either a BA or BM, Performance degree, listed at the beginning of the CAS section. There are no additional requirements for the BM, Emphasis in Music Education degree.

D. MAJOR REQUIREMENTS:  ALL MAJORS

Students seeking a Bachelor of Music in Performance must complete a half recital in their junior year and a full recital in their senior year. Students seeking a Bachelor of Music with Emphasis in Music Education must complete a half recital in their senior year. In these recitals, the student must demonstrate the ability to perform a program of artistic merit satisfactorily in public.

1. Complete the following required courses (29 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 A254 Sightsinging and Ear Training IV 2
   MUS A280 Basic Conducting 2

2. All music majors enrolled in MUS A161 through A462 (juried Private Music Lessons at all levels) are required to participate in an appropriate ensemble each semester of enrollment. Piano majors enroll in MUS A302, Chamber Music and Accompanying.

3. All music majors enrolled in MUS A161 through A462 (juried Private Music Lessons at all levels) are required to perform in at least one student recital per semester.

4. Jury finals are required at the end of each semester for all music majors in MUS A161 through A462 (juried Private Music Lessons at all levels).

5. Attendance at department approved recitals and concerts is mandatory for all music majors enrolled in MUS A161 through A462 (juried Private Music Lessons at all levels) providing students with a variety of musical experiences which expand the regular curriculum. Failure to meet the minimum attendance requirement will lower by one letter the grade assigned for private lessons.

ADDITIONAL MAJOR REQUIREMENTS:

MUSIC MAJOR, BA

Note: Total credits for graduation may increase unless students select at least 3 credits of upper division courses in fulfillment of their GER and CAS BA Requirements.

1. Complete required music courses:
   MUS A161-A262 Private Lessons (on major instrument) 4
   MUS A301B, A302B, A303B, A307B, or A409B Ensembles 10
   MUS A331 Form and Analysis 3
   MUS A466, A467, A468, A469 or A408B Master Class 4 or 8

   NOTE: four semesters of Master Class are required.

2. Music majors may not enroll in upper-division academic courses (MUS A331, A420-A424, A431, or A432) until they have passed the piano proficiency exam by jury.

3. 67 credits must be completed outside Music.

4. Students must select, or have completed, enough upper division electives to meet UAA’s General University Requirement of 42 upper division credits.

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

ADDITIONAL MAJOR REQUIREMENTS:

PERFORMANCE MAJOR, BM

1. Complete required music courses:
   MUS A161-462 Private Lessons (on major instrument) 16
   MUS A301B, A302B, A303B, A307B, or A409B Ensembles* 16

   *Note: Pianist and guitarists may count a maximum of 12 credits in either A302B or A409B (whichever applies) towards their degree. The remaining four credits must be selected from a large ensemble (MUS A301B, A303B, or A307B).

   MUS A466, A467, A468, A469 or A408 Master Class 8/16

   Note: eight semesters of Master Class are required.
   MUS A331 Form and Analysis 3
   MUS A381 Choral Conducting (2) 2
   or
   MUS A382 Instrumental Conducting (2)

2. Select 12 upper-division credits from the following:
   MUS A420 Medieval and Renaissance Music 3
   MUS A421 Music in the Baroque Period 3
   MUS A422 Music in the Classical Period 3
   MUS A423 Music in the Romantic Period 3
   MUS A424 Music in the 20th Century 3
   MUS A431 Counterpoint 3
   MUS A432 Orchestration 3

3. Music majors must have passed the piano proficiency exam by jury before enrolling in private lessons at the MUS A361 level.

4. It is recommended that students select a two semester language sequence to satisfy GER Humanities requirement.

5. A total of 120-128 credits is required for the degree, of which 42 credits must be upper-division.
ADDITIONAL MAJOR REQUIREMENTS:
MUSIC MAJOR, BM EMPHASIS IN MUSIC EDUCATION

1. Complete required music courses:
   - MUS A161-A462 Private Lessons (on major instrument) 16
   - MUS A301B, A302B, A303B, A307B, or A409B Ensembles 16

   NOTE: Pianists and Guitarists may count a maximum of 12 credits in either A302B or A409B (whichever applies) towards their degree. The remaining four credits must be selected from a large ensemble MUS A301B, A303B, or A307B.

   - MUS A331 Form and Analysis 3
   - MUS A371-A376 Methods and Techniques 12
   - MUS A381 Choral Conducting (2) 2
     or
   - MUS A382 Instrumental Conducting (2)
   - MUS A420-A424 Music History Elective 3
   - MUS A432 Orchestration 3
   - MUS A466, A467, A468, A469, A408B Master Class 8

2. It is recommended that students select HIST A341 as a GER Social Science elective.

3. Music majors must have passed the piano proficiency exam by jury before enrolling in private lessons at the MUS A361 level.

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

5. Students wanting certification in Music K-12 must complete a one-year post-baccalaureate program. Admission to the program is limited.

6. UAA’s graduate application for admission into the post-baccalaureate program must be completed by MARCH 1, for admission to the program the following Summer. This is the only admission period.

7. Students seeking music certification must have completed all requirements for the Bachelor of Music with Emphasis in Music Education degree with a 3.0 GPA or better, for admission to the post-baccalaureate program.

8. Students must take the GRE or 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 you intend to start the program.

9. Students seeking certification should contact the School 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. A total of 19 credits is required for the minor, 8 of which must be upper-division. To successfully complete the private lesson requirement, students must complete MUS A161 and A162 (juried Private Music Lessons). Two jury examinations are required, one at the end of each semester.

   - MUS A111, A131, or A132 6
   - MUS A121 or A221 or A222 3
   - MUS A301B, A302B, A303B, A307B, or A409B 4 or 6
   - MUS A161-A162 2
   - MUS A466, A467, A468, A469 or A408B 2 or 4

   NOTE: two semesters of Master Class are required.
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.

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 in Biology and Chemistry or Geology, according to the student’s declared area of emphasis.

**BACHELOR OF SCIENCE, NATURAL SCIENCES**

**ADMISSION REQUIREMENTS**

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

**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 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.

   - Anthropology
   - Geomatics
   - Astronomy
   - Health Sciences
   - Biology
   - Honors Program
   - Chemistry
   - Mathematics
   - Computer Science
   - Psychology
   - Geography
   - Statistics
   - Geology
   - UAF Palmer Research Center
   - Geographic Information Systems

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
   - Computer Sciences
   - Mathematics
   - Environmental Sciences
   - Wildlife Management
   - Engineering
   - Oceanography
   - Health Sciences
   - Psychology

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.
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 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.

**BACHELOR OF ARTS, PHILOSOPHY**

**ADMISSIONS REQUIREMENTS**
Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

**GRADUATION REQUIREMENTS**
Students must complete the following graduation requirements:

**A. GENERAL UNIVERSITY REQUIREMENTS**
Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

**B. GENERAL EDUCATION REQUIREMENTS**
Complete the General Education Requirements for Baccalaureate Degrees 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**
To earn a Bachelor of Arts Degree in Philosophy, students must complete the following 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: Ancient and Medieval 3
     - PHIL A212 History of Philosophy II: Modern 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/ENVI 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

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 Certificate Admission requirements at the beginning of this chapter.

**GRADUATION REQUIREMENTS**
1. Complete the following requirements:
   - Written Communication Skills. Complete two courses from the GER requirements for written communication skills (6 credits).
   - Oral Communication Skills. Complete one course from the GER requirements for oral communication skills (3 credits).
   - Quantitative Skills. Complete one course from the GER requirements for quantitative skills (3 credits).
   - Critical Reasoning skills. Complete the following course: 3
     - PHIL A101 Introduction to Logic
   - Ethical Theory. Complete the following course (3 credits): 3
     - PHIL A301 Ethics

www.uaa.alaska.edu
1. Complete the following courses: 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)

2. Complete two courses from the following: 6
   - 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)

*(Please note: Graduate courses taken to satisfy this requirement cannot also be counted towards a graduate degree in that program).*

PHIL A495 Service Learning in Applied Ethics 3

2. A total of 30 credits is required for the certificate.

**MINOR, PHILOSOPHY**

1. Choose one of the following tracks (18 credits):
   (Courses selected may not be used in more than one track)

**Philosophy Track**

1. Complete the following courses:
   - Logical Reasoning and Argumentation
     - PHIL A101 Introduction to Logic 3
   - Foundations of Philosophy
     - PHIL A201 Introduction to Philosophy 3
     - PHIL A211 History of Philosophy I 3
     - PHIL A212 History of Philosophy II 3

2. 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**

1. Complete the following courses:
   - Logical Reasoning and Argumentation
     - PHIL A101 Introduction to Logic 3
   - Foundations of Philosophy
     - PHIL A201 Introduction to Philosophy 3
     - PHIL A211 History of Philosophy I 3
     - PHIL A212 History of Philosophy II 3
   - Ethics and Values
     - PHIL A301 Ethics 3
     - Philosophical Foundations of the Law
     - PHIL A406 Philosophy of Law 3

**POLITICAL SCIENCE**

www.uaa.alaska.edu/polsci/

*College of Arts & Sciences Building (CAS) 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 with an emphasis in Political Science and an emphasis in Public Administration. Students selecting the Political Science emphasis take two introductory courses and four additional upper-division Political Science electives. Students selecting the Public Administration emphasis 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 Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

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GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

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

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS

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)
   - AKNS/PS 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)

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.

MINOR, POLITICAL SCIENCE

The Department of Political Science offers a minor with an emphasis in Political Science or an emphasis 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 octothorp (#) after their titles.

Political Science

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

Introductory courses (6 credits):
   - PS A101 Introduction to American Government # 3
   - 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 Political Science minor with an emphasis 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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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 overall GPA of 3.50.
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. Attain a score at or above the 75th percentile on the Psychology Specialty Test of the Graduate Record Exam. (Allow six weeks for scores to reach the Department).
7. 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 Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees 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). In this course you will conduct a major project designed to synthesize and apply material from the Psychology major.

   - 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.

RECOMMENDED COURSE SEQUENCE

First Year

   - PSY A111 General Psychology
   - PSY A150 Life Span Development
   - *UAA/CAS GER course electives

Second Year

   - PSY A260 Statistics for Psychology
   - PSY A261 Research Methods in Psychology
   - Psychology Major Electives
   - *UAA/CAS GER courses electives

Third/Fourth Year

   - PSY A345 Abnormal Psychology
   - PSY A355 Learning and Cognition
   - PSY A368 Personality
   - PSY A370 Biological Psychology
   - PSY A375 Social Psychology
   - Psychology elective
   - *UAA/CAS GER courses electives
   - take the following:
     Psychology Major Capstone Course
     remaining UAA/CAS GER course electives
     Upper-division electives
     Psychology Major electives
     UAA upper-division requirement (42 cr)
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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SOCIOMETRY
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 Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate Degrees 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):**
      - SOC A275 Social Psychology: 3
      - SOC A363 Social Stratification: 3
      - SOC A405 Social Change: 3
   b. **Complete two core area courses (6 credits):**
      - SOC A242 An Introduction to Marriage, Family and Intimate Relationships: 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):**
      - 1. For the Academic Emphasis, complete two additional courses from item “b” core area courses (above).
      - 2. For the Applied Emphasis, complete two courses from the following application courses:
         - SOC A142 Sociology of Sexuality: 3
         - 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):**
      - SOC A202 The Social Organization of Society: 3
      - SOC A343 Sociology of Deviant Behavior: 3
      - SOC A363 Social Stratification: 3
      - SOC/HS A370 Medical Sociology: 3
      - SOC A404 Environmental Sociology: 3
      - SOC A405 Social Change: 3
   b. **Complete two core area courses (6 credits):**
      - SOC A222 Small and Rural Communities: 3
      - SOC A309 Urban Sociology: 3
      - SOC A373 Strategies of Community Change: 3
      - SOC/SWK A407 Formal Organizations: 3
      - SOC A408 American Minority Groups: 3
   c. **Select either the Academic Emphasis or the Applied Emphasis (6 credits):**
      - 1. For the Academic Emphasis, complete two additional courses in item “b” core area courses (above).
      - 2. For the Applied Emphasis, complete required applications courses:
         - SOC/JUST A454 Evaluation Research and Change: 3
         - SOC A487 Sociology Practicum: 3
         - (May be repeated)

   3. 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
- SOC/PS A361 Social Science Research Methods: 3
- SOC A402 Theories of Sociology: 3
- Upper-division Sociology electives: 3
- Sociology electives, any level: 6

**FACULTY**

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THEATRE
webserver.cts.uaa.alaska.edu/theatre/
Arts Building (ARTS), Room 332, (907) 786-1792

Theatre is the art of giving life in performance to dramatic literature. The Department of Theatre offers a well-rounded liberal arts approach in its curriculum, with courses covering all the basic areas of theatrical endeavor, including acting, directing, stagecraft, scene design, lighting, costuming, makeup, dramatic literature, theatre history, dramatic theory and criticism, and playwriting.

Production is at the very center of our award-winning theatre program. Each season UAA Theatre produces four plays on its convertible thrust Main Stage, and as many as twenty one act or full-length plays in the student-directed Second Stage program. In most 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 Main Stage productions 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
Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate Degrees 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 (33 credits):
   THR A111 Introduction to the Theatre 3
   THR A121 Acting I 3
   THR A131 Theatrical Production Techniques 3
   THR A141 Stagecraft I 3
   THR A221 Acting II: Movement for the Actor 3
   THR A243 Scene Design 3
   THR A257 Costume Design and Construction I 3
   THR A311 Representative Plays I (3) 3
   THR A312 Representative Plays II (3) 3
   THR A331 Directing I 3
   THR A411 History of the Theatre I 3
   THR A412 History of the Theatre II 3
2. Choose two of the following Performance Area courses: 6
   THR A315 Playwriting Workshop (3)
   THR A321 Acting III Scene Study (3)
   THR A324 Voice for the Actor (3)
   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)
3. Choose one of the following Design Area courses: 3
   THR A341 Stagecraft II (3)
   THR A343 Scenic Design II (3)
   THR A347 Lighting Design (3)
   THR A357 Costume Design and Construction II (3)
4. Complete the following Technical Area courses: 4
   THR A295 Theatre Practicum: Technical (2)
   THR A495 Advanced Practicum: Technical (2)
5. 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
   THR A312 Representative Plays II (3) 3
   THR A411 History of the Theatre I (3) 3
   THR A412 History of the Theatre II (3) 3
   Theatre electives 3

FACULTY
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Tom Skore, Associate Professor
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.

1. 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

2. 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-directors.

   - 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 A150 Marriage, Divorce and Intimate Relationships in the 90’s (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-Directors.

FACULTY

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Elizabeth Dennison, Associate Prof/Co-Chair, AFEJD@uaa.alaska.edu
COLLEGE OF BUSINESS AND PUBLIC POLICY

The College of Business and Public Policy has six departments: (1) Accounting, (2) Business Administration, (3) Computer Information and Office Systems, (4) Economics, (5) Logistics and (6) Public Administration. The Associate of Applied Science, Bachelor of Business Administration, Bachelor of Arts in Economics, Master of Business Administration, 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 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 International Association in Management Education (AACS§). 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).

MISSION

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.alaska.edu/DEGREES/acct.html
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, and Matanuska-Susitna College campuses.

ASSOCIATE OF APPLIED SCIENCE, ACCOUNTING

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

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 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.
**RECOMMENDED COURSE SEQUENCE**

To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

### First Year

**Fall Semester (15 credits):**
- ACCT A101 Principles of Financial Accounting I 3
- BA A151 Introduction to Business 3
- ENGL A111 Methods of Written Communication 3
- COMM A111, A235, A237 or A241 3
- General Requirement* 3

**Spring Semester (15 credits):**
- ACCT A102 Principles of Financial Accounting II 3
- BA A241 Business Law I 3
- CIOS A110 Computer Concepts in Business 3
- ENGL A211, A212, A213 (ENGL 212 recommended) or CIOS A262 Written Business Communications 3
- General Requirement* 3

### Second Year

**Fall Semester (15 credits):**
- ACCT A202 Principles of Managerial Accounting 3
- ACCT A201 Income Tax Preparation 3
- ACCT A222 Introduction to Computers and Accounting 3
- Business elective** 3
- Business elective** 3

**Spring Semester (15 credits):**
- ACCT A225 Accounting for Payroll, Receivables and Payables 3
- ACCT A230 Financial Statement Preparation and Presentation 3
- ECON A201 Principles of Macroeconomics 3
- Business elective** 3
- Business elective** 3

* See General Requirement list for approved course classifications
** 100-level or higher courses in ACCT, BA, CIOS, ECON, or LOG. No more than 6 credits from one discipline.

*Note: Students must take ACCT A101-A102 sequence for this degree.*

### Admission to Upper-division Status:

- **BBA students in Accounting, Business Administration, Global Logistics Management and Management Information Systems** who do not meet the above standards may not take upper-division courses in ACCT, BA, CIOS, and LOG.

- Other students who meet courses’ prerequisites may take up to fifteen (15) upper-division ACCT, BA, CIOS 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, CIOS 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 baccalaureate General University Requirements 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, and CIOS 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
   - BAA273 Introduction to Statistics for Business and Economics 3
   - CIOS 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
   - MATH A107 College Algebra (4)
MATH A272 Calculus for Managerial Sciences (3) 3-4
*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
   CIOS A380 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
   JUS/T/BA241 Business Law I 3
   Accounting electives* 6
   Upper-division ECON elective or BA A375 3
   *Required 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.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year
Fall Semester (15 credits):
   ENGL A111 Methods of Written Communication 3
   COMM A111, A235, A237 or A241 3
   Humanities GER 3
   Natural Science GER 3
   Elective* 3

Spring Semester (16-17 credits):
   CIOS A110 Computer Concepts in Business 3
   ENGL A212 Technical Writing 3
   MATH A270 or A107 3-4
   Arts GER 3
   Natural Science with lab GER 4

Second Year
Fall Semester (15-16 credits):
   ACCT A201 Principles of Financial Accounting 3
   BA A241 Business Law I 3
   ECON A201 Principles of Macroeconomics 3
   MATH A272 or A200 3-4
   Social Science GER 3

Spring Semester (15 credits):
   ACCT A202 Principles of Managerial Accounting 3
   BA A273 Introduction to Statistics for Business and Economics 3
   ECON A202 Principles of Microeconomics 3
   Social Science GER 3
   Humanities GER 3

Third Year
Fall Semester (15 credits):
   ACCT A301 Intermediate Accounting I 3
   ACCT A342 Managerial Cost Accounting 3
   BA A300 Organizational Theory and Behavior 3
   CIOS A380 Managerial Presentations 3
   Elective* 3

Spring Semester (15 credits):
   ACCT A302 Intermediate Accounting II 3
   ACCT A310 Income Tax 3
   BA A325 Corporate Finance 3
   BA A343 Principles of Marketing 3
   Elective* 3

Fourth Year
Fall Semester (15 credits):
   ACCT A316 Accounting Information Systems 3
   ACCT A310 Income Tax 3
   BA A325 Corporate Finance 3
   BA A343 Principles of Marketing 3
   Elective* 3

Spring Semester (12-14 credits):
   ACCT A452 Auditing 3
   Upper-division ECON elective or BA A375 3
   ACCT elective** 3
   Elective* 3
   Elective* 0-2
   * 100-level or higher. 9-11 credit hours must be in courses other than ACCT, BA, CIOS, ECON, or LOG.
   ** See approved list of upper-division Accounting electives in this section.

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.

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www.uaa.alaska.edu
The Department of Business Administration offers a Certificate in Small Business Management at the Kenai campus, an AAS degree in General Business at the 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, 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.

**Certificate Small Business Management**

This Small Business Management certificate is offered only through Kenai Peninsula College.

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.

1. Complete the following communications requirements (6 credits):
   - ENGL A111 Methods of Written Communication (3)
   - ENGL A211 Academic Writing About Literature (3)
   - ENGL A212 Technical Writing (3)
   - ENGL A213 Writing in the Social and Natural Sciences (3)
   - CIOS A262 Written Business Communications (3)

2. Complete the following requirements:
   - A. Select 3 credits from the following:
     - ACCT A101* Principles of Financial Accounting I (3)
     - ACCT A102 Principles of Financial Accounting II (3)
     - ACCT A120 Bookkeeping for Business I (3)
   - B. Select 3 credits from the following:
     - 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.

3. Complete the following:
   - BA A166 Small Business Management (3)
   - BA A231 Fundamentals of Supervision (3)

4. Select 6 credits from the following:
   - ACCT Accounting
   - BA Business Administration
   - CIOS Computer Information and Office Systems
   - ECON Economics

5. With advisor’s approval, complete 3-5 elective credits.
   - MATH A102 Business Math, or higher is recommended. (3-5)

6. 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**

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

**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 requirements (15 credits) located at the beginning of this chapter.

**Major Requirements**

1. 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)
   - CIOS A105 Introduction to PC Computers and Applications (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 CIOS 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**

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

**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 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

1. 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)
   CIOS 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.

2. 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)

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)

4. A total of 60 credits is required for the degree.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is strongly that recommended students follow this course sequence:

First Year
Fall Semester (15 credits):
   BA A151 Introduction to Business (3)
   BA A264 Salesmanship (3)
   ECON A201 Principles of Macroeconomics (3)
   ENGL A111 Methods of Written Communication (3)
   COMM A111, A235, A237 or A241 (3)
   Spring Semester (15 credits):
   ACCT A201 Principles of Financial Accounting (3)
   BA A166 Small Business Management (3)
   ECON A202 Principles of Microeconomics (3)
   ENGL A211, A212, A213 (ENGL A212 recommended) or
   CIOS A262 Written Business Communications (3)
   Program Elective* (3)

Second Year
Fall Semester (15-16 credits):
   ACCT A202 Principles of Managerial Accounting (3)
   BA A231 Fundamentals of Supervision (3)
   BA A241 Business Law I (3)
   CIOS A110 Computer Concepts in Business (3)
   Program Elective* (3)

Spring Semester (15 credits):
   BA A233 Fundamentals of Financial Management (3)
   BA A260 Marketing Practices (3)
   MATH A270, A107 or A105** (3-4)
   Program Elective* (3)
   Program Elective* (3)

* See list of approved program electives in this section.
** Option to take MATH A105 applies to AAS degrees only.

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 four majors — Economics, Finance, 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 Baccalaureate Degree Programs Admission Requirements located at the beginning of this chapter.

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)
   CIOS 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)
3. Completion of at least 9 credits that satisfy UAA General Education Requirements in the following areas:
   Fine Arts
   Humanities
   Natural Sciences

Admission to Upper-division Status:
BBA students in Accounting, Business Administration, Global Logistics Management and Management Information Systems who do not meet the above standards may not take upper-division courses in ACCT, BA, or CIOS.
Other students who meet courses prerequisites may take up to fifteen (15) upper-division ACCT, BA, CIOS, 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, CIOS, 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 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, CIOS, 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
   - BAA273 Introduction to Statistics for Business and Economics 3
   - CIOS 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
   - MATH A107 College Algebra (4) 3-4
   - MATH A272 Calculus for Managerial Sciences (3) 3-4
   - MATH A200 Calculus I (4) 3-4

   *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 (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
   - CIOS A376 Management Information Systems 3
   - CIOS A380 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.

RECOMMENDED COURSE SEQUENCE
To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year
Fall Semester (15 credits):
   - ENGL A111 Methods of Written Communication 3
   - COMM A111, A235, A237 or A 241 3
   - Humanities GER 3
   - Natural Science GER 3
   - Elective* 3

Spring Semester (16-17 credits):
   - CIOS A110 Computer Concepts in Business 3
   - ENGL A212 Technical Writing 3
   - MATH A270 or A107 3-4
   - Humanities GER 3
   - Natural Science with lab GER 4

Second Year
Fall Semester (15-16 credits):
   - ACCT A201 Principles of Financial Accounting 3
   - BA A241 Business Law I 3
   - ECON A201 Principles of Macroeconomics 3
   - MATH A272 or A200 3-4
   - Social Science GER 3

Spring Semester (15 credits):
   - ACCT A202 Principles of Managerial Accounting 3
   - BA A273 Introduction to Statistics for Business and Economics 3
   - ECON A202 Principles of Microeconomics 3
   - Fine Arts GER 3
   - Elective* 3

*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.
Third Year

Fall Semester (15 credits):
- BA A300 Organizational Theory and Behavior 3
- BA A325 Corporate Finance 3
- BA A343 Principles of Marketing 3
- ECON A321 Intermediate Microeconomics 3
- ECON A350 Money and Banking 3

Spring Semester (15 credits):
- BA A377 Operations Management 3
- CIOS A376 Management Information Systems 3
- CIOS A380 Managerial Presentations 3
- ECON A324 Intermediate Macroeconomics 3

Fourth Year

Fall Semester (15 credits):
- ECON A429 Business Forecasting 3
- Upper-division ECON elective 3
- Upper-division ECON elective 3
- Elective* 3
- Elective* 3

Spring Semester (15 credits):
- BA A488 The Environment of Business 3
- Upper-division ECON elective 3
- Upper-division ECON elective 3
- Elective* 3

*100-level or higher in courses other than ACCT, BA, CIOS, ECON, or LOG.

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
   - 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.

Recommended Course Sequence

To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year

Fall Semester (15 credits):
- ENGL A111 Methods of Written Communication 3
- COMM A111, A235, A237 or A243 3
- Humanities GER 3
- Natural Science GER 3
- Social Science GER 3

Spring Semester (16-17 credits):
- CIOS A110 Computer Concepts in Business 3
- ENGL A212 Technical Writing 3
- MATH A270 or A107 3-4
- Humanities GER 3
- Natural Science with lab GER 4

Second Year

Fall Semester (15-16 credits):
- ACCT A201 Principles of Financial Accounting 3
- ECON A201 Principles of Macroeconomics 3
- MATH A272 or A200 3-4
- BA A241 Business Law I 3
- Elective* 3

Spring Semester (15 credits):
- ACCT A202 Principles of Managerial Accounting 3
- BA A273 Introduction to Statistics for Business and Economics 3
- ECON A202 Principles of Microeconomics 3
- Arts GER 3
- Elective* 3

Third Year

Fall Semester (15 credits):
- BA A300 Organizational Theory and Behavior 3
- BA A325 Corporate Finance 3
- BA A343 Principles of Marketing 3
- CIOS A380 Managerial Presentations 3
- Upper-division Business elective** 3
- Elective* 3

Spring Semester (15 credits):
- BA A377 Operations Management 3
- CIOS A376 Management Information Systems 3
- ECON A429 or BA A375 3
- Upper-division Business elective** 3
- Elective* 3

Fourth Year

Fall Semester (15 credits):
- BA A425 Advanced Corporate Financial Problems 3
- BA A427 International Finance 3
- BA A488 The Environment of Business 3
- Upper-division Business elective** 3
- Elective* 3

Spring Semester (12-14 credits):
- BA A426 Financial Institutions 3
- BA A450 Investment Management 3
- Upper-division Business elective** 3
- Upper-division Business elective** 3
- Elective* 0-2

* 100-level or higher in courses other than ACCT, BA, CIOS, ECON, or LOG.
** At least nine (9) credits must be in ECON, ACCT or Real Estate
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 Business Administration Internship* 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)
   - CIOS A310 Analysis of Business Systems (3)
   - CIOS A330 Database Management Systems (3)
   - CIOS A410 Project Management (3)
   - CIOS A489 Systems Design and Implementation (3)
   - ECON A249 Business Forecasting (3)
   - ECON A463 International Economics (3)
   - AT A432 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.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year

Fall Semester (15 credits):
   - ENGL A111 Methods of Written Communication 3
   - COMM A111, A235, A237 or A 241 3
   - Humanities GER 3
   - Natural Science GER 3
   - Elective* 3

Spring Semester (16-17 credits):
   - CIOS A110 Computer Concepts in Business 3
   - ENGL A212 Technical Writing 3
   - MATH A270 or A107 3-4
   - Humanities GER 3
   - Natural Science with lab GER 4

Second Year

Fall Semester (15-16 credits):
   - ACCT A201 Principles of Financial Accounting 3
   - BA A241 Business Law I 3
   - ECON A201 Principles of Macroeconomics 3
   - MATH A272 or A200 3-4
   - Social Science GER 3

Spring Semester (15 credits):
   - ACCT A202 Principles of Managerial Accounting 3
   - BA A273 Introduction to Statistics for Business and Economics 3
   - ECON A202 Principles of Microeconomics 3
   - Fine Arts GER 3
   - Elective* 3

Third Year

Fall Semester (15 credits):
   - BA A300 Organizational Theory and Behavior 3
   - BA A325 Corporate Finance 3
   - BA A343 Principles of Marketing 3
   - BA A377 Operations Management 3
   - LOG A378 Global Logistics Supply Chains 3

Spring Semester (15 credits):
   - LOG A379 Transportation Management 3
   - CIOS A376 Management Information Systems 3
   - CIOS A380 Managerial Presentations 3
   - Elective* 3
   - Elective* 3

Fourth Year

Fall Semester (15 credits):
   - LOG A415 Purchasing Management 3
   - LOG A495 Internship† 3
   - Upper-division program elective** 3
   - Upper-division program elective** 3

Spring Semester (12-14 credits):
   - LOG A416 International Logistics 3
   - LOG A417 Materials Management 3
   - BA A488 The Environment of Business 3
   - Upper-division program elective** 3
   - Elective* 0-2

* 100-level or higher in courses other than ACCT, BA, CIOS, ECON, or LOG.
** See approved upper division program electives
† Internship in logistics. May be waived with advisor approval

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, CIOS or ECON 12

2. A total of 120 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year

Fall Semester (15 credits):
   - ENGL A111 Methods of Written Communication 3
   - COMM A111, A235, A237 or A 241 3
   - Humanities GER 3
   - Natural Science GER 3
   - Elective* 3

Spring Semester (16-17 credits):
   - CIOS A110 Computer Concepts in Business 3
   - ENGL A212 Technical Writing 3
   - MATH A270 or A107 3-4
   - Humanities GER 3
   - Natural Science with lab GER 4

Second Year

Fall Semester (15-16 credits):
   - ACCT A201 Principles of Financial Accounting 3
   - BA A241 Business Law I 3
   - ECON A201 Principles of Macroeconomics 3
   - MATH A272 or A200 3-4
   - Social Science GER 3

Spring Semester (15 credits):
   - ACCT A202 Principles of Managerial Accounting 3
   - BA A273 Introduction to Statistics for Business and Economics 3
   - ECON A202 Principles of Microeconomics 3
   - Fine Arts GER 3
   - Elective* 3

Third Year

Fall Semester (15 credits):
   - BA A300 Organizational Theory and Behavior 3
   - BA A325 Corporate Finance 3
   - BA A343 Principles of Marketing 3
   - BA A377 Operations Management 3
   - LOG A378 Global Logistics Supply Chains 3

Spring Semester (15 credits):
   - LOG A379 Transportation Management 3
   - CIOS A376 Management Information Systems 3
   - CIOS A380 Managerial Presentations 3
   - Elective* 3
   - Elective* 3

Fourth Year

Fall Semester (15 credits):
   - LOG A415 Purchasing Management 3
   - LOG A495 Internship† 3
   - Upper-division program elective** 3
   - Upper-division program elective** 3

Spring Semester (12-14 credits):
   - LOG A416 International Logistics 3
   - LOG A417 Materials Management 3
   - BA A488 The Environment of Business 3
   - Upper-division program elective** 3
   - Elective* 0-2

* 100-level or higher in courses other than ACCT, BA, CIOS, ECON, or LOG.
** See approved upper division program electives
† Internship in logistics. May be waived with advisor approval
Second Year

Fall Semester (15-16 credits):
- ACCT A201 Principles of Financial Accounting 3
- BA A241 Business Law I 3
- ECON A201 Principles of Macroeconomics 3
- MATH A272 or A200 3-4
- Elective 3

Spring Semester (15 credits):
- ACCT A202 Principles of Managerial Accounting 3
- BA A273 Introduction to Statistics for Business and Economics 3
- ECON A202 Principles of Microeconomics 3
- Fine Arts GER 3
- Elective* 3

Third Year

Fall Semester (15 credits):
- BA A300 Organizational Theory and Behavior 3
- BA A325 Corporate Finance 3
- BA A343 Principles of Marketing 3
- CIOS A380 Managerial Presentations 3
- Elective* 3

Spring Semester (15 credits):
- BA A361 Human Resource Management 3
- BA A377 Operations Management 3
- CIOS A376 Management Information Systems 3
- Upper-division Business elective 3
- Elective* 3

Fourth Year

Fall Semester (15 credits):
- BA A461 Negotiations and Conflict Management 3
- BA A462 Strategic Management 3
- BA A488 The Environment of Business 3
- Upper-division Business elective 3
- Elective* 3

Spring Semester (12-14 credits):
- BA A481 Applications in Management 3
- BA A489 Entrepreneurship and New Business Planning 3
- Upper-division Business elective 3
- Upper-division Business elective 3
- Elective* 0-2

* 100-level or higher in courses other than ACCT, BA, CIOS, ECON, or LOG.

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 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 6
   - Recommended:
     - 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.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year

Fall Semester (15 credits)
- ENGL A111 Methods of Written Communication 3
- COMM A111, A235, A237 or A 241 3
- Humanities GER 3
- Natural Science GER 3
- Social Science GER 3

Spring Semester (16-17 credits)
- CIOS A110 Computer Concepts in Business 3
- ENGL A212 Technical Writing 3
- MATH A270 or A107 3-4
- Humanities GER 3
- Natural Science with lab GER 3

Second Year

Fall Semester (15-16 credits)
- ACCT A201 Principles of Financial Accounting 3
- BA A264 Personal Selling 3
- ECON A201 Principles of Macroeconomics 3
- MATH A272 or A200 3-4
- Elective*

Spring Semester (15 credits)
- ACCT A202 Principles of Managerial Accounting 3
- BA A273 Introduction to Statistics for Business and Economics 3
- ECON A202 Principles of Microeconomics 3
- Fine Arts GER 3
- BA A241 Business Law I 3

Third Year

Fall Semester (15 credits)
- BA A300 Organizational Theory and Behavior 3
- BA A325 Corporate Finance 3
- BA A343 Principles of Marketing 3
- CIOS A380 Managerial Presentations 3
- Elective* 3

Spring Semester (15 credits)
- BA A310 Consumer Behavior 3
- BA A350 Marketing Research 3
- BA A377 Operations Management 3
- ECON A429 or BA A375 3
- Upper-division elective** 3

Fourth Year

Fall Semester (15 credits)
- BA A488 The Environment of Business 3
- Upper-division Business elective 3
- Upper-division elective 3
- Elective* 3

Spring Semester (12-14 credits)
- BA A460 Marketing Management 3
- CIOS A376 Management Information Systems 3
- Upper-division Business elective 3
- Upper-division elective 3
- Elective* 0-2

* 100-level or higher in courses other than ACCT, BA, CIOS or ECON.
**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.

**FACULTY**

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**COMPUTER INFORMATION AND OFFICE SYSTEMS**

[www.cbpp.alaska.edu/DEGREES/cios.html](http://www.cbpp.alaska.edu/DEGREES/cios.html)

*Business Education Building (BEB), Room 309, (907) 786-4100*

The Computer Information and Office 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 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. New laboratories include a special business presentation facility and an experimental decision-support room.

Computer courses are taught using both structured instructor-led and self-guided tutorial approaches.

**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 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 careful 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.

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
See Certificate and Associate Degree Program Admission Requirements at the beginning of this chapter. 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 CIOS 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 CIOS 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 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
   - CIOS 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

3. Complete CIOS required courses (16 credits):
   - CIOS A185 Introduction to Programming Business Applications 3
   - CIOS A201 Programming Business Applications 4
   - CIOS A310 Analysis of Business Systems 3
   - CIOS A330 Database Management Systems 3
   - CIOS A345 Managing Data Communications and Computer Networks 3

4. Complete elective credits approved by a CIOS Department advisor (6 credits).

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.

RECOMMENDED COURSE SEQUENCE
To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year
Fall Semester (15-16 credits):
   - ACCT A201 Principles of Financial Accounting 3
   - CIOS A110 Computer Concepts in Business 3
   - ENGL A111 Methods of Written Communication 3
   - MATH A270 or A107 3-4
   - General Requirement* 3

Spring Semester (15 credits):
   - ACCT A202 Principles of Managerial Accounting 3
   - CIOS A185 Introduction to Programming Business Applications 3
   - ENGL A211, A212 or A213 (ENGL A212 recommended) 3
   - COMM A111, A235, A237 or A241 3
   - General Requirement* 3

Second Year
Fall Semester (16 credits):
   - BA A273 Introduction to Statistics for Business and Economics 3
   - CIOS A330 Database Management Systems 3
   - CIOS A201 Principles of Microeconomics 3
   - ECON A201 Principles of Macroeconomics 3
   - General Education Requirement** 3

Spring Semester (15 credits):
   - CIOS A345 Managing Data Communication and Computer Networks 3
   - CIOS A310 Analysis of Business Systems 3
   - ECON A202 Principles of Microeconomics 3
   - Program elective† 3
   - Program elective† 3

* See General Requirement list for approved course classifications.
** See General Education Requirement list for approved courses.
† See approved list of program electives in this section.

COLLEGE OF BUSINESS AND PUBLIC POLICY
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www.uaa.alaska.edu
BACHELOR OF BUSINESS ADMINISTRATION,
MANAGEMENT INFORMATION SYSTEMS

ADMISSION REQUIREMENTS
Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

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
   - CIOS 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, Business Administration, Global Logistics Management and Management Information Systems and Marketing who do not meet the above standards may not take upper-division courses in ACCT, BA, CIOS or LOG.

Other students who meet course prerequisites may take up to fifteen (15) upper-division ACCT, BA, CIOS, 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, CIOS 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 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, CIOS (except CIOS 185), 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
   - CIOS 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)
   - 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
   - CIOS A380 Managerial Presentations 3
   - BA A488 The Environment of Business 3
   - CIOS A376 Management Information Systems 3

D. MAJOR REQUIREMENTS
1. Complete the following required courses with a grade of “C” or better (22 credits):
   - CIOS A185 Introduction to Programming Business Applications 3
   - CIOS A201 Programming Business Applications 4
   - CIOS A310 Analysis of Business Systems 3
   - CIOS A330 Database Management Systems 3
   - CIOS A345 Managing Data Communication and Computer Networks 3
   - CIOS A410 Project Management 3
   - CIOS A489 Systems Design 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:
   
   CIOS A315  Advanced Topics in Microcomputer Applications for Business (3)
   CIOS A340  Client-Server Programming (3)
   CIOS A360  Rapid Application Development (3)
   CIOS A361  Advanced C Programming and UNIX Environment (3)
   CIOS A365  Object-Oriented Programming (3)
   CIOS A395  Programmer/Analyst Internship (1-3)
   CIOS A420  Consulting and Training End Users (3)
   CIOS A421  Multimedia Authoring (3)
   CIOS A422  Web Site Design and Development (3)
   CIOS A430  Decision Support and Expert Systems (3)
   CIOS A445  Advanced Network Management (3)
   CIOS A490  MIS Seminar/Project (1-6)
   ECON A429  Business Forecasting (3)

3. A minimum of CIOS 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.

**RECOMMENDED COURSE SEQUENCE**

To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

**First Year**

Fall Semester (15-16 credits):
- CIOS A110  Computer Concepts in Business 3
- ENGL A111  Methods of Written Communication 3
- MATH A270 or A107 3-4
- COMM A111, A235, A237 or A241 3
- Humanities GER 3

Spring Semester (15-16 credits):
- CIOS A185  Introduction to Programming Business Applications 3
- ENGL A212  Technical Writing 3
- MATH A272 or A200 3-4
- Humanities GER 3
- Natural Science GER 3

**Second Year**

Fall Semester (16 credits):
- ACCT A201  Principles of Financial Accounting 3
- BA A273  Introduction to Statistics for Business and Economics 3
- CIOS A201  Programming Business Applications 4
- ECON A201  Principles of Macroeconomics 3
- Social Science GER 3

Spring Semester (16 credits):
- ACCT A202  Principles of Managerial Accounting 3
- ECON A202  Principles of Microeconomics 3
- Arts GER 3
- Natural Science with lab GER 4
- Social Science GER 3

**Third Year**

Fall Semester (15 credits):
- BA A300  Organizational Theory and Behavior 3
- CIOS A330  Database Management Systems 3
- CIOS A380  Managerial Presentations 3
- CIOS A376  Management Information Systems 3
- Elective* 3

Spring Semester (15 credits):
- BA A325  Corporate Finance 3
- CIOS A310  Analysis of Business Systems 3
- BA A343  Principles of Marketing 3
- BA A377  Operations Management 3
- Upper-division program elective** 3

**Fourth Year**

Fall Semester (15 credits):
- CIOS A410  Project Management 3
- CIOS A345  Managing Data Communication and Computer Networks 3
- Upper-division program elective** 3
- Upper-division program elective** 3
- Elective* 3

Spring Semester (12-14 credits):
- BA A488  The Environment of Business 3
- CIOS A489  Systems Design and Implementation 3
- Upper-division program elective** 3
- Elective* 3
- Elective* 0-2

*100-level or higher in courses other than ACCT, BA, CIOS, ECON, or LOG.

** See approved list of upper-division program electives in this section.

**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.

- CIOS A110  Computer Concepts in Business 3
- CIOS A185  Introduction to Programming Business Applications 3
- CIOS A330  Database Management Systems 3
- CIOS A376**  Management Information Systems 3
- Upper-division CIOS electives** 6

**BBA degree students must take CIOS A310, and 3 credits of upper-division CIOS electives instead of CIOS A376 and A380 to meet the requirements for the minor (CIOS A376 and A380 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 CIOS. 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.
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.

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; and 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 Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees 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.

RECOMMENDED COURSE SEQUENCE

First Year
   - Fall Semester (15-16 credits):
     - Written Communications GER 3
     - COMM A111, A235, A237 or A241 3
     - Natural Science GER 3
     - MATH A270 or A107 or elective† 3-4
     - Humanities GER 3
   - Spring Semester (16 credits):
     - Written Communications GER 3
     - Humanities GER 3
     - Natural Science with lab GER 4
     - CIOS A110 or elective† 3
     - Elective* 3

Second Year
   - Fall Semester (15-16 credits):
     - ECON A201 Principles of Macroeconomics 3
     - MATH A272 or A200 3-4
     - Social Science GER 3
     - Elective* 3
     - Elective* 3
   - Spring Semester (15 credits):
     - ECON A202 Principles of Microeconomics 3
     - BA A273 Introduction to Statistics for Business and Economics 3
     - Fine Arts GER 3
     - Social Science GER 3
     - Elective* 3

Third Year
   - Fall Semester (15 credits):
     - ECON A321 Intermediate Microeconomics 3
     - ECON A350 Money and Banking 3
     - Upper-division elective 3
     - Upper-division elective 3
     - Elective* 3
   - Spring Semester (15 credits):
     - ECON A324 Intermediate Macroeconomics 3
     - Upper-division ECON elective 3
     - Upper-division elective 3
     - Upper-division elective 3
     - Elective* 3

Fourth Year
   - Fall Semester (15 credits):
     - ECON A412 or A430 3
     - Upper-division ECON elective 3
     - Upper-division elective 3
     - Upper-division elective 3
     - Elective* 3
   - Spring Semester (12-14 credits):
     - Upper-division ECON elective 3
     - Upper-division ECON elective 3
     - Upper-division elective 3
     - Upper-division elective 3
     - Elective* 0-2

* 100-level or higher
† This degree requires (MATH A200 or A272) and BA A273. Check catalog for prerequisites.

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

Stephen Colt, Assistant Professor, AFSGC@uaa.alaska.edu
Wayne Edwards, Assistant Professor
Lee Huskey, Professor, AFLH@uaa.alaska.edu
Pershing Hill, Associate Professor, AFPHJ@uaa.alaska.edu
Stephen Jackstadt, Prof/Dir CEE, AYCEE@uaa.alaska.edu
Paul Johnson, Associate Professor/Chair, AFPRJ@uaa.alaska.edu
Larry Ross, Professor, AFLLR@uaa.alaska.edu
The Department of Logistics 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’s competitive advances 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 worldwide 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 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.

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.

**Certificate in Logistics**

**Admission Requirements**

See Certificate and Associates Degree Program Admission Requirements in this catalog for admission requirement to the Certificate in Logistics program.

**Graduation Requirements**

Students must achieve a grade of "C" or better in all courses required for the certificate.

**Major Requirements**

1. Complete the following courses:
   - 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

2. Select three (3) credits from the following:
   - C10S A105 Introduction to PC Computers and Applications (3)
   - C10S A110 Computer Concepts in Business (3)
   - C10S A376 Management Information Systems (3)

3. Complete 15 credits of Selected Topics in Logistics (LOG A 290). Each topic must be approved by the student’s advisor and may not be repeated for credit, graded A-F:
   - LOG A290 Selected Topics in Logistics (1-3) 15

4. A total of 30 credits is required for this certificate.

* Instructor permission.

**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.

**Faculty**

William O. Hedgepeth, Assistant Professor  
Philip Price, Assistant Professor, AFPMP@uaa.alaska.edu  
Darren J. Prokop, Assistant Professor, AFDJP1@cbpp.uaa.alaska.edu
The College of Health, Education, and Social Welfare is comprised of the School of Education, the School of Nursing, the Division of Human Services and Health Sciences, the Justice Center, 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, and the Institute for Circumpolar Health Studies. Together, through multidisciplinary approaches, the schools, departments, centers, and institutes take direct action to address the needs and potentials of Alaska’s peoples and communities.

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 School of Education, in partnership with other colleges at the University, urban and rural educators, Alaska business and community groups, and the Alaska Department of Education and Early Development, prepares and supports professional educators. Our mission is to employ diverse ways of knowing, learning, and viewing the world in order to promote the intellectual, social, creative, emotional, and physical development of students, families, and communities. Through scholarship, service and teaching, we explore the richness and value of diversity, encourage lifelong learning to meet the challenges of a rapidly changing world, and contribute to educators’ understanding of development and learning.

In its mission to provide instruction, service, and research to the Alaska community, the School of Education offers curricula and programs designed to prepare personnel for various professional roles related to teaching in a variety of learning environments.

The School of Education is comprised of two departments: The Teacher Education Department with programs in early childhood, elementary, secondary, and special education, and, the Educational Development and Leadership Department with programs in adult education, counseling and guidance, and educational leadership. The School’s professional preparation programs are approved by the Alaska Department of Education and Early Development and meet the standards approved by the National Association of State Directors of Teacher Education and Certification.

The Alaska Department of Education and Early Development issues certificates under the “approved program” approach to certification. The University of Alaska Anchorage has the responsibility to recommend individuals to the Commissioner of Education and Early Development for certification after they successfully complete one or more of its approved programs. The Dean of the College of Health, Education, and Social Welfare is the only person authorized to endorse students for the appropriate certificate. The approved programs at the University of Alaska Anchorage are as follows:

**Undergraduate Programs**
- Elementary Education
- Elementary Teacher Certification Only
- Special Education Endorsement
- Early Childhood Development

**Graduate Programs**
- Elementary Education Counseling and Guidance
- Secondary Education Educational Leadership
- Middle School Education Principal K-12
- Educational Technology Superintendent
- Reading Specialist Special Education
- Early Childhood Education Early Childhood Special Education
- General Special Education

* For more information on the graduate programs please see the graduate section of the catalog.

All students desiring a degree or certification through an undergraduate or graduate program must apply for admission to the University of Alaska Anchorage and to the School of Education. Students must successfully complete the School 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.

The School also offers an early childhood development certificate and associate of applied science degree, and advanced preparation in professional education through our M.Ed. programs. For more information about our M.Ed. programs, refer to the graduate program section of the catalog.

In each of these curricula and programs, students are introduced to fundamental problems 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 the educational profession.
Students should be advised that total credits frequently exceed minimums because of prerequisite requirements, individually selected majors and minors, and areas of specialization and/or emphasis.

HIGH SCHOOL PREPARATION

All programs in the School of Education build upon the student’s strong content preparation. The following high school courses are recommended in preparation for admission to the School of Education:

a. English composition and writing
b. Verbal communication
c. World languages
d. Mathematics through algebra
e. Computer-related course work
f. Background in social sciences
g. Background in natural sciences

FIELD PLACEMENTS

Practica, internships, and other field placements are made only in cooperation with participating school districts. The school districts that work in cooperation with the School of Education reserve the right to request additional information and/or preparation from university students, per the district’s established policies/practices. Cooperating districts also determine the number of available spaces and placements for university students. Placements may become competitive if the number of applicants exceeds the number of spaces. Districts also reserve the right to refuse and/or terminate students who do not meet a minimum 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.

Students 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 Anchorage prior to being admitted to advanced practicum or internship, one of which is a requirement in every certification program.

EARLY CHILDHOOD DEVELOPMENT

Classroom Building K (K), Room 217, (907) 786-4401

The Early Childhood Development program at UAA brings together the theory and practice of quality child care and the education of young children. The program is based on the nationally recognized Child Development Associate (CDA). Easy and clear articulation occurs from the nontranscripted CDA credential to the campus awarded Early Childhood Development Certificate (31 credits) to the Associate of Applied Science in Early Childhood Development (61 credits).

CERTIFICATE, EARLY CHILDHOOD DEVELOPMENT

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter. In order to be admitted to the Early Childhood Development Program, students must complete an application to the Early Childhood Development Certification Program. Applications may be obtained from the School of Education. To be admitted to the Early Childhood Development practicum courses (ECD A295A and ECD A295B), students 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 students in the Early Childhood Development Certification 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

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter. In order to be admitted to the Early Childhood Development Program, students must complete an application to the Associate of Applied Science Early Childhood Development Program. Applications may be obtained from the School of Education. To be admitted to the Early Childhood Development practicum courses (ECD A295A and ECD A295B), students 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 students in the Associate of Applied Science Early Childhood Development Program must maintain a cumulative GPA of 2.0 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 requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECD A105</td>
<td>Introduction to the Field of Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>ECD A111</td>
<td>Safe Learning Environments</td>
<td>1</td>
</tr>
<tr>
<td>ECD A112</td>
<td>Healthy Learning Environments</td>
<td>1</td>
</tr>
<tr>
<td>ECD A113</td>
<td>Learning Environments</td>
<td>1</td>
</tr>
<tr>
<td>ECD A121</td>
<td>Physical Activities for Young Children</td>
<td>1</td>
</tr>
<tr>
<td>ECD A122</td>
<td>Cognitive Activities for Young Children</td>
<td>1</td>
</tr>
<tr>
<td>ECD A123</td>
<td>Communication</td>
<td>1</td>
</tr>
<tr>
<td>ECD A124</td>
<td>Creative Activities for Young Children</td>
<td>1</td>
</tr>
<tr>
<td>ECD A131</td>
<td>Guidance and Discipline</td>
<td>1</td>
</tr>
<tr>
<td>ECD A132</td>
<td>Social Development</td>
<td>1</td>
</tr>
<tr>
<td>ECD A211</td>
<td>Development of a Sense of Self</td>
<td>1</td>
</tr>
<tr>
<td>ECD A221</td>
<td>Families</td>
<td>1</td>
</tr>
<tr>
<td>ECD A222</td>
<td>Program Management</td>
<td>1</td>
</tr>
<tr>
<td>ECD A223</td>
<td>Exploring and Developing Personal Capabilities in Teaching</td>
<td>1</td>
</tr>
<tr>
<td>ECD A224</td>
<td>Professionalism</td>
<td>1</td>
</tr>
<tr>
<td>ECD A231</td>
<td>Screening</td>
<td>1</td>
</tr>
<tr>
<td>ECD A232</td>
<td>Assessment/Recording</td>
<td>1</td>
</tr>
<tr>
<td>ECD A233</td>
<td>Mainstreaming Preschool Children with Special Needs</td>
<td>1</td>
</tr>
<tr>
<td>ECD A295A</td>
<td>Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>ECD A295B</td>
<td>Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>DN A145</td>
<td>Child Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>PSY A245</td>
<td>Child Development</td>
<td>3</td>
</tr>
</tbody>
</table>

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, ELEMENTARY EDUCATION
(with teacher certification)

A student interested in undergraduate elementary teacher preparation may obtain either a B.A. in Elementary Education with elementary teacher certification or an Elementary Teacher Certification Only. Students interested in graduate-level elementary teacher preparation should refer to the graduate program section of the catalog.

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 which follows the local school district's calendar rather than the UAA calendar. Students are encouraged to take ED A101 Introduction to Education (3 credits) to learn more about the profession before declaring the major. 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 deadlines for internship placement consideration for the following semester are October 15 and March 15.

Practica, internships, and other field placements are made only in cooperation with participating school districts. The school districts that work in cooperation with the School of Education reserve the right to request additional information and/or preparation from university students, per the district’s established policies and practices. Cooperating districts also determine the number of available spaces and placements for university students. Placements may become competitive if the number of applicants exceeds the number of spaces. Districts also reserve the right to refuse and/or terminate students who do not meet a minimum standard of performance. Thus, while the University makes every effort to find appropriate field placements for students, admission 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 Pre-Major Status

See the admission to undergraduate programs section at the beginning of this chapter. Complete the UAA Undergraduate Application for Admission and the baccalaureate degree programs admission requirements. Application forms are available on the UAA website at: http://www.uaa.alaska.edu/enroll.

Admission to School of Education: Elementary Education Full Major Status

Admission to the School of Education is a prerequisite for all education course work with the exception of ED A101 Introduction to Education. In order to be admitted to the School of Education as a full Elementary Education major, students must:

a. Obtain and complete a Change of Major form in the School of Education;
b. Complete a minimum of 60 liberal studies credits, including all General Education Requirements, required for the degree (transfer credits may be used);

c. Have a cumulative GPA of 2.75;

d. Successfully complete the Praxis I exam. With the exception of ED A101 Introduction to Education, students may not enroll in education courses without passing this exam at the level established by the School of Education. Contact the School of Education for current passing scores;

e. Current negative TB skin test. Free tests are available at the UAA Student Health Center for current UAA students.

Admission to Internship: Elementary Methods and Internship Status

The School of Education Admission Committee has the responsibility of determining a student’s readiness to enroll in and continue progress in methods and the internship. The student must realize that standards set forth below constitute minimum preparation, and it may be the judgment of the Committee that the candidate needs further work to develop content, methodology, or classroom experience.

a. Meet all the requirements for and be admitted to the School of Education as an Elementary Education full major.

b. Submit an application form for admission to methods and internship status by the appropriate date: fall semester by March 15; spring semester by October 15.

c. One letter of recommendation from someone who can speak to the student’s potential as a future elementary teacher.

d. General content knowledge competency demonstrated through successful completion of all liberal studies course work and a passing score on Praxis II: Elementary Content Knowledge. Contact the School of Education for details.

e. Evidence of successful experiences working with children.

f. Interview (if Admission Committee decides it is necessary).

g. Fingerprinting and criminal background check.

h. Current physical exam and negative TB skin test. These services are available free at the UAA Student Health Center.

i. Student insurance maintained throughout internship. Students may purchase this insurance through UAA. Contact the School of Education for details.

ACADEMIC PROGRESS

All Elementary Education major courses, Special Education Emphasis courses, and Special Education Endorsement Only courses must be completed with a grade of “C” or higher in order to obtain an institutional recommendation for elementary teacher certification and special education endorsement.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. 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 the GER Oral Communication List

Select two courses from the GER Written Communication List

Lifetime Wellness (2 Credits):

PE A145 Principles of Health and Physical Activity

Liberal Studies Integrative Core (9 credits):

PHIL/LSIC A231 Truth, Beauty, and Goodness

LSIC A331 Power, Authority, and Governance

LSIC A332 Science, Technology, and Culture

Liberal Studies Integrated Sciences Core (16 credits):

LSIS A101 Discoveries in Science

LSIS A102 Origins: Earth-Solar System-Life

LSIS A201 Life on Earth

LSIS A202 Concepts and Processes: Natural Sciences

Mathematical Skills (9-13 credits):

MATH A205 Communicating Mathematical Ideas

AS A252 Elementary Statistics (3) or

AS A253 Applied Statistics for the Sciences (4)

MATH A107 College Algebra (4) or

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

HUM A212 Introduction to Humanities II

ENGL A201 Masterpieces of World Literature I (3) or

ENGL A202 Masterpieces of World Literature II (3)

Select one course from GER Fine Arts List

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, contact the School of Education, 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)* 3
or
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 each course.

a. 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 0/2
   or
   national educational technology assessment (Contact the School of Education for details).
   ED A303 Foundations of Teaching and Learning 3
   ED A482 Inclusive Classrooms for All Children 3

b. Complete the following method courses. Concurrent enrollment in an internship required. See Admission to Internship: Elementary Methods and Internship Status (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 Classroom Teachers 3
   ED A432 Physical Education for Elementary Classroom Teachers 1

c. 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)*

* Student must enroll in EDSE A495A if completing the Special Education Emphasis.

d. A total of 120 - 134 credits is required for the degree, of which 42 credits must be upper-division.

Institutional Recommendation - Elementary Teacher Certification

In order to obtain an institutional recommendation for elementary teacher certification,

a. All major requirements must be completed with a grade of "C" or higher;

b. Must have a cumulative GPA of 2.75.

c. Must have a cumulative GPA of 2.75 in all major requirements.

d. Must have passing scores on the Praxis I and II exams.

e. The School of Education’s educational technology assessment must be satisfactorily completed.

f. Internships must be satisfactorily completed.

g. The baccalaureate degree must be conferred.

B.A. ELEMENTARY EDUCATION, SPECIAL EDUCATION EMPHASIS

The Special Education Emphasis is designed for individuals who desire initial professional preparation in special education. Students successfully completing the B.A. in Elementary Education with the Special Education Emphasis will receive an institutional recommendation for elementary teacher certification as well as the special education endorsement.

a. Complete all requirements for the Bachelors of Arts in Elementary Education degree.

b. Complete the following emphasis courses (15 credits):
   EDSE A412 Curriculum & Strategies I: Low Incidence 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

c. A total of 135-149 credits is required for the degree, of which 42 credits must be upper division.

Institutional Recommendation - Special Education Endorsement

In order to obtain an institutional recommendation for the Special Education Endorsement:

a. All emphasis courses must be completed with a grade of "C" or higher;

b. Must have a cumulative GPA of 2.75 in the Special Education Emphasis courses;

c. Internships must be satisfactorily completed;

d. The baccalaureate degree with the emphasis must be conferred;

e. Must have a concurrent application for the Type A teaching certificate.

ELEMENTARY TEACHER CERTIFICATION ONLY-UNDERGRADUATE

Those students who already have a baccalaureate degree may obtain Elementary Teacher Certification Only by completing the following requirements, or by completing the Elementary Teacher Certification/Post-baccalaureate (contact the School of Education for details).
Admission to the School of Education: Elementary Teacher Certification Only Status

Admission to the School of Education is a prerequisite for all education course work with the exception of ED A101 Introduction to Education. In order to be admitted to the School of Education as an Elementary Teacher Certification Only candidate, students must meet the following requirements.

a. Obtain and complete a UAA Undergraduate Application for Admission. Application forms are available on the UAA website at: http://www.uaa.alaska.edu/enroll.

b. Obtain and complete a School of Education application for admission to the Elementary Teacher Certification Only program.

c. Have a cumulative grade point average of 2.75 for the baccalaureate degree.

d. Successfully complete the Praxis I exam. With the exception of ED A101 Introduction to Education, students may not enroll in education courses without passing this exam at the level established by the School of Education. Contact the School of Education for current passing scores.

e. Have a current negative TB skin test. Free tests are available at the UAA Student Health Center for current UAA students.

Admission to Internship: Elementary Methods and Internship Status

The School of Education Admission Committee has the responsibility of determining a student’s readiness to enroll in and continue progress in methods and the internship. The student must realize that standards set forth below constitute minimum preparation, and it may be the judgment of the Committee that the candidate needs further work to develop content, methodology, or classroom experience.

a. Meet all the requirements for and be admitted to the School of Education as an Elementary Teacher Certification Only candidate.

b. Submit an application form for admission to methods and internship status by the appropriate date: fall semester by March 15; spring semester by October 15.

c. One letter of recommendation from someone who can speak to the student’s potential as a future elementary teacher.

d. General content knowledge competency demonstrated through successful completion of a baccalaureate degree and a passing score on Praxis II: Elementary Content Knowledge. Contact the School of Education for details.

e. Evidence of successful experiences working with children.

f. Interview (if Admission Committee decides it is necessary).

g. Fingerprinting and criminal background check.

h. Current physical exam and negative TB skin test. These services are available free at the UAA Student Health Center.

i. Student insurance maintained throughout internship. Students may purchase this insurance through UAA. Contact the School of Education for details.

Elementary Teacher Certification Only - Course Requirements

It is recommended that students complete ED A101 Introduction to Education prior to enrolling in the following courses. Field experience in public schools required as part of each course.

A. 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

B. 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 0/2 or national educational technology assessment (See School of Education for details).
   - ED A303 Foundations of Teaching and Learning 3
   - EDSE A482 Inclusive Classrooms for All Children 3

C. Complete the following method courses. Concurrent enrollment in an internship required. See Admission to Internship: Elementary Methods and Internship Status (19 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 1
   - 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

D. Complete the following internships (9 credits):

   - ED A495A Internship I 3
   - ED A495B Internship II 6

Institutional Recommendation - Elementary Teacher Certification

In order to obtain an institutional recommendation for elementary teacher certification,

a. All certification course requirements must be completed with a grade of “C” or higher.

b. Must have a cumulative GPA of 2.75 in the Elementary Teacher Certification Only courses.

c. Must have passing scores on the Praxis I and II exams.

d. The School of Education’s educational technology assessment must be satisfactorily completed.

e. Internships must be satisfactorily completed.

Special Education Endorsement Only-Undergraduate

Students with a current Type A teaching certificate who desire initial professional preparation in special education may obtain a special education endorsement by completing the following requirements.

a. Obtain and complete a UAA Undergraduate Application for Admission. Application forms are available on the UAA website at: http://www.uaa.alaska.edu/enroll.

b. Obtain and complete a School of Education application to the Special Education Program. Students may be required to complete prerequisite course work. Contact the School of Education for details.

c. Must have a cumulative GPA of 2.75 for the baccalaureate degree.

d. Have a current negative TB skin test.
Special Education Endorsement Only - Course Requirements
Field experience in public schools required as part of each course. Prior to enrolling in EDSE A495A Internship in Special Education, complete the School of Education application to the internship. Complete the following courses (24 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSE A482</td>
<td>Inclusive Classrooms for All Children</td>
<td>3</td>
</tr>
<tr>
<td>EDSE A412</td>
<td>Curriculum &amp; Strategies I: Low Incidence</td>
<td>3</td>
</tr>
<tr>
<td>EDSE A483</td>
<td>Language &amp; Literacy: Assessment &amp; Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EDSE A484</td>
<td>Collaboration &amp; Partnerships between Parents &amp; Professionals</td>
<td>3</td>
</tr>
<tr>
<td>EDSE A410</td>
<td>Assessing Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDSE A422</td>
<td>Curriculum &amp; Strategies II: High Incidence</td>
<td>3</td>
</tr>
<tr>
<td>EDSE A495A</td>
<td>Internship in Special Education</td>
<td>6</td>
</tr>
</tbody>
</table>

Institutional Recommendation - Special Education Endorsement
In order to obtain an institutional recommendation for the Special Education Endorsement,

a. All endorsement course requirements must be completed with a grade of “C” or higher.

b. Must have a cumulative GPA of 2.75 in the Special Education Endorsement courses.

c. All internships must be satisfactorily completed.

d. The School of Education’s educational technology assessment must be satisfactorily completed.

PHYSICAL EDUCATION
The Health, Outdoor, and Physical Education Program is revising curriculum to meet current State and national standards. Contact the School of Education at (907) 786-4401

FACULTY
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SCHOOL OF NURSING
nursing.uaa.alaska.edu/son/
Classroom Building K (K), 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
See Certificate Admission Requirements at the beginning of this chapter.

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 the ASSET or equivalent 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. Reading placement score of 39 or higher on the ASSET test;
3. Math placement score of 42 or higher on the ASSET 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) or BIOL A111 Human Anatomy and Physiology I 4
   - BIOL A112 Human Anatomy and Physiology II 3
   - NUPN A110 Adult Medical-Surgical Nursing for Practical Nurses 3/8
   - 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 37-42 credits is required for the certificate.

**Recommended Course Sequence:**

**Spring Semester**
- 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

**Summer Term**
- NUPN A110 Adult Medical-Surgical Nursing for Practical Nurses 5
- NUPN A110L Adult Medical-Surgical Nursing for Practical Nurses Lab 3
- NUPN A115 Concepts in mental Health for Practical Nurses OR
- 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

**Fall Term**
- NUPN A110 Adult Medical-Surgical Nursing for Practical Nurses 5
- NUPN A110L Adult Medical-Surgical Nursing for Practical Nurses Lab 3
- NUPN A115 Concepts in mental Health for Practical Nurses 1
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 pre-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 sciences 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 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.

RECOMMENDED COURSE SEQUENCE

Fall Semester
- NURS A120/L Nursing Fundamentals/Lab 7
- ENGL A111 Methods of Written Communication 3
- BIOL A111 Anatomy and Physiology 4
- PSY A150 Life Span Development 3

Spring Semester
- NURS A125/L Adult Nursing I/Lab 7
- NURS A180 Basic Nursing Pharmacology 3
- BIOL A112 Anatomy and Physiology 4
- BIOL A240 Microbiology 4

Fall Semester
- NURS A220/L Perinatal Nursing/Lab 4
- NURS A221 Advanced Parenteral Therapy Lab 1
- NURS A222/L Pediatric Nursing 4
- DN A203 Normal Nutrition 3
- ENGL A211, 212, or 213 (Written Communication) 3
- Social Science General Education Requirement 3

Spring Semester
- NURS A225/L Adult Nursing II/Lab 6
- NURS A250/L Psychiatric Nursing/Lab 4
- NURS A255 The Staff Nurse 1
- Oral Communication 3
- General Education Requirement 3

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 055 (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 experiences 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 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 may select either the LPN Challenge Examination track or the LPN Role Transition track.

**LPN Challenge Examination Track:** This track enables LPNs to receive university credit for 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 Pediatric 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

2. A total of 70 credits is required for the degree.

**LPN Role Transition Track:** This track enables LPN students to build upon previously acquired knowledge and skills through completion of a variety of structured learning experiences in classroom, clinical, and laboratory settings.

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 A150 Nursing Role Transition for LPN 8
   - 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.
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.

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, a 200-level English composition course will be substituted. 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.
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 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 A402, NS A402L, NS A402S; NS A406, NS A406L; NS A407, NS A407L; 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 Baccalaureate Degrees listed at the beginning of this chapter.

**B. GENERAL EDUCATION REQUIREMENTS**

Complete the baccalaureate general education requirements listed at the beginning of this chapter. In the Nursing program, some required prerequisite courses fulfill general education requirements.

**C. MAJOR REQUIREMENTS**

1. Complete all 44 credits of support courses for the Nursing Science major with a grade of “C” or better. Courses marked with an asterisk (*) must be completed prior to admission to clinical nursing courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS A252</td>
<td>Elementary Statistics (3)</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AS A307</td>
<td>Probability and Statistics (3)</td>
<td></td>
</tr>
<tr>
<td>*BIOL A111</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>*BIOL A112</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>*BIOL A240</td>
<td>Introductory Microbiology for Health</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sciences</td>
<td></td>
</tr>
<tr>
<td>*CHEM A103/L</td>
<td>Survey of Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>*CHEM A104/L</td>
<td>Introduction to Organic Chemistry and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biochemistry</td>
<td></td>
</tr>
<tr>
<td>*DN A203</td>
<td>Normal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td><em>Reasoning Skills:</em>*</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGL A120, or PHIL A101, or PHIL A201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*ENGL A213</td>
<td>Writing in the Social and Natural</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Sciences</td>
<td></td>
</tr>
<tr>
<td>PHIL A302</td>
<td>Biomedical Ethics</td>
<td>3</td>
</tr>
<tr>
<td><em>PSY A150</em>*</td>
<td>Life Span Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY or SOC General Education Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>**ANTH or ECON General Education</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   *Must be in addition to the required General Education Requirements.

2. Nursing Courses: Complete required nursing courses for the Nursing Science major (64 credits). Courses marked with an asterisk (*) must be completed prior to admission to clinical nursing courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS A204</td>
<td>Technology and Nursing Informatics</td>
<td>3</td>
</tr>
<tr>
<td>NS A216</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>NS A300</td>
<td>Foundations of Nursing I</td>
<td>3</td>
</tr>
<tr>
<td>NS A303</td>
<td>Foundations of Nursing II</td>
<td>3</td>
</tr>
<tr>
<td>NS A303L</td>
<td>Foundations of Nursing II Lab</td>
<td>4</td>
</tr>
<tr>
<td>NS A309</td>
<td>Pharmacology in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NS A313</td>
<td>Health Disruptions I</td>
<td>2</td>
</tr>
<tr>
<td>NS A313L</td>
<td>Health Disruptions I Lab</td>
<td>3</td>
</tr>
<tr>
<td>NS A315</td>
<td>Health I: Nursing Therapeutics</td>
<td>2</td>
</tr>
<tr>
<td>NS A315L</td>
<td>Health I: Nursing Therapeutics Lab</td>
<td>3</td>
</tr>
<tr>
<td>NS A318</td>
<td>Professional and Legal Perspectives in</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Nursing</td>
<td></td>
</tr>
<tr>
<td>NS A319</td>
<td>Research in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NS A401</td>
<td>Health Disruptions II</td>
<td>2</td>
</tr>
<tr>
<td>NS A401L</td>
<td>Health Disruptions II Lab</td>
<td>3</td>
</tr>
<tr>
<td>NS A402</td>
<td>Health II: Nursing Therapeutics</td>
<td>2</td>
</tr>
<tr>
<td>NS A402L</td>
<td>Health II: Nursing Therapeutics Lab</td>
<td>3</td>
</tr>
<tr>
<td>NS A402S</td>
<td>Health II: Nursing Therapeutics Seminar</td>
<td>1</td>
</tr>
<tr>
<td>NS A406</td>
<td>Complex Care</td>
<td>2</td>
</tr>
<tr>
<td>NS A406L</td>
<td>Complex Care Lab</td>
<td>2</td>
</tr>
<tr>
<td>NS A415</td>
<td>Nursing Management</td>
<td>3</td>
</tr>
<tr>
<td>NS A416</td>
<td>Concentration in Clinical Nursing</td>
<td>3.5</td>
</tr>
<tr>
<td>NS A416L</td>
<td>Concentration in Clinical Nursing Lab</td>
<td></td>
</tr>
</tbody>
</table>

   Nursing elective (upper-division) 3

3. A total of 126 credits is required for the degree; 42 credits must be upper-division.
### Recommended Course Sequence

Each student’s pre-major course schedule sequence may vary according to initial entry level into University General Education Requirements (GERs) and prerequisite courses such as Math, English, and Chemistry. Additionally, the date of entrance into the Nursing Major will determine the length of time needed to complete the BS degree program. All Nursing courses must be completed according to the specified sequence.

#### First Year

**Semester I Pre-major**
- ENGL A111 Methods of Written Communication
- BIOL A111 Anatomy and Physiology I
- CHEM A103/L Survey of Chemistry/Lab
- Psychology or Sociology

**Semester II Pre-major**
- ENGL A213 Writing in the Social and Natural Sciences
- BIOL A112 Anatomy and Physiology II
- CHEM A104/L Organic and Biochemistry
- PHIL A101, A201, OR ENGL A120 Social Science (GER)

#### Second Year

**Semester I Pre-major**
- BIOL A240 Introductory Microbiology for Health Sciences
- PSY A150 Life Span Development
- Fine Arts (GER)
- Anthropology or Economics (GER)
- Humanities (GER)

**Semester II Major**
- NS A204 Technology and Nursing Informatics
- NS A216 Pathophysiology
- AS A252 Elementary Statistics
- DN A203 Normal Nutrition
- Humanities (GER)

#### Third Year

- NS A300 Foundations of Nursing I
- NS A303 Foundations of Nursing II
- NS A303L Foundations of Nursing II Lab
- NS A309 Pharmacology in Nursing
- NS A318 Professional and Legal Perspectives in Nursing
- NS A313 Health Disruptions I
- NS A313L Health Disruptions I Lab
- NS A315 Health I: Nursing Therapeutics
- NS A315L Health I: Nursing Therapeutics Lab

#### Fourth Year

- NS A401 Health Disruptions II
- NS A401L Health Disruptions II Lab
- NS A406 Complex Care
- NS A406L Complex Care Lab
- PHIL A302 Biomedical Ethics or
- NS A319 Research in Nursing
- NS A402 Health II: Nursing Therapeutics
- NS A402L Health II: Nursing Therapeutics Lab
- NS A402S Health II: Nursing Therapeutics Seminar
- NS A415 Nursing Management
- NS A416 Concentration in Clinical Nursing
- NS A416L Concentration in Clinical Nursing Lab
- NS Elective

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### 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, a 200-level English composition course will be substituted. 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 Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the baccalaureate general education requirements 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)  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  4  
   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 II Lab  4  
   NS A313 Health Disruptions I  2  
   NS A313L Health Disruptions I Lab  3  
   NS A401 Health Disruptions II  2  
   NS A401L Health Disruptions II Lab  3

An administrative fee will charged for these credits. To receive credits, the student must complete the appropriate form with a Nursing advisor. Contact the School of Nursing (907)786-4550 for further information.

2. Nursing courses for academic credit: Complete the following required nursing courses within the Nursing Science major (34 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 A319 Research in Nursing  3  
   NS A402 Health II: Nursing Therapeutics  2  
   NS A402L Health II: Nursing Therapeutics Lab  2  
   NS A402S Health II: Nursing Therapeutics Seminar  1  
   NS A406 Nursing Therapeutics in Complex Health Disruptions  2  
   NS A406L Nursing Therapeutics in Complex Health Disruptions Lab  2  
   NS A417 Management in Nursing  3  
   Nursing electives (upper-division)  6  

3. Complete elective credits to total 126 credits.  4

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

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Pamela Wilde, Associate Professor, AFPAW@uaa.alaska.edu
DIVISION OF HUMAN SERVICES
AND HEALTH SCIENCES

The Division of Human Services and Health Sciences (DHSHS) is an academic division of the College of Health, Education, and Social Welfare that provides administrative support for the Associate of Applied Science Degree, the Bachelor of Human Services Degree, the Bachelor of Science in Health Sciences Degree, and the Minor in Addiction Studies. The Bachelor of Science in Health Sciences degree offers a specialization in Physician Assistant training in collaboration with the University of Washington’s MEDEX Northwest Physician Assistant Program. Students who successfully complete MEDEX Northwest achieve a Physician Assistant (PA) Certificate from the University of Washington and, upon successful completion of requirements at UAA, are awarded a Bachelor of Science in Health Sciences degree.

The Division also fosters and advances the health mission of the University of Alaska, and supports the research mission of the University through opportunities for research collaboration with the Institute for Circumpolar Health Studies, the Center for Alcohol and Addiction Studies, and the Alaska Center for Rural Health.

HUMAN SERVICES

www.uaa.alaska.edu/hums/
Beatrice McDonald Building (BMB), 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 and Psychology. The program also offers specialized areas in alcohol and substance abuse, disabilities, diversity issues and family and youth. These are coordinated with practicum placements to give students first hand experience in their desired specialty.

The Minor in Addiction Studies is administered by the Human Services Department. 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.

ASSOCIATE OF APPLIED SCIENCE, HUMAN SERVICES
ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

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 requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses (29 credits):
   - ANTH A200 Natives of Alaska (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 A262 Human Services Practicum I (4)
   - HUMS A263 Human Services Practicum II (4)
   - HUMS A324 Introduction to Paraprofessional Counseling II (3)
   - PSY A111 General Psychology (3)
   - PSY A150 Life Span Development (3)
2. 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 A150 Marriage, Divorce and Intimate Relationships in the 90’s (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)
   - 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 A150 Marriage, Divorce and Intimate Relationships in the 90’s (3)
   - HUMS A231 Applied Behavioral Analysis I (2)
   - HUMS A232 Applied Behavioral Analysis II (2)
   - HUMS A350 Men and Masculinity (3)
   - PSY A245 Child Development (3)
   - SOC A242 An Introduction to Marriage, Family and Intimate Relationships (3)
   - SOC A246 Adolescence (3)
Disabilities Emphasis
Complete 6 credits from the following:
- ASL A101 Elementary 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:
- 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 A150 Marriage, Divorce and Intimate Relationships in the 90’s (3)
- HUMS A350 Men and Masculinity (3)
- WS A200 Introduction to Women’s Studies (3)

3. Choose 16 credits of electives. Consultation with faculty advisor recommended.
4. A total of 60 credits is required for the degree.

**Recommended Course Sequence**

First Semester
- ENGL A111 Methods of Written Communication
- COMM A111, A235, A237, or A241
- HUMS A101 Introduction to Human Services
- HUMS A223 Introduction to Paraprofessional Counseling I
- SOC A101 Introduction to Sociology

Second Semester
- HUMS/SWK A106 Introduction to Social Welfare
- PSY A111 General Psychology
- PSY A150 Life Span Development
- Major Speciality Emphasis course
- *GER (General Education Requirement)

Third Semester
- ANTH A200 or A202
- ENGL A211, A212, A213 or CIOS A262***
- HUMS A324 Introduction to Paraprofessional Counseling II
- HUMS A262 Human Services Practicum I
- Major Speciality Emphasis course

Fourth Semester
- **Elective/GER
- **Elective/GER
- **Elective/GER
- **Elective/GER
- HUMS A263 Human Services Practicum II

* General Education Requirements- 6 credits must be taken from one or a combination of Humanities, Math, Natural Science, or Social Sciences courses.
** 16 credits of elective is required. For students intending to pursue a Bachelor of Human Services degree after completing the Associate of Applied Science degree, we recommend taking electives that will meet GER requirements and that can be applied to the BHS, BSW, BA or BS degrees. See UAA catalog for approved GER list.

**Bachelor of Human Services**

**Admission Requirements**
Complete the Baccalaureate Degree Programs Admissions Requirements at the beginning of this chapter. 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 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 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
   - SWK A343 Human Behavior: Diversity and Discrimination 3
   - SWK A481 Case Management in Social Work Practice 3
   *Note: Can not be used in emphasis areas.

2. Complete 12 credits from one of the emphasis areas listed in the AAS.**

   **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.
**RECOMMENDED COURSE SEQUENCE**

**NOTE:** The Bachelor of Human Services (BHS) is a two-plus-two degree. Students must complete an Associate of Applied Science degree in Human Services from UAA or an accredited institution recognized by UAA to be considered for upper-division practica courses.

**First Semester**
- General Education Requirement (GER)
- General Education Requirement (GER)
- HUMS A333 Alternative Dispute Resolution
- HUMS A417 Substance Abuse Counseling for Human Services Professionals
- SWK A481 Case Management in Social Work Practice

**Second Semester**
- General Education Requirement (GER)
- Major Specialty Emphasis course
- HUMS A424 Advanced Counseling for Human Services Professionals
- HUMS A434 Group Facilitation for Human Service Professionals
- SWK A343 Human Behavior: Diversity and Discrimination

**Third Semester**
- General Education Requirement (GER)
- Major Specialty Emphasis course
- HUMS A412 Ethical Issues in Human Services Practices
- HUMS A461 Crisis Intervention
- HUMS A462 Human Services Practicum III

**Fourth Semester**
- General Education Requirement (GER)
- General Education Requirement (GER)
- General Education Requirement (GER)
- HUMS A414 Rural Treatment Strategies for Human Services Professionals
- HUMS A463 Human Services Practicum IV

**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 social work, human services, 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.

1. Complete the following required courses:
   - HUMS A122 Substance Abuse as a Contemporary Problem 3
   - HS/PSY A350 Drugs and Drug-Taking Behavior 3
2. Complete 12 credits from the following:
   - HS/PSY A381 Substance Abuse Treatment (3)
   - HS/PSY A480 Contemporary Issues in Addiction Studies (1-3)
   - HUMS A123 Public Education and Prevention in Substance Abuse (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**

Helen Johnson, Assistant Professor, AFHSJ@uaa.alaska.edu
Laura Kelley, Professor, AFLWK@uaa.alaska.edu
Cheryl Mann, Professor, mann@uaa.alaska.edu
Michael McKeown, Professor, AFMPM@uaa.alaska.edu
HEALTH SCIENCES

Diplomacy Building (DPL), Suite 530, (907) 786-6582

BACHELOR OF SCIENCE, HEALTH SCIENCES

The Bachelor of Science in Health Sciences degree program is currently undergoing review. There may be significant curriculum changes. Please contact the Department for more information.

ADMISSION REQUIREMENTS

The Bachelor of Science in Health Sciences degree with a specialization in Physician Assistant is awarded in connection with the MEDEX Northwest Physician Assistant Program. Students are admitted concurrently to UAA and to the MEDEX Northwest Certificate Program.

Complete the Baccalaureate Degree Program Admission Requirements stated at the beginning of this chapter. Required courses may be taken through any of the University of Alaska campuses or through distance delivery programs.

MEDEX Northwest Physician Assistant Program

The Physician Assistant Program requires admission at both the University of Alaska Anchorage and the MEDEX Northwest Program, University of Washington School of Medicine. Up to six students from Alaska are admitted to the program annually, in accordance with the joint selection process established in the cooperative agreement between the two universities. For B.S. degree students, the two-year MEDEX Northwest Physician Assistant Program is completed during their junior and senior years of study. To be eligible for admission to MEDEX Northwest Program, students must have completed, prior to their junior year, at least two college level English composition courses, a human anatomy and physiology course of at least 10 quarter credits, and one other college level science course in a discipline relevant to basic medical services (e.g., biology or chemistry). Prior to admission, MEDEX Northwest also requires two years or 4,000 hours of clinical work experience (not gained as part of a formal training program), and successful completion of a rigorous interview and selection process.

Students accepted into the MEDEX program spend the first year of the PA program at the University of Washington, where they receive intense clinical and didactic instruction. The senior year takes place in Alaska, consisting of practicum placement. This practicum year corresponds to UW’s year of field placement and supervision, beginning in September and ending in mid-August 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.

In certain cases, students who meet the general MEDEX prerequisites may be admitted to the program provided that they have completed the prerequisites described below. Examples of special cases are students with strong preceptorship and employment commitments in under-served regions of Alaska and highly experienced medical personnel, such as community health aides/practitioners, military corpsmen and mobile-ICU EMT/paramedics whose extensive prior training may not easily convert to university-level academic credit. Such students are encouraged to complete the baccalaureate degree upon completion of the PA training program and to practice in Alaska.

Six Alaskan students will be admitted to the MEDEX program each year. In addition to overall academic performance in the pre-physician assistant curriculum, applicants are evaluated on their previous clinical experience and their commitment to practice in Alaska, particularly in under-served areas. Applicants who are being considered for selection are interviewed at one of the Washington training sites by MEDEX faculty, UAA health science faculty and practicing PAs. Students accepted into the PA program will be considered full-time students at both UAA and UW.

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. If all UAA degree requirements are met successfully (see below), the University of Alaska Anchorage awards a Bachelor of Science degree in Health Sciences.

ACADEMIC PROGRESS

Complete each MEDEX Northwest course with a minimum grade of B- (UW’s grading system) in order to receive the University of Washington MEDEX Northwest Physician Assistant Certificate.

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degree Programs described 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. Students are encouraged to coordinate their course work selection with their program advisor to review their program of study.

C. MAJOR REQUIREMENTS

1. Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL A111</td>
<td>Methods of Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENGL A212</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>BIOL A111/L</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL A112/L</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>PSY A111</td>
<td>General Psychology (3) or</td>
<td>3</td>
</tr>
<tr>
<td>PSY A150</td>
<td>Life Span Development (3)</td>
<td></td>
</tr>
<tr>
<td>HS A490</td>
<td>Selected Topics</td>
<td></td>
</tr>
<tr>
<td>HS A610</td>
<td>Health Care Issues in Alaska</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Complete one additional science course required by the MEDEX program:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM A103/L</td>
<td>Survey of Chemistry (4)</td>
<td></td>
</tr>
<tr>
<td>BIOL A102</td>
<td>Introduction to Biology (3)</td>
<td></td>
</tr>
<tr>
<td>BIOL A240/L</td>
<td>Microbiology (4)</td>
<td></td>
</tr>
</tbody>
</table>

University of Alaska Anchorage 2002-2003 Course Catalog
www.uaa.alaska.edu
3. Students accepted to the UAA B.S. degree program and MEDEX Northwest must satisfactorily complete Physician Assistant courses listed below at the University of Washington in the junior year. The University of Washington is on a quarter system. Quarter credits have been converted to semester credits by multiplying quarter credits by two-thirds.

   MEDEX 452 Basic Clinical Pathology for the MEDEX Practitioner 4
   MEDEX 453 Basic Clinical Skills for the MEDEX Practitioner 4
   MEDEX 454 Adult Medicine I 4
   MEDEX 455 Adult Medicine II 4
   MEDEX 456 Maternal & Child Health for the MEDEX Practitioner 2
   MEDEX 457 Behavioral Science Skills for the MEDEX Practitioner I 2
   MEDEX 458 Behavioral Science Skills for the MEDEX Practitioner II 2
   MEDEX 459 Behavioral Science Skills for the MEDEX Practitioner III 2
   MEDEX 460 Principles of Patient Management for the MEDEX Practitioner I 2
   MEDEX 461 Principles of Patient Management for the MEDEX Practitioner II 2
   MEDEX 462 Maternal & Child Health for the MEDEX Practitioner II 2
   MEDEX 468 Emergency Medicine I 2
   MEDEX 469 Emergency Medicine II 2

4. Students must also complete the following Physician Assistant courses at the University of Alaska Anchorage (senior year):

   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

5. A total of 120-121 credits is required for the degree, of which 42 credits must be upper division.

FACULTY

Bernard Segal, Program Director, AFBOS1@uaa.alaska.edu

JUSTICE

www.uaa.alaska.edu/just
College of Arts & Sciences Building (CAS), 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.

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 Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees 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 (52 credits):
   - AS A252 Elementary Statistics 3
   - JUST A110 Introduction to Justice 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
   - JUST A451 Research and Policymaking 4
   - Upper-division Justice electives 15
   - **Humanities electives 6
   - ***Justice electives, any level 6

   **Select courses from the General Education Requirements located at the beginning of this chapter (must be in addition to the 6 credit Humanities General Education Requirement). Substitutions may be made with advisor approval.

   ***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. A total of 120 credits is required for the degree of which 48 credits must be upper-division.

RECOMMENDED COURSE SEQUENCE

The Justice BA requires the completion of a minor.

First Year
Fall Semester
   - JUST A110 Introduction to Justice 3
   - Oral Communication 3
   - Written Communication 3
   - Humanities 3
   - Humanities 3

Spring Semester
   - JUST A251 Criminology 3
   - Written Communication 3
   - Humanities 3
   - JUST A221 Justice Organization and Management 3
   - Minor 3

Second Year
Fall Semester
   - JUST A250 Development of Law 3
   - JUST elective (any Level) 3
   - JUST elective (any Level) 3
   - Social Sciences 3
   - Minor 3

Spring Semester
   - JUST A330 Justice & Society 3
   - AS A252 Elementary Statistics (required) 3
   - JUST Upper-division elective 3
   - JUST Upper-division elective 3
   - Social Sciences 3

Third Year
Fall Semester
   - JUST A360 Justice Processes 3
   - JUST Upper-division elective 3
   - JUST Upper-division elective 3
   - Minor 3
   - Minor 3

Spring Semester
   - JUST A451 Research and Policy Making 4
   - JUST Upper-division elective 3
   - Upper-division elective 3
   - Natural Science 3
   - Natural Science 1
   - Fine Arts 3

Fourth Year
Fall Semester
   - Elective (any level) 3
   - Upper-division elective 3
   - Upper-division Minor course 3
   - Upper-division Minor course 3
   - Humanities 3

Spring Semester
   - Elective (any level) 3
   - Elective (any level) 3
   - Upper-division elective 3
   - Upper-division Minor course 3
   - Natural Science 3

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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Robert Congdon, Professor, AFREC@uaa.alaska.edu
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Lawrence Trostle, Associate Professor, AFLCT@uaa.alaska.edu
Darryl Wood, Associate Professor, AFDSW@uaa.alaska.edu
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 on the Goose Lake campus (Anchorage) before completing 12 credits of the paralegal core curriculum. Special admission requirements for this certificate are enforced and certificates cannot be completed at extended campuses. Certain courses required for the certificate must be taken only at the Goose Lake 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, A311, A312, or A414) with a minimum grade of “B” in each class.
2. Complete the following required core courses (31 credits):
   - PARL A101 Introduction to Law
   - PARL A215 Paralegal Studies
   - PARL A235 Factual Investigation and Interviewing
   - PARL A236 Ethics and Paralegals
   - PARL A238 Civil Procedure
   - PARL A256 Legal Research I
   - PARL A352 Substantive Criminal Law (3) or PARL A354 Criminal Procedure (3)
   - PARL A362 Commercial Law (3) or other upper division law course from Justice curriculum with paralegal coordinator approval
   - PARL A375 Litigation
   - PARL A456 Advanced Legal Analysis and Writing
   - PARL A470 Law of Government Regulation
   - JUST A485 Internship (1-6)
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.
4. Complete 3 credits of any elective at the 100-level or above.
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/legal assistants, who are authorized to perform substantive legal work under the supervision of an attorney. The program does not train lawyers or legal administrators.

RECOMMENDED COURSE SEQUENCE

Paralegal Certificate and Associate of Arts Degree

First Year

Fall
   - PARL A101 Introduction to Law
   - PARL A215 Paralegal Studies
   - ENGL A111 Methods of Written Communication (“B” or better is required in this course)
   - Humanities
   - Natural Science

Spring
   - PARL A235 Factual Investigation & Interviewing
   - PARL A236 Ethics & Paralegals
   - PARL A238 Civil Procedure
   - ENGL A211 Academic Writing About Literature or (ENGL A212, A213, A311, A312, A414) (“B” or better required in this course)
   - COMM A111 Fundamentals of Oral Communication
### Second Year

**Fall Semester**
- PARL A256: Legal Research I 3
- PARL: Elective 3
- PARL A470: Law of Government Regulations 3
- Social Science 3
- Natural Science 3

**Spring Semester**
- PARL A456: Advanced Legal Analysis & Writing 4
- PARL A375: Litigation 3
- Humanities 3
- Social Science 3
- Fall, Spring or Summer Semester (6 Credits)
- JUST A495: Internship 3
- Social Science 3

### Recommended Course Sequence

**Paralegal Certificate Only (Prior BA or Associate of Arts completed)**

#### First Year

**Fall Semester**
- PARL A101: Introduction to Law 3
- PARL A215: Paralegal Studies 3

**Spring Semester**
- PARL A235: Factual Investigation & Interviewing 2
- PARL A236: Ethics & Paralegals 1
- PARL A238: Civil Procedure 3
- PARL: Elective 3

#### Second Year

**Fall Semester**
- PARL A256: Legal Research I 3
- PARL A470: Law of Government Regulations 3

**Spring Semester**
- PARL A456: Advanced Legal Analysis & Writing 4
- PARL A375: Litigation 3
- Fall, Spring or Summer Semester (3 Credits)
- JUST A495: Internship 3

### Faculty

Robert Langworthy, Director/Professor, AFRHL@uaa.alaska.edu  
Allan Barnes, Professor, AFARB@uaa.alaska.edu  
Robert Congdon, Professor, AFREC@uaa.alaska.edu  
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Deborah Periman, Assistant Professor, AFDKP@uaa.alaska.edu  
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Nancy Schafer, Professor, AFNES@uaa.alaska.edu  
Laurence Trostle, Associate Professor, AFLCT@uaa.alaska.edu  
Darryl Wood, Associate Professor, AFDSW@uaa.alaska.edu

### Social Work

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 client-centered problem solving, 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 change efforts with human systems and social problems.
- Social work practice recognizes human diversity as a primary element.
- Social work practice is based on professional values.
- Social work practice is based on professional relationships.
- Social work practice is based on reciprocal role performance.

Social work education engages the student in carefully planned experiences to achieve the knowledge, skills, and attitudes necessary for beginning professional competence. These experiences take place in the classroom, laboratory, volunteer experience, small seminars, and selected field work practicum placements. The practicum placement (SWK A461A and A462A/B) 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 who declare a social work major and who qualify for admission to baccalaureate study will be admitted to pre-major status. Social work pre-major status does not guarantee full admission to the Social Work program. Students must apply for full admission to the Social Work program during the fall semester prior to their eligibility for fieldwork courses, SWK A461A/B and SWK A462A/B. Full admission to the Social Work Program is based upon the requirements listed below.

Credits earned through other CSWE accredited social work programs can 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.
REQUIREMENTS FOR FULL ADMISSION TO THE SOCIAL WORK PROGRAM

To apply for full admission to the Social Work Program, students must complete:

1. University General Education Requirements (34 credits).
2. Additional Liberal Arts Foundation courses (21 credits). A grade of “C” or better must be earned in the following courses:
   - ANTH A200, or ANTH A202
   - BA A151 or ECON A201
   - CIOS A105
   - ENGL A311, A312, or A414
   - ENGL A121 or A201 or A302 or A305 or A306 or A307
   - ENGL A120 or PHIL A101 or A201 or A301 or A421
   - SOC A201 or JUST A110
3. The following Social Work courses with a grade of “C” or better (18 credits): SWK A106, SWK A306, SWK A324, SWK A342, SWK A343, and SWK A360.

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 (SWK A461A/B) for fall enrollment.
3. A Student Practicum Interest sheet.
4. A Change of Major form requesting change of admission status from pre-major to full major.

Students participate in an interview with faculty 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) completion of the requirements listed above, 2) demonstration of beginning competence in client-centered communication skills developed in SWK A360, documented in videotaped simulated interviews, and 3) availability of departmental faculty resources to insure a quality educational experience.

The BSW Practicum Coordinator will make reasonable efforts to place all admitted BSW students in Field practicum. Placement is dependent upon availability of resources in the community and in the department. Additionally, acceptance into the BSW program does not guarantee acceptance by cooperating practicum settings.

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 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.

Note: In selecting GER courses, students should take HIST A101, A102, SOC A101, PSY A150 and courses which include human biology course content (BIOL A102, A105, A106, A111, A112, A113, A114) which are specific prerequisites required in order to register in SWK A106, A306, and A342. ENGL A213 is also highly recommended.

C. MAJOR REQUIREMENTS

1. Complete the following liberal arts foundation courses (21 credits), choosing one course if more than is one listed:
   - ANTH A200 or A202
   - CIOS A105
   - BA A151 or ECON A201
   - ENGL A311, A312, or A414
   - ENGL A121 or A201 or A302 or A305 or A306 or A307
   - ENGL A120 or PHIL A101 or A201 or A301 or A421
   - SOC A201 or JUST A110

   The following courses are required only if they are not taken to satisfy GER requirements (as noted above):
   - SOC A101
   - PSY A150
   - One of the following: BIOL A102 or A105 or A106 or A111 or A112, or A113, or A114
   - HIST A101
   - HIST A102

2. Complete the following required core courses (48 credits):
   - SWK/HUMS A106 Introduction to Social Welfare
   - SWK A306 Introduction to Social Work
   - SWK A324 Social Work Research with Statistical Application
   - SWK A342 Human Behavior in the Social Environment
   - SWK A343 Human Behavior: Diversity and Discrimination
   - SWK A360 Introduction to Generalist Social Work Practice
   - SWK A406 Social Welfare: Policies and Issues
   - SWK/SOC A407 Formal Organizations
   - SWK A461A Social Work Practice I
   - SWK A461B Social Work Practicum I
   - SWK A462A Social Work Practice II
   - SWK A462B Social Work Practicum II
   - Upper-division Social Work electives

3. Complete electives to total 120 credits.
4. A total of 120 credits is required for the degree, of which 48 must be upper-division.
RECOMMENDED COURSE SEQUENCE

First Year
Fall Semester
- ENGL A111 Methods of Written Communication 3
- SOC A101 Introduction to Sociology 3
- HIST A101 Western Civilization I 3
- Literature: (ENGL A121, A302, A305, A306, or A307) 3
- CIOS A105 Intro to PC Computers and Applications 3

Spring Semester
- COMM A111, A235, A237, or A241 3
- PSY A150 Life Span Development 3
- HIST A102 Western Civilization II 3
- ENGL A120, PHIL A101, A201, A301, or A421 3
- Elective 3

Second Year
Fall Semester
- ENGL A211, A212, or A213 (A213 highly recommended) 3
- AS A252 or MATH A207 3
- Natural Science 3
- Natural Science Lab 1
- BA A151 or ECON A201 3
- Elective

Spring Semester
- SOC A201 or JUST A110 3
- BIOL A102 Introductory Biology 3
- SWK/HUMS A106 Introduction to Social Welfare 3
- Fine Arts 3
- Elective 3

Third Year
Fall Semester
- ANTH A200 or A202 3
- SWK A306 Introduction to Social Work 3
- SWK A342 Human Behavior in the Soc Environment 3
- SWK A360 Introduction to Generalist SW Practice 3
- Elective 3

Spring Semester
- ENGL A311, A312 or A414 3
- SWK A343 Diversity & Discrimination 3
- SWK A324 SW Research w/Statistics 3
- SWK A407 Formal Organizations 3
- SWK Elective 3

Fourth Year
Fall Semester
- SWK A461A SW Practice I 3
- SWK A461B SW Practicum I 6
- SWK Elective 3
- Elective 2

Spring Semester
- SWK A 462A SW Practice II 3
- SWK A462B SW Practicum II 6
- SWK A406 Social Welfare Policies 3
- Elective 3

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 A306 Introduction to Social Work 3
- SWK A342 Human Behavior in the Social Environment 3
- SWK A343 Human Behavior: Diversity and Discrimination 3
- Upper-division Social Work electives 3

FACULTY

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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 on-going registration. Students may register from the time a course is announced until the first day of the class. Additional registration sites at the Diplomacy Building at the corner of Tudor Rd. and Tudor Centre Dr., Suite 501, between 8:30am and 4:30 pm (907) 786-6721, or 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 786-6498 or refer to Tech-Prep Program in Chapter 8.

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.

ALASKA OUTDOOR AND EXPERIENTIAL EDUCATION

www.uaa.alaska.edu/aoee/

The Alaska Outdoor and Experiential Education department 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. The department’s non-credit offerings are recreational in nature and do not provide the academic component found in its credit courses. Non-credit classes can be found under the subject AOEN.

Many of AOEE’s classes are held in Alaska’s wilderness, an environment that can pose a risk to even the most experienced outdoor leader. Students may be required to perform activities in extremely inclement weather i.e. rain, sleet, snow, wind or sub-zero temperatures. Additionally, there is an assumption that a minimum level of physical fitness is needed to succeed in and enjoy many of the activities. Consequently, before enrolling in an AOEE 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 healthy; 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 an AOEE activity course 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.

REFUND POLICY: All AOEE classes are self support and follow a separate refund policy from general UAA courses. For non-expedition courses, students are entitled to a full refund if they drop two working days before the first class period. If a student decides to drop after the first session, s/he must contact the AOEE office within one working day of the first class. A student who initiates a drop at that time may be entitled to a full refund.

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.

DEVELOPMENTAL EDUCATION

The mission of the Developmental Education Department is to empower non-traditional and at-risk college students through the development of critical thinking and learning skill, self-esteem, and academic proficiency so that these students may successfully pursue life-long learning goals. The Department offers Composition, Reading, Math, and English-as-a-Second Language classes that prepare students for mainstream college classes.

Math classes are developmentally 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, audio tapes, workshops, telecourses, and calculator training are also available.

Developmental English classes are located under the PRPE prefix (Preparatory English) and include short courses for vocabulary, grammar, and study skills; individualized labs for reading and writing; and full length semester courses for reading and composition. The Developmental Education Department offers English-as-a-Second Language courses that serve as a bridge between classes at the Adult Learning Center and courses offered by the College of Arts and Sciences. Slingerland courses help learning-disabled students improve spelling, handwriting, reading, writing, and learning skills. 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.

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 and Title III.

MINING AND PETROLEUM TRAINING SERVICE (MAPTS)

The Mining and Petroleum Training Service was conceived to meet the immediate training needs of the petroleum industry during Alaska’s oil-driven industrial growth period. Since that time, the program has expanded and is currently viewed as a special arm of the University concentrating efforts in industrial training for many different client groups. MAPTS is an exciting segment of the Community and Technical College’s commitment to meeting the ongoing need for vocational training in the state.
COMMUNITY AND TECHNICAL COLLEGE

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 CERTIFICATES, AUTOMOTIVE

See the Automotive and Diesel Technology section of this chapter for details about these four nontranscripted programs of study: Automotive Electrical; Automotive Brakes, Suspension and Alignment; Automotive Power Trains; and Automotive Engine Performance.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE, DIETARY MANAGER

See the Culinary Arts section of this chapter for details about this nontranscripted certificate.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE, FLORAL DESIGN

Cuddy Center, Room 126, 786-1401

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.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE, COACHING LEADERSHIP

Eugene Short Building, Room 125 786-4083

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 through Sports 1
   - PE A261 Drugs and Sport 1

2. Complete one of the following courses:
   - 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 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, HEALTH CARE ASSISTANT

Allied Health Sciences Room 158, 786-6934

The nontranscripted 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.

1. 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

2. Special application procedures are necessary to enroll. Contact Health Education and Training for further information.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE, MEDICAL ASSISTING CERTIFICATE

See the Medical Assisting section of this chapter for details about the nontranscripted departmental certificate of completion.
FITNESS LEADERSHIP

www.uaa.alaska.edu/peandrec/
Eugene Short Building, Room 125, (907) 786-4083

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
   - **Aquatic Fitness Instructor**
     - PE A141 Techniques in Fitness Instruction I 2
     - PE A243 Techniques in Aquatics 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.

AIR FORCE ROTC

Aviation Technology Center, 2811 Merrill Field Drive, (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.

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-Year Program

1. 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 3.0
   - AIRS A302 US Air Force Leadership and Management II 3.0
   - AIRS A401 National Security Affairs I 3.0
   - AIRS A402 National Security Affairs II/Preparation for Active Duty 3.0
   - AIRS A150 US Air Force Leadership Laboratory (0.5) 2.0
2. Cadets take AIRS A150 (US Air Force Leadership Laboratory) each semester for a total of four semesters and 2.0 credits. Academic courses are taken in the order listed, beginning with AIRS A301 in the fall semester.

Three-Year Program

1. Available to UAA students with 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 1.0
   - AIRS A202 Evolution of Air and Space Power II 1.0
   - AIRS A301 US Air Force Leadership and Management I 3.0
   - AIRS A302 US Air Force Leadership and Management II 3.0
   - AIRS A401 National Security Affairs I 3.0
2. Cadets take AIRS A150 (US Air Force Leadership Laboratory) each semester for a total of six semesters and 3.0 credits. Academic courses are taken in the order listed, beginning with AIRS A201 in the fall semester.

Four-Year Program
1. Available to UAA students with 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIRS A101</td>
<td>Foundations of the US Air Force I</td>
<td>1.0</td>
</tr>
<tr>
<td>AIRS A102</td>
<td>Foundations of the US Air Force II</td>
<td>1.0</td>
</tr>
<tr>
<td>AIRS A201</td>
<td>Evolution of Air and Space Power I</td>
<td>1.0</td>
</tr>
<tr>
<td>AIRS A202</td>
<td>Evolution of Air and Space Power II</td>
<td>1.0</td>
</tr>
<tr>
<td>AIRS A301</td>
<td>US Air Force Leadership and Management I</td>
<td>3.0</td>
</tr>
<tr>
<td>AIRS A302</td>
<td>US Air Force Leadership and Management II</td>
<td>3.0</td>
</tr>
<tr>
<td>AIRS A401</td>
<td>National Security Affairs I</td>
<td>3.0</td>
</tr>
<tr>
<td>AIRS A402</td>
<td>National Security Affairs II/Prep for Active Duty</td>
<td>3.0</td>
</tr>
<tr>
<td>AIRS A150</td>
<td>US Air Force Leadership Laboratory (0.5)</td>
<td>4.0</td>
</tr>
</tbody>
</table>

2. Cadets must take AIRS A150 (US Air Force Leadership Laboratory) each semester for a total of eight semesters and 4.0 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).

1. High school seniors can compete for Air Force ROTC scholarships that pay tuition, fees, and books at any university with an Air Force ROTC program. The scholarship includes a monthly stipend. Students can obtain applications from the UAA Air Force ROTC office or from a high school guidance counselor. Applications must be postmarked no later than December 1st of a student’s senior year.

2. Air Force ROTC at UAA has several scholarship options for college students. These scholarships cover tuition, fees, and books for sophomores, juniors, and seniors. Scholarships also include a monthly stipend. Students compete for these scholarships during the academic year prior to activation. For example, a 100-level cadet can compete for a scholarship that would start in the fall of the cadet’s 200-level year.

3. Cadets enrolled in the 300- and 400-level courses are eligible for incentive payments of up to $1,500 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).

4. All scholarships and incentives are subject to federally mandated age restrictions. Contact Air Force ROTC at UAA for more information.

COMMISSIONING
After completing the AFROTC Program, graduating from UAA, and passing a commissioning physical, cadets will receive a commission as a Second Lieutenant in the US Air Force.

1. Cadets selected for pilot training will usually begin the training within 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.

2. Cadets not qualified for pilot training can compete for slots in other career fields. The Air Force has a variety of operations, administrative, engineering, and scientific assignments. Cadets compete for and receive career assignments during the 400-level year and will serve 4 years in the US Air Force after commissioning.

3. Cadets may also compete for medical school appointments. Scholarships cover tuition, fees, and books for a cadet’s undergraduate and medical school programs. Air Force ROTC at UAA has more information on this highly competitive program.

FACULTY

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APPRENTICESHIP TECHNOLOGIES

Beatrice McDonald Building (BMB), Room 212, (907) 786-6423
www.uaa.alaska.edu/appr

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 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 transcripted following completion of all courses listed in the Degree Requirements section.

ASSOCIATE OF APPLIED SCIENCE,
APPRENTICESHIP TECHNOLOGIES

ADMISSION REQUIREMENTS

See Open Admission at the beginning of this chapter.

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
   - MATH A107 College Algebra (4) 3-4
   or
   - AS A252 Elementary Statistics (3)
2. Complete one of the following: 3
   - COMM A111 Fundamentals of Oral Communication (3)
   - COMM A235 Small Group Communication (3)
   - COMM A237 Interpersonal Communication (3)
   - COMM A241 Public Speaking (3)
3. Select three (3) credits from the following:
   - CIOS A105 Introduction to PC Computers and Applications (3)
   - CIOS A107 Macintosh Computer and Applications (3)
   - CS A100 Introduction to Computers (3)
4. Elective 1
5. A total of 60 credits is required for the degree.

FACULTY

Ky Holland, Assistant Professor, AFKH@uaa.alaska.edu
ARCHITECTURAL AND ENGINEERING TECHNOLOGY
Beatrice McDonald Building (BMB), Room 212, (907) 786-6426

The Architectural and Engineering Technology program provides, entry-level skills and 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 and 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, 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. Many of these courses 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 one 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.

CERTIFICATES

ADMISSION REQUIREMENTS
See Certificate and Associate Degree Program Admission Requirements at the beginning of this chapter.

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
   - COMM A111 Fundamentals of Oral Communication or
   - COMM A235 Small Group Communication (3)
   - COMM A237 Interpersonal Communication (3)
   - COMM A241 Public Communication (3)
   - ENGL A111 Methods of Written Communication 3
2. General Requirement
   - 3. A total of 30 credits is required for the certificate.

Note: * 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.

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
   - COMM A111 Fundamentals of Oral Communication 3

www.uaa.alaska.edu
2. General Requirements

Choose Humanities*, Math, Natural Sciences, or Social Sciences, (see Associate Degree Course Classification List at the beginning of this chapter. MATH A105 is recommended).

Note: * 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.

3. 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 and Electrical Technology 4
   - AET A181 Intermediate CADD for Building Construction 4
   - AET A282 Advanced CADD Techniques 4
   - COMM A111 Fundamentals of Oral Communication 3
     or
   - COMM A235 Small Group Communication (3)
     or
   - COMM A237 Interpersonal Communication (3)
     or
   - COMM A241 Public Communication (3)
   - ENGL A111 Methods of Written Communication 3

2. General Requirement

Choose Humanities*, Math, Natural Sciences, or Social Sciences (see Associate Degree Course Classification List at the beginning of this chapter. MATH A105 is recommended).

Note: * 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.

3. 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 A111 Civil Drafting 3
   - AET A121 Architectural Drafting 3
   - AET A123 Codes and Standards 3
   - AET A131 Structural Drafting 3
   - AET A142 Mechanical and Electrical Technology 4
   - AET A143 Mechanical and 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
   - COMM A111 Fundamentals of Oral Communication 3
     or
   - COMM A235 Small Group Communication (3)
     or
   - COMM A237 Interpersonal Communication (3)
     or
   - COMM A241 Public Communication (3)

2. General Requirement

Choose Humanities*, Math, Natural Sciences, or Social Sciences (see Associate Degree Course Classification List at the beginning of this chapter. MATH A105 is recommended).

Note: * 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.

3. A total of 31 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE,
ARCHITECTURAL AND ENGINEERING TECHNOLOGY

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Program Admission Requirements at the beginning of this chapter.

COURSE REQUIREMENTS

Certain courses require prerequisites or faculty permission. Contact (907) 786-6426 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 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 and Standards 3
   - AET A131 Structural Drafting 3
   - AET A142 Mechanical and Electrical Technology 4
   - AET A143 Mechanical and 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

   - AET A201 and AET A295 are recommended.

3. A total of 63 credits is required for the degree.

FACULTY

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COMMUNITY AND TECHNICAL COLLEGE

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 Automotive Technology Degree. The General Automotive Technology AAS Degree and Certificate is 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 General Motors vehicle. The ASEP curriculum includes eight weeks of off-campus instruction and seven weeks of paid work experience the balance of the semester at the sponsoring GM dealership each semester. Successful ASEP students receive General Motors Certification upon graduation.

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.

GENERAL AUTOMOTIVE TECHNOLOGY

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)

The ASSET (Automotive Student Service Educational Training) program is a joint venture with Ford Motor Company and its sponsoring Ford-Mercury-Lincoln dealerships. Admission to this program is only in even numbered years and has very specific admission requirements. Please contact the ASSET instructor, the department or a sponsoring dealership for details. Students in the ASSET program attend class the first eight weeks of the semester and paid work experience the balance of the semester at the sponsoring dealership. The program is five semesters in length and includes a summer semester. General Education courses (English, Speech, Math, etc.) are conducted on a half-semester format by special arrangement through the College of Arts and Sciences.

GENERAL MOTORS AUTOMOTIVE SERVICE EDUCATION PROGRAM (ASEP)

ASEP is a joint venture with UAA, General Motors Corporation and sponsoring General Motors dealerships throughout Alaska. The program is five semesters in length, including one summer semester, and leads to an Associate of Applied Science degree from UAA. Student selection occurs up to three months prior to the start of the program. ASEP is designed to provide students with the high-tech knowledge and skills necessary to diagnose and repair the modern General Motors vehicle. The ASEP curriculum includes eight weeks of on-campus instruction and seven weeks of paid employment at a sponsoring GM dealership each semester. Successful ASEP students receive General Motors Certification upon graduation.

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

Nontranscripted Automotive Technology certificates require demonstrated computer competency. Computer competency may be demonstrated in any of the following ways:

a. A 3 credit course in a computer language or an introductory course in data processing or microcomputers.
b. Work-related experience verifying computer competency as approved by the faculty advisor.
c. Self-initiated computer competency as approved by the faculty advisor.

Four nontranscripted 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 Auto Electrical I 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 nontranscripted 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 nontranscripted departmental certificate of completion.

C. Automotive Power Trains
1. Complete the following courses:
   - ADT A102 Introduction to Automotive Technology 3
   - ADT A111 Power Trains I 3
   - ADT A114 Power Trains II 3
   - ADT A131 Auto Electrical II 3
   - ADT A150 Brake Systems 4
   - ADT A225 Auto Heating and A/C 3
   - ADT A282 Power Trains III (3) 3
   - ADT A295 Automotive Practicum II (3)
2. A total of 24 credits is required for the nontranscripted 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 A130 Basic Auto Engines 3
   - ADT A131 Auto Electrical II 3
   - ADT A211 Auto Fuel Systems 4
   - ADT A212 Engine Performance 6
   - ADT A295 Automotive Practicum II 3
2. A total of 25 credits is required for the nontranscripted departmental certificate of completion.

CERTIFICATE, GENERAL 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
1. Complete the following required courses:
   - First Semester
     - ADT A102 Introduction to Automotive Technology 3
     - ADT A111 Power Trains I 3
     - ADT A121 Basic Electrical Systems 3
     - ADT A130 Basic Auto Engines 3
   - Second Semester
     - ADT A114 Power Trains II 3
     - ADT A131 Auto Electrical II 3
     - ADT A150 Brake Systems 4
     - ADT A162 Suspension and Alignment 4
   - Third Semester
     - ADT A195 Automotive Practicum I (1-6) 6
   - Fourth Semester
     - ADT A211 Auto Fuel Systems 4
     - ADT A212 Engine Performance 6
   - Fifth Semester
     - ADT A225 Auto Heating and A/C 3
     - ADT A227 Auto Electrical III 3
     - ADT A282 Power Trains III (3) 3
     - or
     - ADT A295 Automotive Practicum II (3)
2. A total of 51 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, GENERAL AUTOMOTIVE TECHNOLOGY

GENERAL PROGRAM

COMPUTER COMPETENCY REQUIREMENT

The AAS degree in Automotive Technology requires demonstrated computer competency. Computer competency may be demonstrated in any of the following ways:

1. A 3 credit course in a computer language or an introductory course in data processing or microcomputers.
2. Work-related experience verifying computer competency as approved by the faculty advisor.
3. Self-initiated computer competency as approved by the faculty advisor.

ADMISSION REQUIREMENTS

Specific admission requirements apply to this program. See department for criteria.
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 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 A111 Power Trains I 3
   - ADT A121 Basic Electrical Systems 3
   - ADT A130 Basic Auto Engines 3
   - One AAS degree requirement 3
   Second Semester
   - ADT A114 Power Trains II 3
   - ADT A131 Auto Electrical II 3
   - ADT A150 Brake Systems 4
   - ADT A162 Suspension and Alignment 4
   - One AAS degree requirement 3
   Third Semester
   - ADT A195 Automotive Practicum I (1-6) 6
   - One AAS degree requirement 3
   Fourth Semester
   - ADT A211 Auto Fuel Systems 4
   - ADT A212 Engine Performance 6
   - One AAS degree requirement 3
   Fifth Semester
   - ADT A225 Auto Heating and A/C 3
   - ADT A227 Auto Electrical III 3
   - ADT A282 Power Trains III (3) 3
   or
   - ADT A295 Automotive Practicum II (3) 3
   - One AAS degree requirement 3
2. A total of 66 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 the math placement test administered by the UAA Advising and Counseling Center. Call (907) 786-4500 to make arrangements.
6. Demonstrate English language proficiency through appropriate score on English Placement Test administered by UAA Advising and Counseling Center 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 degree requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS
3. Complete the following required courses:
   First Semester (Fall)
   - ADT A115 Automotive Technology ASSET I 13
   - One AAS degree requirement 3
   Second Semester
   - ADT A135 Automotive Technology ASSET II 13
   - One AAS degree requirement 3
   Third Semester
   - ADT A215 Automotive Technology ASSET III 13
   - One AAS degree requirement 3
   Fourth Semester
   - ADT A235 Automotive Technology ASSET IV 13
   - One AAS degree requirement 3
   Fifth Semester
   - ADT A255 Automotive Technology ASSET V 13
   - One AAS degree requirement 3
2. A total of 80 credits is required for the degree.
Fourth Semester (Fall)
ADT A271 General Motors ASEP 4 12
   One AAS degree requirement 3

Fifth Semester (Spring)
ADT A272 General Motors ASEP 5 12
   One AAS degree requirement 3

4. A total of 75 credits is required for the degree.

CERTIFICATE,
HEAVY-DUTY TRANSPORTATION AND EQUIPMENT

ADMISSION REQUIREMENTS
See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter. Students must complete the following admission requirements:
1. Submit UAA Undergraduate Application for Admission for the Heavy-Duty Transportation and Equipment Certificate.
2. ASSET placement at the MATH A055 entry-level or higher. For testing schedule contact the UAA Advising and Counseling Center.
3. ASSET placement at the ENGL A111 entry-level or higher. For testing schedule contact the UAA Advising and Counseling Center.
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 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 & Pneumatics 4
   ADT A269 Heavy-Duty Drive Trains 4

2. A total of 51 credits is required for the certificate.

RECOMMENDED COURSE SEQUENCE
First Semester (Fall)
ADT A121 Basic Electrical Systems 3
ADT A151 Medium/Heavy-Duty Engine Repair 3
ADT A153 Medium/Heavy Engine Lab 3
ADT A156 Heavy-Duty Maintenance Inspection 6

Second Semester (Spring)
ADT A131 Auto Electrical II 3
ADT A152 Heavy-Duty Suspension and Steering 4
ADT A155 Heavy-Duty Brake Systems 4

Third Semester (Summer)
ADT A195 Automotive Practicum I (1-6) 6

Fourth Semester (Fall)
ADT A266 Heavy-Duty Power Systems Lab 4
ADT A267 Heavy-Duty Fuel Systems 4
ADT A268 Hydraulics & Pneumatics 4

Fifth Semester (Spring)
ADT A225 Auto Heating and A/C 3
ADT A227 Auto Electrical III 3
ADT A269 Heavy-Duty Drive Trains 4

ASSOCIATE OF APPLIED SCIENCE,
HEAVY-DUTY TRANSPORTATION AND EQUIPMENT

ADMISSION REQUIREMENTS
See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter. 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. ASSET placement at the MATH A055 entry-level or higher. For testing schedule contact the UAA Advising and Counseling Center.
3. ASSET placement at the ENGL A111 entry-level or higher. For testing schedule contact the UAA Advising and Counseling Center.
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.

A. GENERAL UNIVERSITY REQUIREMENTS
1. Complete the General University Requirements listed at the beginning of this chapter for Associate of Applied Science.
2. Complete the AAS requirements (15) credits located at the beginning of this chapter.

B. 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 3
   - 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 & Pneumatics 4
   - ADT A269 Heavy-Duty Drive Trains 4

2. A total of 66 credits is required for the AAS degree.

RECOMMENDED COURSE SEQUENCE

First Semester (Fall)
- ADT A121 Basic Electrical Systems 3
- ADT A151 Medium/Heavy Engine Repair 3
- ADT A153 Medium/Heavy Engine Lab 3
- ADT A156 Heavy-Duty Maintenance Inspection 6
- AAS General Degree Requirement 3

Second Semester (Spring)
- ADT A131 Auto Electrical II 3
- ADT A152 Heavy-Duty Suspension and Steering 4
- ADT A155 Heavy-Duty Brake Systems 4
- AAS General Degree Requirement 3

Third Semester (Summer)
- ADT A195 Automotive Practicum I (1-6) 6
- AAS General Degree Requirement 3

Fourth Semester (Fall)
- ADT A266 Heavy-Duty Power Systems Lab 4
- ADT A267 Heavy-Duty Fuel Systems 4
- ADT A268 Hydraulics & Pneumatics 4
- AAS General Degree Requirement 3

Fifth Semester (Spring)
- ADT A225 Auto Heating and A/C 3
- ADT A227 Auto Electrical III 3
- ADT A269 Heavy-Duty Drive Trains 4
- AAS General Degree Requirement 3

FACULTY

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AVIATION TECHNOLOGY

www.uaa.alaska.edu/aviation/
Aviation Technology Center, 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.

ACADEMIC PROGRESS

A grade of a C or higher in each Aviation Technology course is required to graduate with this degree.

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements.

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements (GER) for Baccalaureate Degrees listed at the beginning of this chapter.

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 A13 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
   - CIOS A110 Computer Concepts in Business 3
   - CIOS 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.

1. 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

2. Complete an additional 18 credits of electives. Electives must be approved by a faculty advisor from the Aviation Technology Division.

3. A total of 122 credits is required for the degree, of which 42 credits must be upper-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.

1. 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

2. Complete an additional 6 credits of electives. Electives must be approved by a faculty advisor from the Aviation Technology Division.

3. A total of 122 credits is required for the degree, of which 42 credits must be upper-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.

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.

1. 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 A301 CFI Flight 2
   - AT A302 Transport Aircraft Systems 3
   - AT A362 Aerodynamics & Flight Performance 3
   - ACCT A201 Principles of Financial Accounting 3

2. 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:
   - 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 Sheetmetal 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 Systems (3)
   - AT A431 Aircraft Accident Investigation (3)

**AIR TRAFFIC CONTROL**

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
See Certificate and Associate Degree Program Admission Requirements at the beginning of this chapter. 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 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

   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)

2. A total of 60 credits is required for the degree.
AVIATION ADMINISTRATION

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

See Certificate and Associate Degree Program Admission Requirements at the beginning of this chapter.

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 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
   - CIOS A105 Introduction to PC Computers and Applications (3) 3
   or
   - CIOS A110 Computer Concepts in Business (3) 3
   - CIOS A161 Business Math 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) 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)
   CIOS A100 Keyboarding I (3)
   CIOS 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

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 055 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. Faculty permission is required prior to registration for any AMT course.

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.

ADMISSION REQUIREMENTS,

CERTIFICATE AND ASSOCIATE OF APPLIED SCIENCE DEGREE

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 055. This may be accomplished by:
   a. presentation of college transcripts for department evaluation, or
   b. by attaining an appropriate score on the Math Placement Test administered by the Mathematical Sciences department at the MATH A055 level or above. Please call (907) 786-1742 or 786-4824 to make arrangements.
4. Demonstrate English language proficiency through appropriate score on English Placement Test administered by UAA Advising and Counseling Center or through presentation of transcripts for department evaluation. Generally, applicants prepared for entry into ENGL A108-109 have sufficient proficiency for entry into the AMT program.

CERTIFICATE, AVIATION MAINTENANCE TECHNOLOGY

ADMISSION REQUIREMENTS
See Admission Requirements, Certificate and Degree 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.
      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 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

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2. Complete the following (13 credits):

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
- PHYS A110 Physics for Technicians 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

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 university tuition and fees. These costs are in addition to normally charged 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

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements.
2. Complete the Associate of Applied Science 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
   - *COMM A241 Public Speaking (3) 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) 4
   - VE A301 Principles of Technology 3
   - *PHIL A101 Introduction to Logic 3
   - *CS A100 Introduction to Computers (3) 3
   - or
   - CIOS A110 Computer Concepts in Business (3) 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.
COMPUTER ELECTRONICS

Kenai Peninsula College
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. ASSET placement at the MATH A100 entry-level or above.
2. ASSET placement for reading at the ENGL A110 level or above.
3. Students placing below these math and reading levels on ASSET 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)
   - PHYS A115 Physical Science I for Technicians (4)
   - PHYS A116 Physical Science II for Technicians (4)

MAJOR REQUIREMENTS

1. Complete the following required courses (35 credits):
   - CIOS A110 Computer Concepts in Business 3
   - CS A105 FORTRAN 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 2

3. A total of 60 credits is required for the degree.
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. The university’s ASSET 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.

**ASSOCIATE OF APPLIED SCIENCE, CULINARY ARTS**

**ADMISSION REQUIREMENTS**

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

**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 UAA Advising and Counseling Center (786-4500) to schedule and take the ASSET 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 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)
   - CA A114 Beverages (2)
   - CA A220 Foodservice Operations (3)
   - CA A223 Advanced Foods: Buffet and Garde Manger (3)
   - CA A225 Menu Making/Facility Layout and Design (3)
   - *CA A490 Current Topics in Foodservice and Nutrition (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**

See the beginning of this chapter for information on formal admission to baccalaureate degree programs.

**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 UAA Advising and Counseling Center (786-4500) to schedule and take the ASSET 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:

a. 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.

b. Participate in a work-related experience whereby faculty or employer can verify computer competency.

c. 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 (GUR) for Baccalaureate Degree Programs at the beginning of this chapter.

B. **General Education Requirements**
   Complete the General Education Requirements (GER) for Baccalaureate Degree Programs 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 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 A343 Principles of Marketing 3
BA A361 Human Resource Management 3
BA A310 Consumer Behavior 3
BA A463 Promotion Management 3
CIOS 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)
1. 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
2. Complete three courses from the following (9 credits):
   HA 340 Beverage and Bar Operations (3)
   (Must be 21 or older
   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)
1. 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
   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

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.

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 Center 108
   3211 Providence Drive
   Anchorage AK 99508
   Please call: (907) 786-4728
4. Schedule ASSET screening test with Testing Coordinator, Advising and Counseling Center, 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 (20 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 1.5
   - CA A295B Foodservice Management Practicum .5
   - DN A150 Introduction to Diet Therapy 1
   - DN A195 Nutritional Care Practicum 1

2. A total of 20 credits is required for the nontranscripted departmental certificate of completion.

FACULTY

Timothy Doebler, Director, AFTWD@uaa.alaska.edu
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Anne Bridges, Term Asst. Professor, britur@gci.net
Vern Wolfram, Term Assistant Professor
Nancy Overpeck, Associate Professor, ANNOK@uaa.alaska.edu
Dean Radcliff, Term Instructor, AFDR@uaa.alaska.edu

DENTAL ASSISTING

Allied Health Sciences Building (AHS), Room 158, (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
   Please call:  (907) 786-6929 or (907) 786-6936
3. Contact UAA’s Advising and Counseling Center 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 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 A105 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.

FACULTY
Nancy Bish, Associate Professor, AFNKB@u aa.alaska.edu
Cindy Zimmerman, Assistant Professor, AFCJZ@u aa.alaska.edu
DENTAL HYGIENE

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 or 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 a 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 a 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. Graduation from high school or equivalent.
3. Documentation from official transcripts showing successful 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

Please call: (907) 786-6929 or (907) 786-6936

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 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 for 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

Allied Health Sciences Building (AHS), Room 155, (907) 786-6940

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 Tom Wells at (907) 267-5066.

ASSOCIATE OF APPLIED SCIENCE, FIRE SERVICE ADMINISTRATION

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

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 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:
   - 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.

4. A total of 60 credits is required for the degree.

**FACULTY**

*Tom Wells, Coordinator*

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**INDUSTRIAL PROCESS INSTRUMENTATION**

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

The Industrial Process Instrumentation program is offered only at Kenai Peninsula College.

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. ASSET placement at the MATH A100 entry-level or above.
2. ASSET placement for reading at the ENGL A107 level or above.
3. Students placing below these math and reading levels on ASSET 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.

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
     or
   - PHYS A116 Physical Science II for Technicians (4)
     and
   - 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)
     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
Beatrice McDonald Building (BMB) 205 (907) 786-6423

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
See Associate of Applied Science Degree admission requirements at the beginning of this chapter.

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 requirements (15 credits) located at the beginning of this chapter. COMM A237, CIOS A262, 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 A241 Business Law I 3
   - CIOS 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 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 emphasis courses (12-13 credits):
   - ACCT A222 Introduction to Computers and Accounting (3)
   - ENGL A212 Technical Writing (3)
   - CIOS A264 Interpersonal Skills in Organizations (3)
   - OSH A250 Hazardous Material Operation (3)
   - OSH A108 Injury Prevention and Risk Management (4)
   - TECH A295 Technical Internship (1-6)
   - TECH A402 Operational Safety (3)
3. A total of 63-64 credits are required for this degree.

Recommended Course Sequence
To accommodate course prerequisites and scheduling, it is highly recommended students follow this course sequence.

FACULTY
William C. Lorch, Assistant Professor, AFWCL@uaa.alaska.edu
MASSAGE THERAPY
www.uaa.alaska.edu/het 3400 Spenard Road, Suite 102 272-4742

Built on national educational standards and accredited through AMTA Commission on Massage Therapy Accreditation (COMTA), this 630-hour certificate program provides entry-level and advanced skills in the art and science of therapeutic massage. The comprehensive program is designed to prepare students to establish successful independent businesses and integrate with other healthcare practitioners in this fast growing complementary healthcare profession.

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 and application techniques 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 and meets municipal licensure requirements. Massage therapists are employed by hospitals, chiropractic offices, physical therapy clinics, athletic teams, health clubs, spas, hotel resorts, and rehabilitation centers. Professional massage therapists are opening their own practices and creating independent contracts with large corporations and businesses, providing stress reduction and performance enhancing treatments on-site.

Nationwide there is continuous demand for competent and highly skilled massage therapists as more medical practitioners integrate therapeutic massage into their treatment plans. Therapeutic massage has been shown to significantly decrease stress levels, relax tense muscles, reduce heart rate and blood pressure, and increase blood circulation and lymph flow. Studies also indicate massage therapy to be highly effective in pain management, correcting structural dysfunction, improving range of motion, and rehabilitation from injury or surgery.

The nontranscripted Therapeutic Massage Therapy department certificate of completion is designed to prepare students to become successful massage therapists. The program provides a balanced education in the science, art, and ethics of massage therapy through theory and application. Successful completion of the program meets national certification requirements and allows individuals to apply for a municipal license as a massage therapist.

1. Students must complete the following required courses:

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MTP A151</td>
<td>Human Health and Disease I 3</td>
</tr>
<tr>
<td>MTP A153</td>
<td>Fundamentals of Therapeutic Massage I 4</td>
</tr>
<tr>
<td>MTP A154</td>
<td>Assessment, Documentation, and Communication for Massage Therapists 1</td>
</tr>
<tr>
<td>MTP A155</td>
<td>Professional Practice Management 1</td>
</tr>
<tr>
<td>HCA A176</td>
<td>First Aid and CPR for Professionals 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MTP A152</td>
<td>Human Health and Disease II 3</td>
</tr>
<tr>
<td>MTP A253</td>
<td>Fundamentals of Therapeutic Massage 4</td>
</tr>
<tr>
<td>MTP A254</td>
<td>Structure, Function, Movement 3</td>
</tr>
<tr>
<td>MTP A295</td>
<td>Massage Therapy Clinical 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summer Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MTP A255</td>
<td>Advanced Therapeutic Massage Technician I 3</td>
</tr>
<tr>
<td>MTP A256</td>
<td>Advanced Therapeutic Massage Technician II 3</td>
</tr>
</tbody>
</table>

2. A total of 28 credits is required for the nontranscripted departmental certificate of completion.

3. Special application procedures are necessary to enroll. Contact Health, Education, and Training for further information.

CERTIFICATE, MASSAGE THERAPY

The Certificate in Massage requires 3 semesters to complete, although it can be taken over the course of a 5 semester period. Students must begin the program in the Fall semester.

ADMISSION REQUIREMENTS

1. See certificate and Associate Degree Program Admission Requirements at the beginning of this chapter.
2. Contact the Massage Therapy Program for additional admission requirements.
3. 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.

ACADEMIC PROGRESS

All courses must be completed with a grade of "C" or better.

MAJOR REQUIREMENTS

1. Complete the following required courses:

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MTP A151</td>
<td>Human Health and Disease I 3</td>
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<td>MTP A153</td>
<td>Fundamentals of Therapeutic Massage I 4</td>
</tr>
<tr>
<td>MTP A154</td>
<td>Assessment, Documentation, and Communication for Massage Therapists 2</td>
</tr>
</tbody>
</table>

<table>
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<tr>
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<td>MTP A254</td>
<td>Structure, Function, and Movement 3</td>
</tr>
<tr>
<td>MTP A295</td>
<td>Massage Therapy Clinical 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summer Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MTP A155</td>
<td>Massage Therapy Business Management 2</td>
</tr>
<tr>
<td>MTP A255</td>
<td>Advanced Massage &amp; Bodywork Technician I 3</td>
</tr>
<tr>
<td>MTP A256</td>
<td>Advanced Massage &amp; Bodywork Technician II 3</td>
</tr>
</tbody>
</table>

2. A total of 30 credits are required for the certificate.
MECHANICAL TECHNOLOGY
34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

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

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, 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 nontranscripted 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. Obtain an application from the Medical Assisting Office.
   2. Have high school and college transcripts sent to the Medical Assisting program.
   3. Apply to Advising and Counseling for the English and Math ASSET test. Have results sent to the Medical Assisting program.
4. 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 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 A115G Introduction to Microsoft Word in Windows (1) 1
     or
   - CIOS A115H Introduction to WordPerfect in Windows (1)
   - CIOS A160 Business English 3
   - CIOS A170 Calculators 1
   - 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, Visiting Asst Professor, AFPKV@uaa.alaska.edu*
*Robin Wahto, Associate Professor, AFRJW@uaa.alaska.edu*

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**MEDICAL LABORATORY TECHNOLOGY**

*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 program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). 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.
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.

Education Requirements

High school diploma or GED equivalency

Students must complete the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDT A101</td>
<td>Phlebotomy Procedures</td>
<td>3</td>
</tr>
<tr>
<td>MEDT A195A</td>
<td>Phlebotomy Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDT A101</td>
<td>Phlebotomy Procedures</td>
<td>3</td>
</tr>
<tr>
<td>MEDT A195A</td>
<td>Phlebotomy Practicum</td>
<td>3</td>
</tr>
<tr>
<td>MEDT A102</td>
<td>Urinalysis for Clinical Assistants</td>
<td>2</td>
</tr>
<tr>
<td>MEDT A103</td>
<td>Hematology for Clinical Assistants</td>
<td>3</td>
</tr>
<tr>
<td>MEDT A104</td>
<td>Clinical Chemistry for Clinical Assistants</td>
<td>3</td>
</tr>
<tr>
<td>MEDT A105</td>
<td>Microbiology for Clinical Assistants</td>
<td>3</td>
</tr>
<tr>
<td>MEDT A195B</td>
<td>Clinical Assistant Practicum</td>
<td>7</td>
</tr>
</tbody>
</table>

ASSOCIATE OF APPLIED SCIENCES

MEDICAL LABORATORY TECHNOLOGY

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:
   - Immunity to rubella and rubeola confirmed by titer.
   - Immunity to Hepatitis A and Hepatitis B. Students must have started the immunization series prior to enrolling in MEDT A132.
   - Immunity to chicken pox documented by history, titer or current immunization.
   - Diphtheria/tetanus vaccination within the past ten years.
   - 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 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.

FACULTY

Heidi Mannion, Assistant Professor, AFHAM@uaa.alaska.edu

MEDICAL TECHNOLOGY

Allied Health Sciences Building (AHS), Room 155, (907) 786-6928

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 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
A Bachelor of Science in Medical Technology is provided 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.

BACHELOR OF SCIENCE, MEDICAL TECHNOLOGY

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 Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.
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 (23 credits) with a grade of C or higher or P):
   - BIOL A111 and A112 8
   - CHEM A103 and A104 or 8
   - CHEM A105, CHEM A106 and CHEM A321
   - MATH 107 4
   - MEDT A132 3

2. Prior to enrollment in MEDT A132, students must provide documentation of the following:
   - Immunity to rubella and rubeola confirmed by titer.
   - Immunity to Hepatitis A and Hepatitis B. Students must have started the immunization series prior to enrolling in MEDT A132.
   - Immunity to chicken pox documented by history, titer or current immunization.
   - Diphtheria/tetanus vaccination within the past ten years.
   - 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 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.
   - Work-related experiences verifying computer competency as approved by faculty or advisor.
   - 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 satisfactory grade (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.

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 baccalaureate general education requirements 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 satisfactory grade (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 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
   *CHEM A104/L Introduction to Organic Chemistry and Biochemistry 4
   and
   CHEM Elective 4
   or
   *CHEM A105/L General Chemistry I and (4)
   *CHEM A106/L General Chemistry II and
   *CHEM A321 Organic Chemistry I (4)
   CIOS A380 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
   or
   PHIL A302 Biomedical Ethics 3

2. Complete the following major courses with a satisfactory grade (C or higher or P) or better.

   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 course 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.

3. A total of 127 credits is required for the degree, of which 42 credits must be upper-division.

RECOMMENDED COURSE SEQUENCE
Each student’s pre-major course schedule sequence may vary according to required prerequisite courses.

First Year
Semester I Pre-major
ENGL A111 Methods of Written Communication
Oral Communication Skills
BIOL A111 Anatomy and Physiology I
CHEM A103/L Survey of Chemistry/Lab
or
CHEM A105/L General Chemistry I/Lab
Fine Arts (GER)

Semester I Pre-major
ENGL A212 Technical Writing
BIOL A112 Anatomy and Physiology II
CHEM A104/L Introduction to Organic and Biochemistry/Lab
or
CHEM A106/L General Chemistry II/Lab
MATH 107 College Algebra
MEDT A132 Introduction to Laboratory Medicine

Summer Pre-Major
CHEM A321/L Organic Chemistry I/Lab
or
Chemistry Elective

Second Year
Semester I Full-Major
MEDT A203 Clinical Microbiology
MEDT A204 Hematology and Coagulation
MEDT A208 Urine and Body Fluid Analysis
Social Science (GER)

Semester II Full-Major
MEDT A202 Clinical Chemistry
MEDT A206 Immunology and Blood Banking
AS A252 Elementary Statistics or AS A307 Probability and Statistics
Social Science (GER)

Third Year
Semester I Full-Major
ENGL A312 Advanced Technical Writing
MEDT A302 Clinical Laboratory Education and Management
PHIL A302 Biomedical Ethics
CIOS A380 Managerial Presentations
Humanities (GER)

Semester II Full-Major
MEDT A301 Clinical Molecular Biology
MEDT A303 Advanced Clinical Microbiology
MEDT A492 Undergraduate Seminar
Humanities (GER)

Fourth Year
Semester I Full-Major
MEDT A495 Medical Technology Practicum

Semester II Full-Major
MEDT A495 Medical Technology Practicum

FACULTY
Heidi Mannion, Assistant Professor, AFHAM@uaa.alaska.edu

OCCUPATIONAL SAFETY AND HEALTH
Beatrice McDonald Building (BMB), Room 212, (907) 786-6423
www.uaa.alaska.edu/osh

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
1. Contact the Occupational Safety and Health department at (907) 786-6423 for an appointment with a faculty advisor.
2. Request an admission and advising packet.
3. Demonstrate computer competency evidence by any of the following:
   a. 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.
   b. Work-related experience verifying computer competency as approved by the faculty advisor.
   c. Self-initiated computer competency as approved by the 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 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 (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
OFFICE MANAGEMENT AND TECHNOLOGY

Adult Learning Center, 3401 Minnesota (907) 276-6007 (off campus)
Beatrice MacDonald Building Room 212 (907) 786-6423

Office Management and Technology (OMT) programs provide career education leading to a certificate or an Associate of Applied Science degree, as well as job enrichment courses.

You may choose between two emphases in the Associate of Applied Science (OMT) degree: Secretarial, and Bookkeeping (Bookkeeping is offered only at the Kodiak campus). The certificate offers concentrated study in Office Technology. In addition, the certificate provides the student with flexibility in selecting elective credits from the following subject areas: computer word/information processing, business communications, and bookkeeping.

OMT programs prepare students for career entry or advancement and also offer skills preparation for personal use. Courses meet the needs of beginning, experienced, or re-entry office workers. Review courses are also available to prepare candidates for the Certified Professional Secretary (CPS) Examination.

CERTIFICATE, OFFICE TECHNOLOGY

1. Complete the following 13 credits:
   - CIOS A160 Business English 3
   - CIOS A165 Office Procedures 3
   - CIOS A167 Proofreading 1
   - CIOS A262 Written Business Communications 3
   - CIOS A264 Interpersonal Skills in Organizations 3

2. Complete 3 credits from the following:
   - CIOS A105 Introduction to PC Computers and Applications (3)
   - CIOS A107 Macintosh Computer and Applications (3)
   - CIOS A110 Computer Concepts in Business (3)

3. Complete 3-6 credits from the following:
   - CIOS A100* Keyboarding I (3)
   - CIOS A100A* Keyboarding I: A (1)
   - CIOS A100B* Keyboarding I: B (1)
   - CIOS A100C* Keyboarding I: C (1)
   - CIOS A102 Keyboarding Skill Building (1)
   - CIOS A260 Keyboarding II (3)

   *Credit will not be counted for BOTH CIOS A100 and CIOS A100A, A100B, and A100C.

4. Complete 1 credit from the following:
   - CIOS A115 Selected Introductory Word Processing Applications (1)
   - CIOS A215 Selected Advanced Word Processing Applications (1)

5. Complete 1-3 credits from the following:
   - CIOS A166 Filing (1)
   - CIOS A276 Records Management (3)

6. Complete elective credits approved by the CIOS department.

7. A total of 30 credits is required for the certificate.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is highly that recommended students follow this course sequence:
ASSOCIATE OF APPLIED SCIENCE,
OFFICE MANAGEMENT AND TECHNOLOGY

ADMISSION REQUIREMENTS
See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

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 requirements located at the beginning of this chapter. CIOS A262 recommended.

MAJOR REQUIREMENTS
A. Bookkeeping Emphasis
This emphasis is offered only through Kodiak College.
1. Complete 21 credits from the following required courses:
   - CIOS A100* Keyboarding I (3)
   - CIOS A100A* Keyboarding I: A (1)
   - CIOS A100B* Keyboarding I: B (1)
   - CIOS A100C* Keyboarding I: C (1)
   - CIOS A160 Business English (3)
   - CIOS A161 Business Math (3)
   - CIOS A165 Office Procedures (3)
   - CIOS A262* Written Business Communications (3)
   - CIOS A264 Interpersonal Skills in Organizations (3)
   - CIOS A276 Records Management (3)

   *If CIOS A262 was taken to meet the Written Communications General Education Requirement, then complete 3 elective CIOS credits of your choice.

2. Complete 18 credits from the following:
   - ACCT A101 Principles of Financial Accounting I (3)
   - ACCT A102 Principles of Financial Accounting II (3)
   - ACCT A120 Bookkeeping for Business I (3)
   - BA A131 Personal Finance (3)
   - CIOS A162 Payroll Procedures (1)
   - Any A100/200-level ACCT, BA, CIOS, or ECON elective (4)
3. General electives (6)
4. A minimum of 60 credits is required for the degree.

B. Secretarial Emphasis
1. Complete 13 credits from the following:
   - CIOS A160 Business English (3)
   - CIOS A161 Business Math (3)
   - CIOS A165 Office Procedures (3)
   - CIOS A167 Proofreading (1)
   - CIOS A264 Interpersonal Skills in Organizations (3)
2. Complete 6 credits from the following:
   - CIOS A100* Keyboarding I (3)
   - CIOS A100A* Keyboarding I: A (1)
   - CIOS A100B* Keyboarding I: B (1)
   - CIOS A100C* Keyboarding I: C (1)
   - CIOS A102 Keyboarding Skill Building (1)
   - CIOS A260 Keyboarding II (3)
   - CIOS A261 Keyboarding III (3)
   - Credit will not be counted for BOTH CIOS A100 and CIOS A100A, A100B, and A100C.
3. Complete 1-3 credits from the following:
   - CIOS A250A Machine Transcription A (1)
   - CIOS A250B Machine Transcription B (1)
   - CIOS A251 Medical Transcription (3)
   - CIOS A252 Legal Transcription (1-3)
4. Complete 3 credits from the following:
   - CIOS A105 Introduction to PC Computers and Applications (3)
   - CIOS A110 Computer Concepts in Business (3)
5. Complete 1-3 credits from the following:
   - CIOS A115 Selected Introductory Word Processing Applications (1)
   - CIOS A215 Selected Advanced Word Processing Applications (1)
6. Complete 3 credits from the following:
   - CIOS A262* Written Business Communications (3)
   - If CIOS A262 was taken to meet the Written Communications General Education Requirement, then complete 3 elective CIOS credits of your choice.
7. Complete 3 credits from the following:
   - ACCT A101 Principles of Financial Accounting I (3)
   - ACCT A120 Bookkeeping for Business I (3)
   - ACCT A201 Principles of Financial Accounting III (3)
8. Complete 3 credits from the following:
   - CIOS A107 Macintosh Computer and Applications (3)
   - CIOS A107A Introduction to Macintosh Computers (1)
   - CIOS A116B Introduction to Desktop Publishing on IBM (1)
   - CIOS A338 Desktop Publishing and Design (3)
9. Complete 7-9 credits from the following:
   - CIOS A166 Filing (1)
   - CIOS A276 Records Management (3)
   - CIOS A263 Professional Secretarial Procedures (3)
   - BAA231 Fundamentals of Supervision (3)

ASSOCIATE OF APPLIED SCIENCE,
OFFICE MANAGEMENT AND TECHNOLOGY

ADMISSION REQUIREMENTS
See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

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 requirements located at the beginning of this chapter. CIOS A262 recommended.

MAJOR REQUIREMENTS
A. Bookkeeping Emphasis
This emphasis is offered only through Kodiak College.
1. Complete 21 credits from the following required courses:
   - CIOS A100* Keyboarding I (3)
   - CIOS A100A* Keyboarding I: A (1)
   - CIOS A100B* Keyboarding I: B (1)
   - CIOS A100C* Keyboarding I: C (1)
   - CIOS A160 Business English (3)
   - CIOS A161 Business Math (3)
   - CIOS A165 Office Procedures (3)
   - CIOS A262* Written Business Communications (3)
   - CIOS A264 Interpersonal Skills in Organizations (3)
   - CIOS A276 Records Management (3)

   *If CIOS A262 was taken to meet the Written Communications General Education Requirement, then complete 3 elective CIOS credits of your choice.

2. Complete 18 credits from the following:
   - ACCT A101 Principles of Financial Accounting I (3)
   - ACCT A102 Principles of Financial Accounting II (3)
   - ACCT A120 Bookkeeping for Business I (3)
   - BA A131 Personal Finance (3)
   - CIOS A162 Payroll Procedures (1)
   - Any A100/200-level ACCT, BA, CIOS, or ECON elective (4)
3. General electives (6)
4. A minimum of 60 credits is required for the degree.

B. Secretarial Emphasis
1. Complete 13 credits from the following:
   - CIOS A160 Business English (3)
   - CIOS A161 Business Math (3)
   - CIOS A165 Office Procedures (3)
   - CIOS A167 Proofreading (1)
   - CIOS A264 Interpersonal Skills in Organizations (3)
2. Complete 6 credits from the following:
   - CIOS A100* Keyboarding I (3)
   - CIOS A100A* Keyboarding I: A (1)
   - CIOS A100B* Keyboarding I: B (1)
   - CIOS A100C* Keyboarding I: C (1)
   - CIOS A102 Keyboarding Skill Building (1)
   - CIOS A260 Keyboarding II (3)
   - CIOS A261 Keyboarding III (3)
   - Credit will not be counted for BOTH CIOS A100 and CIOS A100A, A100B, and A100C.
3. Complete 1-3 credits from the following:
   - CIOS A250A Machine Transcription A (1)
   - CIOS A250B Machine Transcription B (1)
   - CIOS A251 Medical Transcription (3)
   - CIOS A252 Legal Transcription (1-3)
4. Complete 3 credits from the following:
   - CIOS A105 Introduction to PC Computers and Applications (3)
   - CIOS A110 Computer Concepts in Business (3)
5. Complete 1-3 credits from the following:
   - CIOS A115 Selected Introductory Word Processing Applications (1)
   - CIOS A215 Selected Advanced Word Processing Applications (1)
6. Complete 3 credits from the following:
   - CIOS A262* Written Business Communications (3)
   - If CIOS A262 was taken to meet the Written Communications General Education Requirement, then complete 3 elective CIOS credits of your choice.
7. Complete 3 credits from the following:
   - ACCT A101 Principles of Financial Accounting I (3)
   - ACCT A120 Bookkeeping for Business I (3)
   - ACCT A201 Principles of Financial Accounting III (3)
8. Complete 3 credits from the following:
   - CIOS A107 Macintosh Computer and Applications (3)
   - CIOS A107A Introduction to Macintosh Computers (1)
   - CIOS A116B Introduction to Desktop Publishing on IBM (1)
   - CIOS A338 Desktop Publishing and Design (3)
9. Complete 7-9 credits from the following:
   - CIOS A166 Filing (1)
   - CIOS A276 Records Management (3)
   - CIOS A263 Professional Secretarial Procedures (3)
   - BAA231 Fundamentals of Supervision (3)
BA A151 Introduction to Business (3) or
BA A166 Small Business Management (3)

10. Complete 0-5 elective credits to total 60 credits. 0-5
   CIOS A168 Shorthand (3)
   CIOS A170 Calculators (1)
   CIOS A192 Seminars in Office Management and Technology (1)

11. A minimum of 60 credits is required for the degree.

C. Legal Secretarial Emphasis
1. Complete 13 credits from the following:
   CIOS A160 Business English 3
   CIOS A161 Business Math 3
   CIOS A165 Office Procedures 3
   CIOS A167 Proofreading 1
   CIOS A264 Interpersonal Skills in Organizations 3

2. Complete 1-3 credits from the following: 1-3
   CIOS A250A Machine Transcription A (1)
   CIOS A251 Medical Transcription 3
   CIOS A252 Legal Transcription (1-3)

3. Complete 3 credits from the following: 3
   CIOS A105 Introduction to PC Computers and Applications (3)
   CIOS A110 Computer Concepts in Business (3)

4. Complete 1-3 credits from the following: 1-3
   CIOS A115 Selected Introductory Word Processing Applications (1)
   CIOS A215 Selected Advanced Word Processing Applications (1)

5. Complete 3 credits from the following:
   CIOS A262* Written Business Communications 3
   *If CIOS A262 was taken to meet the Written Communications General Education Requirement, then complete 3 elective CIOS credits of your choice.

6. 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)

7. Complete 18 credits from the following: 18
   CIOS A261 Keyboarding III (3)
   CIOS A272 Law Office Procedures: Litigation (3)
   CIOS A273 Law Office Procedures: Client Documents (3)
   CIOS A274 Alaska Rules of Civil Procedures (3)
   CIOS A263 Professional Secretarial Procedures (3)
   or
   BA A151 Introduction to Business (3)
   or
   BAA231 Fundamentals of Supervision (3)
   PARL A101 Introduction to Law (3)
   or
   JUST A110 Introduction to Justice (3)
   or
   BA/JUST A241 Business Law I (3)

8. Complete the following (3 credits):
   CIOS A295C Office Systems Internship (1-6) 3
   or
   One year work experience in an Alaska law office within the last five years may be substituted for CIOS A295C. If work experience is substituted, complete CIOS elective credits to equal 60 credits.

9. A minimum of 60 credits is required for the degree.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is highly that recommended students follow this course sequence:

First Year

Fall Semester (15 credits):
   CIOS A100 Keyboarding I 3
   or
   CIOS A260 Keyboarding II 3
   CIOS A105 Introduction to PC Computers and Applications 3
   or
   CIOS A110 Computer Concepts in Business 3
   CIOS A160 Business English 3
   CIOS A165 Office Procedures 3
   CIOS A115 Selected Introductory Word Processing Applications* 1
   CIOS A215 Selected Advanced Word Processing Applications* 1
   Elective 1

Spring Semester (15 credits):
   CIOS A161 Business Math 3
   CIOS A166 Filing* 1
   CIOS A167 Proofreading 1
   CIOS A250A Machine Transcription A 1
   CIOS A260 Keyboarding II 3
   or
   CIOS A261 Keyboarding III 3
   CIOS A262 Written Business Communications† 3
   CIOS A264 Interpersonal Skills in Organizations 3
   or
   BA A231 Fundamentals of Supervision†† 3

Second Year

Fall Semester (15-17 credits):
   ACCT A101 Principles of Financial Accounting I 3
   or
   ACCT A120 Bookkeeping for Business I 3
   ENGL A111 Methods of Written Communication 3
   COMM A111, A235, A237 or A241 3
   General Requirement** 3
   Program elective (must be approved by CIOS advisor) 3
   Elective 0-2

Spring Semester (15 credits):
   BA A151 Introduction to Business 3
   or
   BA A166 Small Business Management 3
   CIOS A263 Professional Secretarial Procedures 3
   General Requirement** 3
   CIOS A295C Office Systems Internship 3
   Elective 3

* Representative courses. See catalog for complete list.
** See General Requirement list for approved course classifications
† If CIOS A262 was taken to meet the Written Communications General Education Requirement, then complete three (3) elective CIOS credits of your choice.
†† CBPP Blanket petition allows for students to take BA A231 as part of this degree.
PARAMEDICAL TECHNOLOGY
Allied Health Sciences Building (AHS), Room 155, (907) 786-6940

Note: 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.
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 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**

34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0360.
The Petroleum Technology program is offered only through Kenai Peninsula College.

This program is currently under revision. Contact David Spann at 262-0365 for further details.

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.

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**PROCESS TECHNOLOGY**

Kenai Peninsula College
34820 College Drive, Soldotna, Alaska 99669, (907) 262-0365

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. ASSET placement at the MATH A101 entry-level or above, equivalent course, or appropriate ACT/SAT scores.
2. ASSET 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.

1. **Oral Communication Skills** (One of the following)
   - COMM A111 Fundamentals of Oral Communication (3)
   - COMM A235 Small Group Communication (3)
   - COMM A237 Interpersonal Communication (3)
   - COMM A241 Public Speaking (3)

2. **Written Communication Skills**
   - ENGL A111 Methods of Written Communication (3)
   - and one of the following:
   - ENGL A211 Academic Writing About Literature (3)
   - ENGL A212 Technical Writing (3)
   - ENGL A213 Writing in the Social and Natural Sciences (3)

3. **Support Courses**
   - Math
     - MATH A105 Intermediate Algebra
   - MATH A107 College Algebra
   - Computer Literacy
     - CIOS A105 Introduction to PC Computers and Applications (3)
   - CIOS A110 Computer Concepts in Business (3)
   - Pass a computer literacy test
   - Natural Science
     - PHYS A115 Physical Science I for Technicians
   - PHYS A116 Physical Science II for Technicians
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.

A two-year certificate program and an Associate of Applied Science degree in Refrigeration and Heating are available. Students satisfactorily completing this program will possess a background in heating, air conditioning refrigeration, applied physics, mathematics, blueprint reading, electricity, and the technical skills required to diagnose and repair the modern commercial and domestic heating, refrigeration, air conditioning, and ventilation systems.

All students enrolling in the Refrigeration and Heating 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. Additional training may take place on the job.

CERTIFICATE,
REFRIGERATION AND HEATING TECHNOLOGY

ADMISSION REQUIREMENTS
See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

ACADEMIC PROGRESS
Earn a cumulative GPA of 2.00 (C) or higher in required Refrigeration and Heating courses to receive the Certificate.

MAJOR REQUIREMENTS
1. Complete the following required courses (50 credits):

First Year
First Semester
RH A101 Refrigeration and Air Conditioning Fundamentals 4
RH A103 Technical Math for Industrial Trades 3
RH A105 Electrical Circuits for Refrigeration and Heating I 3
RH A109 Principles of Thermodynamics 3
Second Semester
RH A122 Refrigeration and Air Conditioning 4
RH A126 Electrical Circuits for Refrigeration and Heating II 3
RH A130 Blueprint Reading for HVAC/R Systems 3
RH A132 Troubleshooting HVAC/R Systems 3

Second Year
First Semester
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

FACULTY
Matthew Scully, Assistant Professor, AFMS1@uaa.alaska.edu
Second Semester
- 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 54 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, REFRIGERATION AND HEATING TECHNOLOGY

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 requirements (15 credits) located at the beginning of this chapter.

ACADEMIC PROGRESS
Earn a cumulative GPA of 2.00 (C) or higher in required Refrigeration and Heating courses to receive the AAS.

MAJOR REQUIREMENTS
1. Complete the following required courses (50 credits):

   First Year
   - First Semester
     - RH A101 Refrigeration and Air Conditioning Fundamentals 4
     - RH A103 Technical Math for Industrial Trades 3
     - RH A105 Electrical Circuits for Refrigeration and Heating I 3
     - RH A109 Principles of Thermodynamics 3
   - Second Semester
     - RH A122 Refrigeration and Air Conditioning 4
     - RH A126 Electrical Circuits for Refrigeration and Heating II 3
     - RH A130 Blueprint Reading for HVAC/R Systems 3
     - RH A132 Troubleshooting HVAC/R Systems 3

   Second Year
   - First Semester
     - RH A201 Commercial and Ammonia Refrigeration 4
     - RH A203 HVAC/R Basic Controls 3
     - RH A209 Codes of HVAC/R 2
     - RH A211 Customer Relations and Job Etiquette 1
     - RH A225 Heating Fundamentals and Forced Air Heat 4
   - Second Semester
     - 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 69 credits is required for the degree.

FACULTY

Jack Cypher, Instructor, PJFJC@matsu.alaska.edu
Dan Mielke, Assistant Professor, PFDMM@matsu.alaska.edu

TECHNOLOGY

Beatrice McDonald Building (BMB), Room 212, (907) 786-6423

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 addition 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.

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
See Open Enrollment requirements in Chapter 2 of this catalog.

A. GENERAL UNIVERSITY REQUIREMENTS
1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science 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.

B. MAJOR REQUIREMENTS
1. Complete the following required courses (38 credits):

   **General Requirements**
   Math A107 College Algebra 4

   **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
   CIOS A105 Introduction to PC Computers and Applications 3
   AET A100 Fundamentals of Drafting 3
   WELD A215 Basic Shielded Metal Arc Welding 2
   EDD A288 Computer Assisted 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 the identified courses in one of the Technology Emphasis areas (12 credits):

   **A. Space Maintenance**
   TECH A210 Introduction to Space Systems Technology 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 3

   **B. Seafood Technology**
   TECH A262 Seafood Harvesting 3
   TECH A263 Seafood Processing 3
   TECH A264 Seafood Quality and Safety 3
   TECH A295 Technical Internship 3

   **C. 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 3-6

3. A total of 61 credits is required for the degree.

BACHELOR OF SCIENCE, TECHNOLOGY
*The Technology Program is undergoing curriculum changes. Contact Department.*

ADMISSION REQUIREMENTS
Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

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.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. 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).

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. Students choosing the Teacher Education Option are strongly encouraged to select courses from one discipline.

3. Complete one of the following four BST options:

TEACHER EDUCATION OPTION
*Note: The Technology Program is undergoing curriculum changes. Contact Department.*

Students who select the Teacher Education Option must meet the following requirements in order to be admitted to student teaching and practicum:
A. Earn at least a 3.00 GPA in education and vocational education courses.
B. Earn at least a 2.50 overall GPA.
C. Be recommended by the Vocational Teacher Education faculty.
D. Submit verification of physical exam, including Tine test.

1. Complete the following required courses (47 credits):

   - ED A201 Introduction to Education 2
   - ED A321 Instruction and Assessment 3
   - ED A410 Language and Cognition 4
   - EDPE A338 Human Motor Development and Learning (3) or
     EDSE A312 Human Motor Development and Learning (3)
   - EDSE A336 Classroom Management and Collaboration 3
2. Complete a minimum of 9 credits from the following with faculty advisor approval:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH A320</td>
<td>Construction Systems</td>
<td>2</td>
</tr>
<tr>
<td>TECH A325</td>
<td>Transportation Systems</td>
<td>2</td>
</tr>
<tr>
<td>TECH A330</td>
<td>Manufacturing Systems</td>
<td>2</td>
</tr>
<tr>
<td>TECH A335</td>
<td>Communications Systems</td>
<td>2</td>
</tr>
<tr>
<td>TECH A402</td>
<td>Operational Safety</td>
<td>3</td>
</tr>
<tr>
<td>VE A395</td>
<td>Practicum in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>VE A411</td>
<td>Philosophical Foundations of Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>VE A443</td>
<td>Methods of Instruction in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>VE A452</td>
<td>Student Teaching; Vocational Education</td>
<td>12</td>
</tr>
</tbody>
</table>

2. Complete 6 credits consisting of an Alaska History course (3 cr.) and a Multicultural Education course (3 cr.) approved by the Alaska Department of Education.

3. A total of 151 credits is required for the Teacher Education Option, of which 42 credits must be upper-division.

**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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT A201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON A201</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON A202</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Upper-division BA courses for which prerequisites are met</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>TECH A433</td>
<td>Project Design, Implementation, and Control (3)</td>
<td>6</td>
</tr>
<tr>
<td>TECH A443</td>
<td>Total Quality Leadership (3)</td>
<td></td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH A402</td>
<td>Operational Safety</td>
<td>3</td>
</tr>
<tr>
<td>TECH A422</td>
<td>Senior Project</td>
<td>3</td>
</tr>
<tr>
<td>TECH A433</td>
<td>Project Design, Implementation, and Control (3)</td>
<td>3</td>
</tr>
<tr>
<td>VE A301</td>
<td>Principles of Technology</td>
<td>3</td>
</tr>
<tr>
<td>VE A403</td>
<td>A108 Trigonometry (3)</td>
<td></td>
</tr>
</tbody>
</table>

2. Complete a minimum of 9 credits from the following with faculty advisor approval:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AET A381</td>
<td>Geographic Information Systems: Technology and Applications (4)</td>
<td>9</td>
</tr>
<tr>
<td>ANTH A455</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>AT A332</td>
<td>Transport Aircraft Systems</td>
<td>3</td>
</tr>
<tr>
<td>AT A361</td>
<td>Federal Aviation Administration</td>
<td>3</td>
</tr>
<tr>
<td>AT A362</td>
<td>Aerosdynamics and Flight Performance</td>
<td>3</td>
</tr>
<tr>
<td>AT A364</td>
<td>Avionics Systems</td>
<td>3</td>
</tr>
<tr>
<td>AT A420</td>
<td>Air Transportation System</td>
<td>3</td>
</tr>
<tr>
<td>AT A431</td>
<td>Aircraft Accident Investigation</td>
<td>3</td>
</tr>
<tr>
<td>DH A320</td>
<td>Dental Health Services</td>
<td>2</td>
</tr>
<tr>
<td>DH A395</td>
<td>Clinical Practicum IV for Dental Hygienists (1-3)</td>
<td></td>
</tr>
<tr>
<td>DH A420</td>
<td>Community Dental Health</td>
<td>3</td>
</tr>
<tr>
<td>DH A495</td>
<td>Alternative Practicum for Dental Hygienists (2)</td>
<td></td>
</tr>
<tr>
<td>ET A340</td>
<td>Microcontroller Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ET A350</td>
<td>Federal Licensing Preparation</td>
<td>4</td>
</tr>
<tr>
<td>HS/SOC A370</td>
<td>Medical Sociology</td>
<td>3</td>
</tr>
<tr>
<td>HS A379</td>
<td>Health Data Analysis</td>
<td>4</td>
</tr>
<tr>
<td>HS/NS A433</td>
<td>Health Education: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>TECH A310</td>
<td>NDE for Managers and Technicians</td>
<td>3</td>
</tr>
<tr>
<td>TECH A414</td>
<td>Accident Investigation</td>
<td>4</td>
</tr>
<tr>
<td>TECH A416</td>
<td>Safety Appraisal Methodology</td>
<td>3</td>
</tr>
<tr>
<td>VE/TECH A412</td>
<td>Advanced Technical Experiences (1-9)*</td>
<td>6</td>
</tr>
<tr>
<td>VE/TECH A495</td>
<td>Technical Internship (3)*</td>
<td>6</td>
</tr>
<tr>
<td>WELD A310</td>
<td>Applied Evaluation of Components and Materials</td>
<td>3</td>
</tr>
<tr>
<td>WELD A410</td>
<td>Advanced Nondestructive Testing</td>
<td>3</td>
</tr>
</tbody>
</table>

*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.

**AIRWAY SCIENCE OPTION**

Note: The Technology Program is undergoing curriculum changes. Contact department.

Airway Science students may complete MATH A107 College Algebra (4) and MATH A272 Calculus for Managerial Sciences (3) to fulfill the BST core requirements in math. Please note that MATH A108 Trigonometry is required for some of the AT selectives listed below in section 2.

Careful academic advising will ensure fulfillment of the degree requirements. Consult the specific Associate of Applied Science program faculty advisor for assistance in designing your lower division program of study.

Note: Total credits needed for graduation may increase unless Airway Science Option students take at least 6-12 credits of upper-division work in the fulfillment of General Education Requirements and Natural Sciences/Quantitative Skills Requirements.

1. Complete the following required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS A253</td>
<td>Applied Statistics for the Sciences</td>
<td>3-4</td>
</tr>
<tr>
<td>or</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>AT A310</td>
<td>Human Factors in Aviation</td>
<td>3</td>
</tr>
<tr>
<td>AT A495</td>
<td>Aviation Internship II (1-3)</td>
<td>3</td>
</tr>
<tr>
<td>BA A300</td>
<td>Organizational Theory and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BA A361</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BA A461</td>
<td>Negotiations and Conflict Management</td>
<td>3</td>
</tr>
<tr>
<td>PHYS A123/L</td>
<td>Basic Physics I (4)</td>
<td>3-4</td>
</tr>
<tr>
<td>or</td>
<td>Principles of Technology</td>
<td>3</td>
</tr>
<tr>
<td>TECH A443</td>
<td>Total Quality Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Select a minimum of 9 credits from the following courses with faculty advisor approval:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT A332</td>
<td>Transport Aircraft Systems</td>
<td>3</td>
</tr>
<tr>
<td>AT A362</td>
<td>Aerodynamics and Flight Performance</td>
<td>3</td>
</tr>
<tr>
<td>AT A420</td>
<td>Air Transportation Systems</td>
<td>3</td>
</tr>
<tr>
<td>AT A431</td>
<td>Aircraft Accident Investigation</td>
<td>3</td>
</tr>
<tr>
<td>AT A490</td>
<td>Advanced Topics in Aviation</td>
<td>1-6</td>
</tr>
</tbody>
</table>

3. A total of 120-126 credits is required for the Airway Science Option, of which 42 credits must be upper-division.

**FACULTY**

Curtis Sather, Professor, AFCES@uaa.alaska.edu

Ky Holland, Assistant Professor, AFKH@uaa.alaska.edu
1. Complete the following requirements (33 credits):

**TECHNOLOGY**

- **CERTIFICATE, COMPUTER AND NETWORKING**

  1. 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
   
  2. A total of 12 credits is required for the nontranscripted departmental certificate of completion.

**NONTRANScribed DEPARTMENTAL CERTIFICATE OF COMPLETION, CISCO LOCAL ACADEMY NETWORKING**

- **CERTIFICATE, COMPUTER AND NETWORKING**

  1. Complete the following courses:
     - 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
     - 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 courses:
     - BA A101 Introduction to Management (3)
     - BA A231 Fundamentals of Supervision (3)
   
  3. Complete 3 credits from the following courses:
     - PRPE A108 Basic Composition II (3)
     - ENGL A109 Practical Writing (3)
     - ENGL A111 Methods of Written Communications (3)

  (Note: English A111 is required for the AAS degree)

  4. Complete 3 credits from the following courses:
     - CIOS A105 Introduction to PC Computers and Applications (3)
     - CIOS A111D Introduction to Excel in Windows (1)
     - CIOS A111F Introduction to Quickbooks for Windows (1)
     - CIOS A112F Introduction to Microsoft Access in Windows (1)
     - CIOS A113B Introduction to Windows (1)
     - CIOS A114A Introduction to Microsoft PowerPoint (1)
     - CIOS A115G Introduction to Microsoft Word in Windows (1)
     - CIOS A115H Introduction to WordPerfect in Windows (1)
     - CIOS A119 Exploring the Internet (1)
     - CNT A101 Microsoft Office 2000 Fundamentals (2)
     - CNT A190 Selected Topics in MOUS Certifications (1)

  5. Complete 3 credits from the following courses:
     - CS A100 Introduction to Computers (3)
     - CS A105 Introduction to PC Computers and Applications (3)
     - CS A106 Basic Programming (3)
     - CS A109 Selected Computer Languages (3)

  6. A total of 45 credits is required for the certificate.

**CERTIFICATE, TELECOMMUNICATIONS AND ELECTRONICS SYSTEMS**

1. 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 A164 Introduction to Semiconductors 1
   - ET A165 Introduction to Digital Devices 1
   - ET A166 Technical Calculations & Applications 2
   - ET A180 Advanced Semiconductors 3
   - 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 System Troubleshooting 2
   - ET A262 Advanced Communications 3
   - CNT A163 Introduction to Networking 1
   - CNT A164 Network Cabling 1
   - CNT A165 Customer Service Fundamentals 1

2. Complete 3 credits from the following courses:
   - PRPE A108 Basic Composition II (3)
   - ENGL A109 Practical Writing (3)
   - ENGL A111 Methods of Written Communications (3)

  (Note: English A111 is required for the AAS degree)
3. Complete 3 credits from the following: 3
   CIOS A105 Introduction to PC Computers and Applications (3)
   CIOS A111D Introduction to Excel in Windows (1)
   CIOS A111F Introduction to Quickbooks for Windows (1)
   CIOS A112F Introduction to Microsoft Access in Windows (1)
   CIOS A113B Introduction to Windows (1)
   CIOS A114A Introduction to Microsoft PowerPoint (1)
   CIOS A115G Introduction to Microsoft Word in Windows (1)
   CIOS A115H Introduction to WordPerfect in Windows (1)
   CIOS A119 Exploring the Internet (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
See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

A. 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 Requirements (15 credits) listed at the beginning of this chapter.

B. MAJOR REQUIREMENTS
1. 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
   ET A260 Instrumentation & Control Processes 3
   ET A261 Electronic System 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)
   ET A282 Work Study (3)

3. Complete 3 credits from the following: 3
   CIOS A105 Introduction to PC Computers and Applications(3)
   CIOS A111D Introduction to Excel in Windows (1)
   CIOS A111F Introduction to Quickbooks for Windows (1)
   CIOS A112F Introduction to Microsoft Access in Windows (1)
   CIOS A113B Introduction to Windows (1)
   CIOS A114A Introduction to Microsoft PowerPoint (1)
   CIOS A115G Introduction to Microsoft Word in Windows (1)
   CIOS A115H Introduction to WordPerfect in Windows (1)
   CIOS A119 Exploring the Internet (1)
   CNT A101 Microsoft Office 2000 Fundamentals (2)
   CNT A190 Selected Topics in MOUS Certifications (1)

2. A total of 60 or 65 credits is required for the degree.

FACULTY

Paul Alexander, Assistant Professor, AFPDA@uaa.alaska.edu
John Mears, Assistant Professor, AFJRM@uaa.alaska.edu
Barbara Miller, Associate Professor, AFBJM@uaa.alaska.edu
Ray Noble, Associate Professor, AFRON@uaa.alaska.edu
John Rogers, Associate Professor, PFJJR@matsu.alaska.edu
Brian Williams, Assistant Professor, AFBW1@uaa.alaska.edu
The Welding & Nondestructive Testing Technology program prepares students for employment as entry-level technicians in welding and nondestructive inspection.

Welding instruction includes basic theory, weld procedure development, welding applications, weld testing, and metallurgy. Four welding processes, including Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW), are required. Students are required to pass welder qualification tests in three of the four welding processes. Welder qualification tests are administered as prescribed in applicable codes, including the American Society for Mechanical Engineers (ASME), The American Welding Society (AWS), and American Petroleum Institute (API).

Nondestructive testing (NDT) instruction includes dye penetrant (PT), magnetic particle (MT), eddy current (ET), radiography (RT) (with 40 hours of radiation safety training), and ultrasonics (UT). Training and certifications are based on the American Society for Nondestructive Testing (ASNT) Recommended Procedure TC-1A for level-one and level-two technicians. Students are required to pass certification tests in two inspection methods.

Although there are no special admission requirements for the Associate of Applied Science degree program, students are encouraged to contact the Welding and Nondestructive Testing Technology department before enrolling. Students may enter the program in either the Fall or Spring semester (Fall preferred).

Courses are also open to qualified persons who wish to upgrade present job skills. Special material fees are charged for laboratory courses and students are required to purchase personal safety gear and tools. Nontranscripted departmental certificates of completion are offered to students in the Kenai Peninsula Campus in Welding 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.

1. 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):
   - WELD A108 Wire Welding 4
   - WELD A109 TIG Welding 4

   All students must pass structural and pipe certification tests before receiving a certificate in Welding Technology.

3. A total of 28 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, WELDING TECHNOLOGY

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

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 requirements (15 credits) located at the beginning of this chapter. ENGL A212, and MATH A105 are recommended.

MAJOR REQUIREMENTS

1. Complete the following required courses (46 credits):
   - WELD A112 Shielded Metal Arc Welding (SMAW) 4
   - WELD A157 Technical Blueprints for Welders 3
   - WELD A161 Gas Metal Arc Welding (GMAW) 4
   - WELD A162 Flux Cored Welding (FCAW) 4
   - WELD A174 Basic TIG Welding 4
   - WELD A175 Welding Processes and Equipment 4
   - WELD A261 Ultrasonic Testing 4
   - WELD A262 General Nondestructive Testing 3
   - WELD A263 X-Ray and Radioisotopes Radiography 4
   - WELD A281 Welding Inspection and Code Review 4
   - WELD A287 Welding Metallurgy Applications 5
   - VE A301 Principles of Technology 3

2. Complete 2 credits of any WELD or CIOS course(s) (100-level or above)

3. Students are required to certify in three welding processes and two nondestructive testing methods.
4. A total of 63 credits are required for the degree.

FACULTY

Robert McCauley, Associate Professor, AFRDM@uaa.alaska.edu
Eli van Ringelenstein, Term Instructor, AFEVR@uaa.alaska.edu
Ray Shepard, Term Assistant Professor, AFRRS@uaa.alaska.edu
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;
- The first two years of a program in Electrical Engineering;
- The first two years of a program in Mechanical Engineering;
- A 2-year program leading to an Associate of Applied Science in Geomatics; and
- A 4-year program leading to a Bachelor of Science in Geomatics

**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 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 and geodesy; 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 simulated projects. Throughout the four-year engineering program students take courses to develop 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;
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;
12. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

ADMISSION REQUIREMENTS

Entering first year students should have completed the Baccalaureate Degree Program Admission Requirements at the beginning of this chapter. In addition, students entering the undergraduate engineering program must have completed the following high school courses with grades of “C” or better.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3 yrs</td>
</tr>
<tr>
<td>Algebra</td>
<td>2 yrs</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>1/2 yrs</td>
</tr>
<tr>
<td>Physics</td>
<td>1 yrs</td>
</tr>
<tr>
<td>Chemistry</td>
<td>1 yrs</td>
</tr>
</tbody>
</table>

It is recommended that the 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 an undergraduate program of the School of Engineering may take courses in Engineering Science and/or Civil Engineering at the 200-level or above. Students not admitted to a School of Engineering 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.

Baccalaureate degree candidates in the School of Engineering must have a minimum GPA of 2.00 for all required 300- and 400-level Engineering courses taken at UAA.

A student who is unable to earn a satisfactory grade in an engineering course during their initial enrollment may attempt to earn a satisfactory grade one additional time, on a space-available basis.

A student who has a semester GPA in engineering courses below 2.0 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, they will be disqualified from further study in the School of Engineering and will not be permitted to attend Engineering 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 Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees (GER) listed at the beginning of this chapter. Of the 15 credits required for Social Sciences, Humanities and Fine Arts, at least 6 credits must be completed at an advanced level (200) or above; however, this 6 credit advanced level course requirement could also be met by taking sequence courses at the 100-level or above. For example, HIST A101 may be followed by HIST A102, in which case HIST A102 would count as 3 credits of the 6 credit advanced level course requirement.

C. MAJOR REQUIREMENTS

1. Complete these required courses (120 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE A334</td>
<td>Properties of Materials</td>
<td>3</td>
</tr>
<tr>
<td>CE A344</td>
<td>Water Resources Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE A402</td>
<td>Transportation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE A422</td>
<td>Foundation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE A431</td>
<td>Structural Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CE A432</td>
<td>Steel Design</td>
<td>3</td>
</tr>
<tr>
<td>CE A433</td>
<td>Reinforced Concrete Design</td>
<td>3</td>
</tr>
<tr>
<td>CE A435</td>
<td>Soil Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CE A438</td>
<td>Design of Engineering Systems</td>
<td>3</td>
</tr>
<tr>
<td>CE A441</td>
<td>Sanitary Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A105</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A105L</td>
<td>General Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM A106</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A106L</td>
<td>General Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENGL A111</td>
<td>Methods of Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENGL A211*</td>
<td>Academic Writing About Literature</td>
<td>3</td>
</tr>
<tr>
<td>ES A103</td>
<td>Engineering Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ES A111</td>
<td>Engineering Science</td>
<td>3</td>
</tr>
<tr>
<td>ES A201</td>
<td>Computer Techniques</td>
<td>3</td>
</tr>
<tr>
<td>ES A209</td>
<td>Engineering Statics</td>
<td>3</td>
</tr>
<tr>
<td>ES A210</td>
<td>Engineering Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ES A302</td>
<td>Engineering Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ES A309</td>
<td>Elements of Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ES A331</td>
<td>Mechanics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>ES A341</td>
<td>Fluid Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>ES A346</td>
<td>Basic Thermodynamics</td>
<td>3</td>
</tr>
</tbody>
</table>
2. A Natural Science elective (minimum 3 credits) must be taken in addition to the 7 credit Natural Sciences General Education Requirement GEOL A111 is recommended. However, with the consent of an academic advisor, students may choose from the following list of alternative courses:

- BIOL A115 Fundamentals of Biology I (4)
- BIOL A371 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.

Of the required six (6) credits of technical elective required, two (2) of the credits must consist of substantial design training and/or experience. The amount of “design credit” is indicated for each course on the acceptable technical elective course list that follows.

Design Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE A404</td>
<td>Highway Engineering</td>
<td>2</td>
</tr>
<tr>
<td>CE A434</td>
<td>Timber Design</td>
<td>3</td>
</tr>
<tr>
<td>CE A442</td>
<td>Environment System Design</td>
<td>2</td>
</tr>
<tr>
<td>CE A636</td>
<td>Multi-Story Building Structural Design</td>
<td>3</td>
</tr>
<tr>
<td>CE A675</td>
<td>Design of Ports and Harbors</td>
<td>3</td>
</tr>
<tr>
<td>CE A681</td>
<td>Frozen Ground Engineering</td>
<td>2</td>
</tr>
<tr>
<td>CE A684</td>
<td>Arctic Utility Distribution</td>
<td>2</td>
</tr>
<tr>
<td>EQE A605</td>
<td>Chemical and Physical Water and Wastewater Treatment Processes</td>
<td>1</td>
</tr>
<tr>
<td>EQE A606</td>
<td>Biological Treatment Processes</td>
<td>1</td>
</tr>
<tr>
<td>ESM A401</td>
<td>Cost Estimating</td>
<td>1</td>
</tr>
<tr>
<td>GEO A456</td>
<td>Geomatics and Civil Design</td>
<td>2</td>
</tr>
</tbody>
</table>

4. A total of 132 credits is required for the degree, of which 42 credits must be upper-division.

5. All senior Engineering students are encouraged to take the Fundamentals of Engineering Examination as a preliminary step toward professional registration.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is highly recommended students follow this course sequence:

**First Year**

**Fall Semester (17 credits):**

- CHEM A105 General Chemistry I: 3 credits
- CHEM A105L General Chemistry I Lab: 1 credit
- ENGL A111 Methods of Written Communication: 3 credits
- ES A103 Engineering Graphics: 3 credits
- ES A111 Engineering Science: 3 credits
- MATH A200 Calculus I: 4 credits

**Spring Semester (17 credits):**

- CHEM A106 General Chemistry II: 3 credits
- CHEM A106L General Chemistry II Lab: 1 credit
- ES A201 Computer Techniques: 3 credits
- GEO A166 Elements of Geomatic Measurements: 3 credits
- MATH A201 Calculus II: 4 credits
- COMM A111, A235, A237, or A241: 3 credits

**Second Year**

**Fall Semester (17 credits):**

- ENGL A211 Academic Writing about Literature: 3 credits
- ES A209 Engineering Statics: 3 credits
- MATH A202 Calculus III: 4 credits
- PHYS A211 General Physics I: 3 credits
- PHYS A211L General Physics I Lab: 1 credit
- Social Sciences/Humanities/Fine Arts GER: 3 credits

**Spring Semester (16 credits):**

- ES A210 Engineering Dynamics: 3 credits
- ES A302 Engineering Data Analysis: 3 credits
- MATH A302 Ordinary Differential Equations: 3 credits
- PHYS A212 General Physics II: 3 credits
- PHYS A212L General Physics II Lab: 1 credit
- Social Sciences/Humanities/Fine Arts GER: 3 credits

**Third Year**

**Fall Semester (16 credits):**

- CE A334 Properties of Materials: 3 credits
- ES 309 Elements of electrical Engineering: 3 credits
- ES A331 Mechanics of Materials: 3 credits
- ES A341 Fluid Mechanics: 4 credits
- Social Sciences/Humanities/Fine Arts GER: 3 credits

**Spring Semester (16 credits):**

- CE A344 Water Resources Engineering: 3 credits
- CE A431 Structural Analysis: 4 credits
- CE A435 Soil Mechanics: 3 credits
- ES A346 Basic Thermodynamics: 3 credits
- Social Sciences/Humanities/Fine Arts GER: 3 credits

**Fourth Year**

**Fall Semester (18 credits):**

- CE A402 Transportation Engineering: 3 credits
- CE A432 Steel Design: 3 credits
- CE A441 Sanitary Engineering: 3 credits
- Natural Sciences Elective: 3 credits
- Technical Elective: 3 credits
- Social Sciences/Humanities/Fine Arts GER: 3 credits

**Spring Semester (15 credits):**

- CE A422 Foundation Engineering: 3 credits
- CE A433 Reinforced Concrete Design: 3 credits
- CE A438 Design of Engineering Systems: 3 credits
- ESM A450 Economic Analysis and Operations: 3 credits
- Technical Elective: 3 credits
ELECTRICAL ENGINEERING

www.engr.uaa.alaska.edu
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 Baccalaureate Degree Programs Admission Requirements located at the beginning of this chapter. 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
- **ENGL A213** Writing in the Social and Natural Sciences (3)
- **COMM A111** Fundamentals of Oral Communication (3) 3
- **COMM A235** Small Group Communication (3)
- **COMM A237** Interpersonal Communication (3)
- **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 103 (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.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is highly recommended that students follow the course sequence shown below:

**First Year**

| Fall Semester (17 credits) |  
|---------------------------|------------------|
| **CHEM A105** General Chemistry I | 3 |
| **CHEM A105L** General Chemistry I Lab | 1 |
| **ENGL A111** Methods of Written Communication | 3 |
| **MATH A111** Engineering Science | 3 |
| **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 |
| **COMM A111, A235, A237 or A241** | 3 |

**Second Year**

| Fall Semester (18 credits) |  
|---------------------------|------------------|
| **EE A203** Fundamentals of Electrical Engineering I | 4 |
| **ENGL A211 or A213** | 3 |
| **ES A209** Engineering Statics | 3 |
| **MATH A202** Calculus III | 4 |
| **PHYS A211** General Physics I | 3 |
| **PHYS A211L** General Physics I Lab | 1 |
| **ENGL A211** Academic Writing About Literature (3) | 3 |
| **ENGL A213** Writing in the Social and Natural Sciences (3) | 3 |
| **COMM A111** Fundamentals of Oral Communication (3) | 3 |
| **COMM A235** Small Group Communication (3) | 3 |
| **COMM A237** Interpersonal Communication (3) | 3 |
| **COMM A241** Public Speaking (3) | 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 |
| **Social Science/Humanities/Fine Arts** | 3 |

Spring Semester (17 credits)

| First Year |  
|---------------------------|------------------|
| **EE A203** Fundamentals of Electrical Engineering II | 4 |
| **ES A210** Engineering Dynamics | 3 |
| **MATH A302** Differential Equations | 3 |
| **PHYS A212** General Physics II | 3 |
| **PHYS A212L** General Physics II Lab | 1 |

** Those courses selected to meet the requirements in the areas of Social Sciences/Humanities/Fine Arts must be included in the list of courses that meet the UAA General Education Requirements in these areas. Further, the selected courses should be approved by the student’s advisor.

FACULTY

Tom Miller, Professor-E.E., AFTPM@uaa.alaska.edu
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 Associate of Applied Science degree in Geomatics should prepare for entrance into the program by completing the following high school courses:

- Mathematics
  - Algebra II
- English
  - Composition (Skill level as demonstrated by ACT, SAT, or UAA placement test to qualify for enrollment in ENGL A111).

Students seeking the Bachelor of Science degree in Geomatics should prepare for entrance into the program by completing the following high school courses:
CERTIFICATE, GEOGRAPHIC INFORMATION SYSTEMS

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

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.

1. 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 A370 GIS and Remote Sensing for Natural Resources 3
   - GIS A458 Design and Management of Spatial Data 3
   - GEO A460 Geomatics Design Project 3

2. Complete 9 credits from the following elective courses: 9
   - GIS A333 GIS and the Marine Environment (3)
   - GIS A369 Land Information Systems (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)
   - GIS A495 Internship in Geographic Information Systems II (3)
   - GEO A490 Selected Advanced Topics in Geomatics (3)

3. A maximum of 3 credits of Internship (GIS A295 or A495) and 3 credits of Advanced Topics in Geomatics (GEO A490) can be counted toward the Certificate in GIS. Faculty approval of the GEO A490 topic is necessary for application of the course to the Certificate program.

4. A total of 32 credits is required for the Certificate in GIS.

ASSOCIATE OF APPLIED SCIENCE, GEOMATICS

ADMISSION REQUIREMENTS

1. See the beginning of this chapter for information on formal admission to undergraduate programs.
2. This degree requires computer competency which may be demonstrated prior to enrollment in any GEO or GIS course for which computer competency is a prerequisite.

GENERAL UNIVERSITY REQUIREMENTS

Complete the Associate of Applied Science 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 one of the following: 3
   - CS A105 FORTRAN Programming (3)
   - CS A107 Pascal Programming (3)

3. Complete the following required courses: 3
   - ENGL A212 Technical Writing
   - MATH A108 Trigonometry
   - MATH A200 Calculus I
   - GEO A137 Principles of Mapping
   - GEO A155 Introduction to Geomatics
   - GEO A157 Analytical and Digital Cartography
   - GEO A158 Geomatics Computer Fundamentals
   - GEO A166 Elements of Geomatics Measurements.
   - GEO A167 Remote Sensing and Image Analysis
   - GEO A248 Digital Terrain Cartography
   - GEO A256 Municipal and Civil Geomatics
   - GEO A257 Elements of Photogrammetry
   - GEO A267 Boundary Law I
   - GIS A268 Elements of Geographic Information Systems (GIS) 4

4. A total of 61 credits is required for this degree.

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www.uaa.alaska.edu

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RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is highly recommended that students follow the course sequence shown below:

**First Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>GEO A137 Principles of Mapping</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEO A155 Introduction to Geomatics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEO A157 Analytical and Digital Cartography</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEO A158 Geomatics Computer Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH A108 Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>ENGL A111 Methods of Written Communications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEO A166 Elements of Geomatics Measurements</td>
<td>4</td>
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<td></td>
<td>GEO A167 Remote Sensing &amp; Image Analysis</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MATH A200 Calculus I</td>
<td>4</td>
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</table>

**Second Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>GEO A256 Municipal and Civil Geomatics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>GEO A257 Elements of Photogrammetry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHYS A123/L Basic Physics I (4)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PHYS A211/L General Physics I (4)*</td>
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<tr>
<td></td>
<td>COMM A111 Fundamentals of Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COMM A235 Small Group Communication</td>
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<td></td>
<td>COMM A237 Interpersonal Communication</td>
<td></td>
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<tr>
<td></td>
<td>COMM A241 Public Speaking</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course selected from:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CS A105 FORTRAN Programming</td>
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<tr>
<td></td>
<td>CS A107 Pascal Programming</td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td>ENGL A212 Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEO A248 Digital Terrain Cartography</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEO A267 Boundary Law I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>GIS A268 Elements of Geographic Information</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Systems (GIS)</td>
<td></td>
</tr>
</tbody>
</table>

*Note: PHYS A211 requires high school physics or PHYS A123 and Math A200 as prerequisites. Math A201 is required as a corequisite.

**BACHELOR OF SCIENCE, GEOMATICS**

**ADMISSION REQUIREMENTS**

1. See the beginning of this chapter for information on formal admission to undergraduate programs.
2. This degree requires computer competency which may be demonstrated prior to enrollment in any GEO or GIS course for which computer competency is a prerequisite.

**A. GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for 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:
   - PHYS A123 Basic Physics I (3)
   - PHYS A123L Basic Physics I Laboratory (1)
   - PHYS A124 Basic Physics II (3)
   - PHYS A124L Basic Physics II Laboratory (1)
   - PHYS A211 General Physics I (3)
   - PHYS A211L General Physics I Laboratory (1)
   - PHYS A212 General Physics II (3)
   - PHYS A212L General Physics II Laboratory (1)
   These credits must be in addition to the 7 Natural Sciences credits taken to complete the General Education Requirement.

2. Complete one of the following:
   - CS A105 FORTRAN Programming (3)
   - CS A107 Pascal Programming (3)

3. Complete the following:
   - CS A207 C Programming (3)
   - ENGL A212 Technical Writing (3)

4. Complete all of the following:
   - MATH A200 Calculus I (4)
   - MATH A201 Calculus II (4)
   - MATH A202 Calculus III (4)

5. Complete one of the following:
   - MATH A302 Ordinary Differential Equations (3)
   - MATH A314 Linear Algebra (3)
   - AS A307 Probability and Statistics (3)

6. Complete all of the following:
   - GEO A137 Principles of Mapping (3)
   - GEO A155 Introduction to Geomatics (3)
   - GEO A157 Analytical and Digital Cartography (3)
   - GEO A166 Elements of Geomatics Measurements (4)
   - GEO A167 Remote Sensing and Image Analysis (4)
   - GEO A248 Digital Terrain Cartography (3)
   - GEO A256 Municipal and Civil Geomatics (4)
   - GEO A257 Elements of Photogrammetry (3)
   - GEO A267 Boundary Law I (4)
   - GEO A355 Land Development and Design (3)
   - GEO A359 Geodesy and Map Projections (3)
   - GEO A365 Geomatic Adjustment and Analysis (4)
   - GEO A457 Boundary Law II (4)
   - GEO A460 Geomatics Design Project (3)
   - GEO A466 Geopositioning (4)
   - GIS A268 Elements of Geographic Information Systems (GIS) (4)
   - GIS A366 Spatial Information Analysis and Modeling (3)

7. Complete at least 12 credits in one of the emphasis areas.

**Survey Geomatics Emphasis**

1. Complete the following:
   - GEO A358 Programming for Digital Cartography (3)
2. Complete 9 credits from the following:  
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)  
2. Complete 9 credits from the following:  
GEO A490 Selected Advanced Topics in Geomatics (1-6)  
GIS A468 Integration of Geomatic Technologies (3)  
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 A470 GIS for Facility Management and Transportation Systems (3)

A total of 131 credits is required for the degree of which 42 must be upper division.

Recommended Course Sequence  
To accommodate course prerequisites and scheduling, it is highly recommended that students follow the course sequence shown below:

First Year  
Fall Semester (16 credits)  
GEO A137 Principles of Mapping (3)  
GEO A155 Introduction to Geomatics (3)  
GEO A157 Analytical and Digital Cartography (3)  
MATH A200 Calculus I (4)  
Complete one of the following:  
COMM A111 Fundamentals of Oral Communication (3)  
COMM A235 Small Group Communication (3)  
COMM A237 Interpersonal Communication (3)  
COMM A241 Public Speaking (3)

Spring Semester (18 credits)  
ENGL A111 Methods of Written Communication (3)  
GEO A166 Elements of Geomatics Measurements (4)  
GEO A167 Remote Sensing and Image Analysis (4)  
MATH A201 Calculus II (4)  
Complete one of the following:  
CS A105 FORTRAN Programming (3)  
CS A107 Pascal Programming (3)

Second Year  
Fall Semester (18 credits)  
CS A207 C Programming (3)  
GEO A256 Municipal and Civil Geomatics (4)  
GEO A257 Elements of Photogrammetry (3)  
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)  
MATH A202 Calculus III (4)

Spring Semester (18 credits)  
GEO A248 Digital Terrain Cartography (3)  
GEO A267 Boundary Law I (4)  
GIS A268 Elements of Geographic Info. Systems (GIS) (4)  
ENGL A212 Technical Writing (3)  
PHYS A124 Basic Physics II (3)  
PHYS A124L Basic Physics II Laboratory (1)  
or  
PHYS A212 General Physics II (3)  
PHYS A212L General Physics II Lab (1)

Third Year  
Fall Semester (15-18 credits)  
GEO A355 Land Development and Design (3)  
GEO A359 Geodesy and Map Projections (3)  
GIS A366 Spatial Information Analysis and Modeling (3)  

GEO Emphasis  
GEO A358 Programming for Digital Cartography (3)  
*Only GEO emphasis students must take.

Complete one of the following:  
MATH A314 Linear Algebra (3)  
MATH A302 Ordinary Differential Equations (3)  
AS A307 Probability and Statistics (3)

Elective - Natural Science GER (3)

Spring Semester (17 credits)  
GEO A365 Geomatic Adjustment and Analysis (4)

GIS Emphasis:  
GIS A458 Design & Management of Spatial Data (3)  
GIS Elective (3)

GEO Emphasis:  
GEO Electives (6)  
Natural Science - Elective (with Lab) GER (4)  
Elective - Fine Arts GER (3)

Fourth Year  
Fall Semester (16 credits)  
GEO A457 Boundary Law II (4)  
GEO A460 Geomatics Design Project (3)  
Select 3 credits from the GEO or GIS emphasis elective courses.

Elective-Humanities GER (3)  
Elective-Social Science GER (3)

Spring Semester (13 credits)  
GEO A466 Geopositioning (4)

GEO Emphasis:  
GEO Elective (3)  
GIS Elective (3)

GEO Emphasis:  
GEO Elective (3)  
Elecite-Humanities GER (3)  
Elective-Social Science GER (3)

FACULTY

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MECHANICAL ENGINEERING
www.engr.uaa.alaska.edu
Engineering Building (ENGR), Room 201, (907) 786-1900

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 Baccalaureate Degree Programs Admission Requirements located at the beginning of this chapter. 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 A201 Computer Techniques: 3
- ES A209 Engineering Statics: 3
- ES A210 Engineering Dynamics: 3
- ES A331 Mechanics of Materials: 4
- ES A346 Basic Thermodynamics: 3
- 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.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is highly recommended that students follow the course sequence shown below:
First Year

Fall Semester (17 credits):
- CHEM A105 General Chemistry I 3
- CHEM A105L General Chemistry I Laboratory 1
- ENGL A111 Methods of Written Communication 3
- ES A111 Engineering Science 3
- MATH A200 Calculus I 4
- Social Science/Humanities/Fine Arts** 3

Spring Semester (17 credits):
- CHEM A106 General Chemistry II 3
- CHEM A106L General Chemistry II Laboratory 1
- COMM A111, A235, A237 or A241 3
- ES A201 Computer Techniques 3
- MATH A201 Calculus II 4
- Social Science/Humanities/Fine Arts** 3

Second Year

Fall Semester (17 credits):
- ENGL A211 or A213 3
- ES A209 Engineering Statics 3
- MATH A202 Calculus III 4
- PHYS A211 General Physics I 3
- PHYS A211L General Physics I Laboratory 1
- Social Science/Humanities/Fine Arts** 3

Spring Semester (17 credits):
- ES A210 Engineering Dynamics 3
- ES A331 Mechanics of Materials 4
- ES A346 Basic Thermodynamics 3
- MATH A302 Differential Equations 3
- PHYS A212 General Physics II 3
- PHYS A212L General Physics II Laboratory 1

** These courses selected to meet the requirements in the areas of Social Sciences/Humanities/Fine Arts must be included in the list of courses that meet the UAA General Education Requirements in these areas. Further, the selected courses should be approved by the student's advisor.
CHAPTER 10

GRADUATE ADMISSION AND DEGREE PROGRAMS

Graduate School
Graduate General University Requirements
Graduate Programs by Schools and Colleges
GRADUATE SCHOOL

Graduate education is an integral part of the University of Alaska Anchorage (UAA). 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 program, students will have demonstrated mastery of their disciplines. They will have participated in quality research activities either in the completion of their theses or the development of their graduate projects. 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.

ADMISSION REQUIREMENTS

Students who have earned or have nearly completed a baccalaureate degree from a regionally accredited institution in the United States, or a foreign equivalent, may apply for admission to graduate study or to fifth year certification programs at UAA.

Admission is granted to applicants who have received their baccalaureate degree and whose credentials indicate their ability to pursue graduate work. Each graduate program has specific standards for admission. Applicants must have either a cumulative grade point average (GPA) of 3.00 (B average on a 4.00 scale), or alternatively meet the GPA admission requirements of the specific graduate program to which they are applying. Some programs also require scores from national admissions examinations, such as the Graduate Record Examination (GRE) or the Miller’s Analogy Test (MAT). Additional information, such as writing samples, goal statements, letters of recommendation, research proposals, and/or an interview may be required by specific programs.

Actual deadlines for submission of the admission materials vary by program. No more than nine (9) credits may be completed in the student’s graduate program before application for admission. Upon receipt of the required information, Enrollment Services will forward each student’s application packet, consisting of the academic records and test scores, to the Dean or designee of the specific program for consideration. All of these materials become the property of UAA and are only released or copied for use within the University of Alaska system. Additional departmental admission requirements requested by the student’s school or college are to be submitted directly to the Program Coordinator.

APPLICATION FOR ADMISSION

When making application for admission to UAA, the student must submit the following directly to Enrollment Services:

1. A completed UAA Graduate Application for Admission and appropriate fee.
2. Official transcript(s), reflecting completion and conferral of all baccalaureate degrees and any transcripts reflecting graduate level courses. Individual graduate programs may require additional transcripts. Transcripts are to be requested by the student and must be submitted in an officially sealed envelope. Students do not need to request transcripts for UAA, UAS or UAF.
3. If required by the specific graduate program, official scores from entrance exams, such as the Graduate Records Exam (GRE) or the Miller’s Analogy Test (MAT). Official scores are to be requested by the student and sent directly by the testing agency.
4. Scores from the Test of English as a Foreign Language (TOEFL) if English is not the applicant’s native language or was not the language of instruction for the applicant’s baccalaureate degree. TOEFL may be waived if the applicant has been a long-term resident of the United States or of another English-speaking country.
5. Prior to being accepted, an applicant with a transcript from an institution outside the United States or Canada must provide an official statement of equivalency from a recommended credentials evaluation service and, if necessary, an English translation of the transcript. A fee is normally required by the evaluation service and is paid directly to them. The amount varies depending upon the type and complexity of the evaluation.

ADDITIONAL DEPARTMENTAL ADMISSION REQUIREMENTS

Specific graduate programs may require additional materials or admission requirements that are to be submitted directly to or arranged with the program chair. Please contact the department for details.

Examples are as follows:

1. Departmental application for admission.
2. Personal interview.
3. Statements detailing the applicant’s graduate plans and expectations.
4. Writing samples.
5. Letters of recommendation from professors or others particularly qualified to attest to the applicant’s qualifications for graduate study.
6. Research proposals or other information indicative of the applicant’s potential for graduate study.

FORMAL ACCEPTANCE TO GRADUATE 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, Director and/or faculty of the program, who inform 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).
**Conditional Admission**

Students who expect to receive their baccalaureate degree from a regionally accredited institution within two semesters (up to three semesters if including summer) may apply for admission to a graduate program. Formal acceptance becomes final only after the baccalaureate degree is completed and conferred, and all other requirements for admission are met.

Students who show potential for success in graduate studies but do not meet all the admission requirements of a program may be conditionally admitted. Conditions are established by the Dean, Director and faculty of the program, who are responsible for monitoring conditional status. Enrollment Services sends the Certificate of Conditional Admission directly to the applicant. If the requirements to remove the terms of conditional admission are not satisfied, the student may be removed from graduate degree-seeking status. All terms of conditional admission must be satisfied prior to advancement to candidacy.

**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 degree program. Non-degree-seeking students may not qualify for some financial aid benefits or the International Student Form I-20 A.

**Transfer Credits**

Up to 9 semester credits not previously used to obtain any other degree or certificate may be transferred to UAA from a regionally accredited institution and accepted toward a graduate degree or certificate. Quarter credits will be converted to semester credits by multiplying quarter credits by two-thirds. Acceptance of transfer credits toward program requirements is at the discretion of the individual program.

**Changing Degree Programs**

Graduates 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 a particular 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 their new major or emphasis area.

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

**Changing Majors or Emphasis Areas**

Students who wish to change majors or emphasis areas within the same degree and school or college, such as from an M.Ed. in Master Teacher to an M.Ed. in Special Education may do so by completing a Graduate Change of Major or Emphasis Area form through Enrollment Services. Students will be expected to meet all admission and program requirements of their new major or emphasis area. Students who change their major or emphasis area after being advanced to candidacy must submit a revised Official Graduate Studies Plan to Enrollment Services through their advisor/committee.

**Graduate Advisor**

The Dean or designee of the appropriate school/college offering the graduate program appoints a Graduate Advisor for each student accepted to a graduate program. In some graduate programs not requiring a thesis or major research project, the advisor may fill the role of the Graduate Studies Committee.

**Graduate Studies Committee**

For graduate programs with a thesis or major 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 3 UAA faculty including the chair, who shall normally be a full-time faculty member. One faculty committee member may be from a discipline outside the student’s school or college. Additional members who are not UAA faculty, but have 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 and/or Committee**

The division of responsibility between the advisor and/or committee is determined at the program level. The graduate advisor and/or committee will:

1. Review the graduate student’s Official Graduate Studies Plan, insuring that it includes: the Graduate General University Requirements; University Requirements for Graduate Degrees; all courses required for the degree or certificate; a thesis or major research project, if required; a written or oral comprehensive examination, or thesis/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 or major 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 and/or thesis 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 graduate degree or certificate. The plan is based upon the catalog requirements for the graduate degree or certificate program to which the student has been accepted. The plan becomes official once it is approved by the Dean, Director and/or faculty of the program and is filed with Enrollment Services. Students are expected to complete all requirements listed on their Official Graduate Studies Plan, as well as all Graduate General University Requirements and University Requirements for Graduate 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, Director and/or faculty of the program. Candidacy is the point in a graduate study program at which the student has demonstrated an ability to master the subject matter in the program and has progressed to the level at which a graduate studies plan can be approved. To be approved for candidacy a student must:

1. Be in good standing as defined in the Good Standing policy.
2. Demonstrate competence in the methods and techniques of the discipline.
3. Receive approval of the thesis or major research project proposal from the student’s Graduate Studies Committee.
4. Satisfy all prerequisites and remove all academic deficiencies.
5. Satisfy all terms of a conditional admission.

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 option of 1. registering for at least one (1) graduate level credit applicable to their graduate degree, or 2. paying the continuous registration fee that will allow students 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 graduate degree seeking status.

LEAVE OF ABSENCE

While graduate students are expected to make continuous progress toward completion of their graduate program, 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 or certificate, 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 graduate degree-seeking status.

APPLICATION FOR GRADUATION

The graduate student must submit an Application for Graduation with the application fee to Enrollment Services no later than the end of week two of the semester in which they intend to graduate. Applications received after the deadline will be processed for the following semester. Students who apply for graduation but do not complete degree or certificate requirements by the end of the semester must re-apply for graduation. The application fee must be paid with each Application for Graduation.

GOOD STANDING

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 their graduate program, or a graduate student who, for reasons specified in writing by the student’s advisor/committee and/or Dean or designee, is not making continuous satisfactory progress toward completing the program requirements will be placed on probation. If the requirements to remove probation are not satisfied within one semester (excluding summer), the student will be removed from graduate degree-seeking status. Each school/college has developed written procedures to deal with appeals arising from removal from graduate degree-seeking status.

REMOVAL FROM GRADUATE DEGREE-SEEKING STATUS

A graduate student’s academic status may be changed to “non-degree-seeking” if the requirements to remove conditional admission or probation are not satisfied or if minimum academic standards are not met. In some cases, students may be removed from graduate 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 Appeals, Chapter 8).
Reinstatement to Graduate Degree-Seeking Status

Graduate students who have been removed from graduate degree-seeking status for failing to meet academic standards may apply for reinstatement to a graduate program after one calendar year from the semester in which they were removed from graduate degree-seeking status. When re-applying to graduate studies, it is the student’s responsibility to demonstrate their ability to succeed in the graduate program.

Graduate students who have been removed from graduate 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 or may not be required to meet the program requirements which are in effect at the time of reinstatement.

Full-Time/Part-Time Status

A student who has been admitted to a UAA graduate program and is enrolled at UAA for 9 or more 600-level credits is classified as full-time. Courses at the 400 level will count toward full-time status only if they are applicable to the degree program. A graduate student enrolled at UAA for less than nine credits is classified as part-time.

Audited courses, Continuing Education Units (CEU’s), and Continuous Registration are not included in the computation of the student’s full-time or part-time status.

Determining Program Requirements

A graduate student’s program is based upon the catalog requirements for the relevant graduate degree or certificate program which are in effect at the time the student was accepted.

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 General University Requirements

General university requirements for all graduate degrees are as follows:

1. A Grade Point Average (GPA) of at least 3.00 (B) must be earned in courses identified in the Official Graduate Studies Plan.
2. 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. Graduate Students enrolled in 400-level courses which they intend to apply to their graduate program will be expected to complete additional course work requirements.
3. In 400-level courses, a minimum grade of “B” is required for the course to count toward the program requirements.
4. Courses at the 500-level are for professional development and are not applicable toward any degree.
5. 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 and 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.
6. Up to 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 or 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.
7. Individual program Deans may allow credit earned at other universities in the Statewide system (i.e. University of Alaska Fairbanks and University of Alaska Southeast), excluding thesis credit and credit used toward another degree or certificate, to be transferred to UAA, as long as at least nine credits applicable to the student’s program are earned at UAA after acceptance into the program.
8. 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 or committee to waive certain courses in an established program, as long as the total credits in the program remain the same.
9. If the requirements for a master’s degree as specified in the entry-level catalog are not met within 7 years of formal acceptance into the program, that program will expire and the student must reapply for admission and meet the requirements in effect at the time of formal acceptance.
10. All credits counted toward the degree or certificate, including transfer credits, must be earned within the consecutive seven-year period prior to graduation.
11. Students are expected to be continuously registered throughout their graduate program (see Continuous Registration).

University Requirements for Graduate Degrees

In addition to the Graduate General University Requirements, all graduate students must meet the following requirements:

1. The students must complete at least 30 approved semester credits beyond the baccalaureate degree. At least 24 credits in every graduate degree must consist of courses other than thesis and/or a research project.
2. The student must complete all requirements established by the program and must pass a written or oral comprehensive examination, or thesis/project defense.
3. When an oral comprehensive examination and/or thesis defense 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 or defense 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 their degree.
4. All theses must meet general UAA requirements for format as determined by the UAA Consortium Library.
GRADUATE ADMISSION AND DEGREE PROGRAMS

UNIVERSITY REQUIREMENTS FOR CERTIFICATES

Some graduate level certificates are available at UAA. The School of Education offers certificates in certain programs through the Department of Education. Requirements vary, and applicants are expected to be aware of and meet the requirements of the program into which they are accepted.

DOCTORAL DEGREES

UAA does not confer doctor’s degrees at this time; however, several cooperative programs exist with other universities, allowing some course work to be completed at UAA and the degree to be granted by the other university.

SCHOOL OR PROGRAM REQUIREMENTS

Requirements vary by individual program. Some programs may be more restrictive than the Graduate General University Requirements or the University Requirements for Graduate Degrees. Students should contact the appropriate school or college for specific program requirements.

ADDITIONAL MASTER’S DEGREES

Students who have received a master’s degree from a regionally accredited college or university may earn another master’s degree by completing at least 21 resident credits beyond the previous master’s degree. The student must meet all the Graduate General University Requirements, University Requirements for Graduate Degrees, School or College Requirements, and Program Requirements; fulfilling all university, college, and program requirements may require more than the minimum of 21 credits beyond the previous master’s degree. If the 21 additional credits and other requirements have been earned for each additional degree, two or more degrees may be awarded simultaneously.

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 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 will submit a UAA Graduate Application for Admission (Interdisciplinary Studies Major) with the appropriate fee to Enrollment Services.

2. The student will develop an interdisciplinary studies proposed program 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 graduate degree from UAA, the student must incorporate into their proposal all Graduate General University Requirements, University Requirements for Graduate Degrees, and any school/college requirements applicable. All such requirements must be satisfied prior to conferral of the degree.

3. The student will select a Graduate Studies Committee of at least 3 faculty members from the appropriate academic disciplines. The committee members and chair must represent all concentration areas of 9 credits or more. The committee members must agree to serve and be approved by the appropriate Dean(s) or designee(s).

4. The student will select 1 faculty member to chair the committee and to serve as their Graduate Advisor. The chair must agree to serve and must be approved by the appropriate Dean(s) or designee(s).

5. The student will present 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 academic 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 Associate Vice Provost for Health Affairs and Research for final approval. If the proposal and committee structure are approved by the Associate Vice Provost for Health Affairs and Research, 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, Director 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 insure 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).
EXCHANGE PROGRAMS

BIOMEDICAL

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 the University of Alaska Anchorage (UAA) and UWSM and receive their entire first year of medical education at the University of Alaska Anchorage. 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 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. For more information concerning WWAMI or a premedical curriculum at UAA, students can contact the office of the Biomedical Program at (907) 786-4789.

WESTERN REGIONAL GRADUATE PROGRAM

UAA participates in the Western Regional Graduate Program (WRGP), a program of the Western Interstate Commission for Higher Education (WICHE). This program makes many high-quality graduate programs available to WICHE-state students at a reasonable cost. More importantly, WRGP includes most of the Western States. Through WRGP, residents of Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming are eligible to enroll at resident tuition in graduate programs in these 14 states. Currently, there are over 100 master’s and doctoral programs. Additional programs may be approved.

Information about the available Western Regional Graduate Programs may be obtained from Enrollment Services. A brochure describing these opportunities is also available from:

WICHE Student Exchange Program
P. O. Drawer P
Boulder, CO 80301-9752

COLLEGE OF ARTS AND SCIENCES

ANTHROPOLOGY

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 part of a larger management framework.

MASTER OF ARTS, ANTHROPOLOGY

ADMISSIONS REQUIREMENTS

See graduate admission requirements. Deadline for application: March 15 for fall admission, November 15 for spring 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
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 assistanships.

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 Master's Level Candidacy Requirements at the beginning of this chapter. 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 the Graduate General University Requirements and University Requirements for Graduate Degrees Policies.

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 internship and/or independent study may be applied to the degree.
5. Submit a written MA Thesis to the graduate committee, conforming to specifications of the UAA Consortium Library.
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:
   A. 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

   B. 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)
C. Cultural Resource Management Track
Complete the following:
ANTH A675 Cultural Resource Management 3
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.

FACULTY
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BIOLOGICAL SCIENCES
www.uaa.alaska.edu/biohome/biology.html
The WWAMI/Biomedical program may be found at www.uaa.alaska.edu/biomed/
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 adjunct advisor from outside the University community.

MASTER OF SCIENCE, BIOLOGICAL SCIENCES

ADMISSION REQUIREMENTS
See the beginning of this chapter for graduate admission requirements and deadlines.
Students seeking admission into the Biological Sciences MS 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. Students should also have had courses in physics, organic chemistry and biochemistry during their undergraduate education to be considered for admission into the graduate program.
3. Student applicants should have at least a 2.5 overall GPA with no grade below C in any college-level science course.
4. Completed UAA graduate application form.
5. Official transcripts of all college-level work.
6. Graduate Record Examination scores (General GRE scores and Biology, Biochemistry or Chemistry Advanced GRE scores).
7. Three letters of recommendation.
8. 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.

GRADUATION REQUIREMENTS
See general university requirements for master’s degree.
**Program Requirements**

1. 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).

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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.

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**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.

**Faculty**

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CLINICAL PSYCHOLOGY

www.uaa.alaska.edu/psych/
College of Arts & Sciences Building (CAS), 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.

1. Research track: training in psychotherapy, research and program evaluation with the goal of leading students toward the pursuit of a doctoral degree in psychology.
2. Clinical track: preparation for a master’s level career in psychotherapy, appreciation of research and critical evaluation of research conducted by others.
3. 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.
4. 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 General University (graduate) Requirements 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 master’s level 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 the beginning of this chapter for master’s level graduation requirements. 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

A. 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
   Select two of the following three:
   - PSY A624 Group Therapy (3)
   - PSY A626 Family Therapy (3)
   - PSY A645 Advanced Psychotherapy Skills (3)
   Electives 4

B. 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:
   - 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.

C. Public Service Track
   Required (22 credits):
   - PSY A624 Group Therapy 3
   - PSY A631 Cognitive Behavior Therapy 3
   - PSY A637 Organizational Environments 3
   - PSY A699B Thesis: Public Service (1-3) 3
   Select two of the following four:
   - 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

D. 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 three:
   - PSY A626 Family Therapy (3)
   - PSY A624 Group Therapy (3)
   - PSY A641 Applications of Community Psychology (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.
RECOMMENDED SEQUENCE

Clinical Track

Fall
PSY A623 Psychotherapy Skills 3
PSY A611 Ethics and Professional Practice 3
PSY A622 Psychopathology 3
PSY A626 Family Therapy 3
Spring
PSY A633 Psychological Assessment 3
PSY A654 Cultural Issues in Psychotherapy 3
PSY A639 Advanced Research Methods 3
PSY A645 Advanced Psychotherapy Skills 3
Advance to Candidacy
Summer
PSY A699C Thesis: Creative Component 1
Fall
PSY A665A Psychotherapy Practicum: Psychological Assessment 1
PSY A689 Advanced Psychological Assessment 3
Elective
PSY A699C Thesis: Creative Component 2
Spring
PSY A624 Group Therapy 3
PSY A631 Cognitive Behavior Therapy 3
or
PSY A635 Advanced Psychodynamic Theory and Therapy 3
PSY A670 Psychotherapy Internship 3-6
Elective (e.g., PSY A612) 3
Summer
PSY A670 Psychotherapy Internship 3-6

Public Service Track

Fall
PSY A623 Psychotherapy Skills 3
PSY A611 Ethics and Professional Practice 3
PSY A622 Psychopathology 3
PSY A638 Child-Clinical Psychology 3
or
PSY A626 Family Therapy 3
Spring
PSY A633 Psychological Assessment 3
PSY A654 Cultural Issues in Psychotherapy 3
PSY A639 Advanced Research Methods 3
PSY A624 Group Therapy 3
Advance to Candidacy
Fall
PSY A641 Application of Community Psychology 3
PSY A699B Thesis: Public Service 1-3
Elective
PSY A665B Psychotherapy Practicum: Psychological Services Center 3
PSY A665A Psychotherapy Practicum: Psychological Assessment 1
Spring
PSY A670 Psychotherapy Internship 3-6
PSY A631 Cognitive Behavior Therapy 3
PSY A637 Organizational Environments 3
Elective
Finish Thesis
Summer
PSY A670 Psychotherapy Internship 3-6

Research Track

Fall Conditional Entry
Prerequisite
Prerequisite
Prerequisite
PSY A623 Psychotherapy Skills 3
Spring
PSY A633 Psychological Assessment 3
PSY A654 Cultural Issues in Psychotherapy 3
PSY A639 Advanced Research Methods 3
Prerequisite
Fall
PSY A698 Individual Research 1-4
PSY A611 Ethics and Professional Practice 3
PSY A622 Psychopathology 3
PSY A685/685L Quantitative Methods in Psychology/Lab 4
Elective
Petition for Full Admission
Spring
PSY A645 Advanced Psychotherapy Skills 3
PSY A665A Psychotherapy Practicum: Psychological Assessment 1
PSY A665B Psychotherapy Practicum: Psychological Services Center 3
PSY A699A Thesis: Research 3
Advance to Candidacy
Summer
PSY A699A Thesis: Research 3
PSY A670 Psychotherapy Internship 3
Fall
PSY A626 Family Therapy 3
PSY A670 Psychotherapy Internship 3

FACULTY

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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.

FACULTY

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CREATIVE WRITING AND LITERARY ARTS

aycwla@uaa.alaska.edu
www.uaa.alaska.edu/cwla/
College of Arts and Sciences, 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 the beginning of this chapter for graduate admission requirements and deadlines.

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 March 1 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 master’s level graduation requirements 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.


5. Successful defense of the thesis.

6. A total of 45 credits is required for the degree.

FACULTY

Sherry Simpson, Chair/Professor, AFSS3@uaa.alaska.edu
Ronald Spatz, Professor, AFRMS1@uaa.alaska.edu
Linda McCarriston, Professor, AFLJM@uaa.alaska.edu

ENGLISH

www.engl.uaa.alaska.edu/english/
Classroom Building K (K), Room 212, (907) 786-4355

MASTER OF ARTS, ENGLISH

ADMISSION REQUIREMENTS

See the beginning of this chapter for graduate admission requirements and deadlines.

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 master’s level 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 two departmental requirements before advancing to candidacy:

1. Submit a satisfactory official score for the verbal section of the General GRE. MA students ordinarily have a score of 500 or better on the Verbal GRE. This is a general guideline, kept flexible to accommodate promising candidates whose total record indicates aptitude that may not be easily measured by a standardized test.

2. 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 the beginning of this chapter for master’s level graduation requirements.
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: 9
   - ENGL A607 Studies in American Literature (3)
   - ENGL A615 Studies in Medieval Literature (3)
   - ENGL A620 Studies in Renaissance Literature (3)
   - ENGL A625 Studies in Neoclassical Literature (3)
   - ENGL A630 Studies in the Literature of Romanticism (3)
   - ENGL A640 Studies in the Victorian Period (3)
   - ENGL A642 Studies in the Modernist Period (3)
   - ENGL A643 Studies in Contemporary Literature (3)
3. Complete 6 credits in genre studies from the following: 6
   - ENGL A636 Studies in Modern Criticism (3)
   - 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: 3
   - ENGL A604 Studies in Women’s Literature (3)
   - ENGL A606 Studies in the Development of the English Language (3)
   - ENGL A637 Studies in Modern Criticism (3)
   - ENGL A671 Studies in Nonfiction Prose (3)
   - ENGL A676 Studies in Texts and Cultures (3)
6. Complete one English elective at the graduate level (3)
7. A total of 36 credits is required for the degree.

RECOMMENDED COURSE SEQUENCE
MA in English (Literature Emphasis)

First Year
- Fall Semester
  - ENGL A601 Introduction to Graduate Studies in English 3
  - ENGL or ENGL A687 (required for Teaching Assistants) 3
  - ENGL Genre Course 3
- Spring Semester
  - ENGL A602 Contemporary Critical Theory 3
  - ENGL Period Course or ENGL Specialized Studies Course 3
  - ENGL Genre Course 3
  - The student should take the Graduate Qualifying Exam this semester.

Second Year
- Fall Semester
  - ENGL Period Course 3
  - ENGL Specialized Studies Course or Period Course 3
  - ENGL A699 Thesis or ENGL Elective (often ENGL A698 Individual Research) 3
  - The student should complete the Admission to Candidacy form this semester.
- Spring Semester
  - ENGL Period Course or ENGL Elective 3
  - ENGL Elective (often ENGL A698 Individual Research) 3
  - ENGL A699 Thesis 3

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: 9
   - ENGL A604 Studies in Women’s Literature (3)
   - 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)
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.alaska.edu/DEGREES/ba.html
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 International Association for Management Education (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 graduate admission requirements and deadlines 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 ≥ 1100
2. Upper-division GPA x 200 + GMAT ≥ 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
- CIOS 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.

MASTER OF SCIENCE, GLOBAL SUPPLY CHAIN MANAGEMENT

The MS-GSCM is designed to provide advanced studies leading to the efficient integration of manufacturing operations, purchasing, transportation, materials handling and storage, physical distribution, part and service support, and distribution communication to provide a high level of customer service and competitiveness. The main focus is on the management of global supply chain systems with an emphasis on information technology and global supply chain leadership. Graduates are grounded in management theory, logistics integration, 21st century information systems, knowledge management, and ethical standards affecting the efficient design and implementation of global supply chain systems.

1. Complete the following requirements (30 credits):

- LOG A661 Supply Chain Strategic Planning 6
- LOG A662 Supply Chain Knowledge Management 6
- LOG A663 Supply Chain Marketing Strategies 6
- LOG A664 Supply Chain Management Leadership 6
- LOG A665 Supply Chain Measurement* 6

Students must participate as part of a cohort group, and are expected to take the classes in the order offered above unless special permission is granted to change to a different cohort group.

The program serves part-time students. Each student takes one six-credit course per semester. Classes are to be held three to four weekends per semester. On the first meeting of the cohort group, participants receive an introduction to the program, materials and project assignments. All assigned projects are applied projects associated with a host organization work.

This degree is a stand-alone program that is not subsidized by the State, and therefore normal tuition fees do not apply. The all-inclusive consolidated tuition includes instructional costs, books, materials, meals, and all standard university fees. Contact the College of Business and Public Policy for total program costs and preapplication information.

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www.uaa.alaska.edu
MASTER OF PUBLIC ADMINISTRATION

ADMISSION REQUIREMENTS

See the beginning of this chapter for graduate admission requirements and deadlines. 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.

Students entering the MPA program are expected to have introductory-level knowledge of American government, statistics, and micro and macroeconomics. Students deficient in any of these subjects must make up these deficiencies by completing equivalent undergraduate courses.

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 the beginning of this chapter for master’s level graduation requirements.

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:

   A. 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

   B. Policy Analysis Emphasis (15 credits):
      - ECON A628 Applied Economics 3
      - PADM A632 Policy Analysis 3
      - PADM A635 Program Evaluation 3
      - Plus two 600-level electives 6

   C. Health Administration Emphasis (15 credits):
      - PADM A624 Human Resources Administration 3
      - Plus one 600-level elective 3
      - Choose 3 courses from the following:
        - NS A626 Principles of Epidemiology (3)
        - NS A658 Public Health Policy (3)
        - NS A681 Analysis of Health Services (3)
        - NS A682 Administrative Services (3)

   Plus two 600-level electives 6

   PLUS:
   - Choose two courses from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   OR:
   - Choose one course from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   PLUS:
   - Choose two courses from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   OR:
   - Choose one course from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   PLUS:
   - Choose two courses from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   OR:
   - Choose one course from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   PLUS:
   - Choose two courses from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   OR:
   - Choose one course from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   PLUS:
   - Choose two courses from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   OR:
   - Choose one course from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   PLUS:
   - Choose two courses from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   OR:
   - Choose one course from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   PLUS:
   - Choose two courses from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   OR:
   - Choose one course from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   PLUS:
   - Choose two courses from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)

   OR:
   - Choose one course from the following:
     - NS A626 Principles of Epidemiology (3)
     - NS A658 Public Health Policy (3)
     - NS A681 Analysis of Health Services (3)
     - NS A682 Administrative Services (3)
D. 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

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

6. A total of 36-39 credits is required for the degree.

FACULTY

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The University of Alaska Anchorage has developed a new graduate program in Secondary Education.

**Master of Arts in Teaching (M.A.T.) Admission**

- **Counseling (K-8)**
- **Counseling (K-8 & 7-12)**
- **Counseling and Guidance Special Services**
- **General Counseling**
- **Adult Counseling**
- **Vocational Education Counseling**

**C. Educational Leadership**

- **Principal (K-8)**
- **Principal (7-12)**
- **Principal (K-8 & 7-12)**

**D. Special Education**

- **General Special Education**
- **Early Childhood Special Education**

**E. Adult Education**

- **Counseling and Guidance**
- **Distance Learning and Technology**
- **Human Resource Development and Leadership**
- **Curriculum and Instruction**

**Master of Arts in Teaching**

- **Master of Arts in Teaching** - Admission to the M.A.T. has been suspended. Students who are already admitted to the degree program may finish their requirements as listed in the catalog under which they were admitted or as published in the 2000-2001 catalog. All requirements, including any that are initiated by the Alaska Department of Education and Early Development must be completed in order to receive an Institutional Recommendation for Secondary Teacher Certification.

**Secondary Teacher Certification.**

- **Secondary Education** - a new graduate program in Secondary education has been developed. Contact the School of Education for more information.

**Graduate Certification and Endorsement Programs**

- **Graduate Certification and Endorsement Programs**

  - **Curriculum and Instruction**
  - **Human Resource Development and Leadership**
  - **Distance Learning and Technology**
  - **Counseling and Guidance**
  - **Early Childhood Special Education**
  - **General Special Education**
  - **Principal (K-8)**
  - **Principal (7-12)**
  - **Principal (K-8 & 7-12)**
  - **Counseling and Guidance Special Services**
  - **Educational Leadership (Principal [K-8], Principal [7-12], Principal [K-8 & 7-12])**
  - **Vocational Education Counseling**
  - **General Counseling**
  - **Counseling (K-8)**
  - **Counseling (K-8 & 7-12)**
  - **Counseling and Guidance Special Services**
  - **Educational Leadership (Principal [K-8], Principal [7-12], Principal [K-8 & 7-12])**
  - **Special Education (General Special Education [admission suspended])**

**student admission and requirements as approved by the State of Alaska Department of Education and Early Development.**

**NEW MAJOR PROGRAM**

- **Secondary Teacher Certification.**

  - **Secondary Education** - a new graduate program in Secondary education has been developed. Contact the School of Education for more information.
PROFESSIONAL FIELD PRACTICE

Prior to permitting the student to enter the final stage of preparation, which is characterized by participation in a practicum or internship, a faculty committee will evaluate the student’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 minimal academic performance, unprofessional behavior, minimal 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 students will demonstrate maturity in professional actions, attitude, and performance. The Alaska Department of Education and Early Development issues certificates/endorsements as a result of successful program completion as attested by the department program chair and the dean.

MASTER OF EDUCATION

ADMISSION REQUIREMENTS

See the beginning of this chapter for admission to graduate programs. Students 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’s Analogy Test (MAT), as required. Contact each academic department for specific tests.

2. Prepare materials for a file in the School of Education by completing an application form and submitting other required materials. Information about specific programs is available in the School of Education. Students without appropriate and recent experience in the field may be required to sign up for a supervised practicum prior to admission.

3. Student files are reviewed twice each year, October 15 and March 15. It is the student’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 student’s file is forwarded to the School of Education and combined with the School of Education admission materials for consideration by a Graduate Committee (see admission requirements above). Students 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 student. One of the following actions can be expected from the Graduate Committee:

1. Unconditional admission.
2. Conditional admission with specified conditions.
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 point scale) in the last 30 credits.
3. Graduate Record Examination with a combined verbal and quantitative score of 800 or the Miller’s Analogy Test with scores at or above the 40th percentile.* Contact Department.

*The endorsement program 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. Students 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 student’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.

Students completing the Master of Education degree must also complete the following requirements:

1. All programs, with the exception of Adult Education and Counseling and Guidance, require at least one year successful contract teaching. 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 official program must be approved before completion of 9 credits of course work.

3. Completion of a minimum of 21 credits in a program at the graduate (600) level.

4. Completion of 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 be also 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
For those programs leading to recommendation for certificates or endorsements, in order to obtain an institutional recommendation,
a. All program courses must be completed with a grade of “C” or higher. Special Education requires a grade of “B” or higher.
b. Must have a cumulative GPA of 3.0 in the program coursework.
c. For endorsements, all requirements for a current Type A certificate must be successfully met.
d. All programs, with the exception of Counseling and Guidance, 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.
e. For Counseling and Guidance Special Services Type C Certificate and Principal Type B Certificate, the M.Ed. must be conferred.
f. 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 SPECIALTY 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
   Students selecting the Middle School Education (admission suspended) or 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. Students may concentrate their studies in such areas as elementary, secondary, reading, etc. See an academic 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
      Choose one of the following endorsement tracks (9 credits):
      a. Pre-K-Primary Endorsement:
         Only the University of Alaska Southeast (UAS) is authorized to recommend students for the Pre-K-Primary Endorsement. Students 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
      b. Early Intervention Credential/Early Childhood Special Education Endorsement:
         Note: Admission to this track is suspended.
         EDSE A630Y Assessment: Early Childhood Special Education 3
         EDSE A620Y Advanced Internship: Early Childhood Special Education 3
         EDSE A681 Issues in Early Childhood Special Education 3
   c. 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. COUNSELING AND GUIDANCE

The M.Ed. in Counseling and Guidance 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. Counseling and Guidance Core (18-21 credits)
   - COUN A610 Foundations in Counseling 3
   - COUN A614 Counseling Diverse Populations 3
   - COUN A623 Counseling Skills 3
   - COUN A632 Career Counseling 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. A total of 42-45 credits is required for the degree.

Endorsement/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 or Agency) 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
d. Counseling and Guidance Special Services (18 credits)
   - Minimum credits by special advisement 18

Non-Certificated Options

The following options do not lead to a certificate or endorsement.
e. General Counseling (12 credits):
   - COUN A634 Counseling Practicum I (Agency) 3
   - COUN A636 Counseling Practicum II (Agency) 3
   - Electives by advisement 6
f. 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
g. 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

3. A total of 42-45 credits, is required for the degree.
C. EDUCATIONAL LEADERSHIP

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:
1. At least one year of experience as certificated elementary or secondary teacher.
2. Eligible for Alaska Teaching Certificate.
3. GRE/MAT for Masters of Education program only.

Principal Type B Certificate Program Requirements (K-8, 7-12, K-8 & 7-12)
1. Foundation Core (12 credits):
   - ED A627 Education Research 3
   - ED A636 Innovations in Teaching and Learning 3
   - 600-level electives by Advisement 6
2. 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
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

The UAA Special Education program has a statewide mission.

a. General Special Education*

The M.Ed. in Special Education program 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.

PROGRAM REQUIREMENTS
1. At least two years of appropriate professional experience
2. 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
   - EDSE A699 Thesis (1-6) 3
   - Electives by advisement 18
3. Documentation of computer technology skills or completion of ED A302 or ED A626 or computer technology course.
4. A total of 36 credits is required for the degree.

b. Special Education Endorsement

Admission to the graduate level Special Education Endorsement has been suspended. A new undergraduate Special Education Endorsement program has been developed. Refer to undergraduate section of the catalog (Chapter 9). The special education endorsement program is designed for individuals who desire initial professional preparation in special education. Successful completion of the program, which includes the development of a professional portfolio, leads to an endorsement on the Type A teaching credential in Alaska.

PROGRAM REQUIREMENTS
1. Type A teaching credential in Alaska
2. Prerequisite courses must be completed prior to enrolling in required program courses. Contact School of Education for additional information.
3. Required courses: (24 credits)
   - EDSE A460 Exceptional Learner 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
4. Documentation of computer technology skills or completion of ED A320 or ED A626 or computer technology course.
5. A total of 24 credits is required for the endorsement.

c. Early Childhood Special Education with Endorsement*

1. Required Courses:
   - EDSE A474 Special Children from Birth through Five 3
   - EDSE A610Y Assessment: Early Childhood Special Education
   - EDSE A620Y Advanced Internship: Early Childhood Special Education 6
   - EDSE A622Y Strategies: Early Childhood Special Education 3
   - EDSE A627 Education Research 3
   - EDSE A674 Families: Developing Parent Professional Partnerships
   - 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 Degree in Special Education with an emphasis in Early Childhood Special Education. Students who do not possess a Type “A” Certificate will exit with a Master of Education in Special Education with an emphasis in Early Childhood Special Education without endorsement.

*This program does not lead to an endorsement on the Type A teaching credential in Alaska; however, this program may be pursued simultaneously with the undergraduate Special Education endorsement program.
E. ADULT EDUCATION**

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. Contact School of Education 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. Counseling and Guidance**
     - 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) 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 School of Education recommends students for certification or endorsement to the Alaska Department of Education and Early Development upon successful completion of graduate programs in Counseling and Guidance (Counseling [K-8], Counseling [7-12], Counseling [K-8 & 7-12], and Counseling and Guidance Special Services), Educational Leadership (Principal [K-8], Principal [7-12], Principal [K-8 & 7-12], and Superintendent), Elementary Education, Secondary Education, and Educational Technology. Students admitted to a graduate certification/endorsement only program are assigned to a faculty member who serves as an academic advisor. Contact the School 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. Students must meet all the course requirements as approved by the Alaska Department of Education and Early Development.

An undergraduate special education endorsement program and an undergraduate elementary education certification program are also available. See the undergraduate section of the catalog for more information.

Graduate certification and endorsement options are:

- **A. Counseling and Guidance**
  - Counseling (K-8)
  - Counseling (7-12)
  - Counseling (K-8 & 7-12)
  - Counseling and Guidance Special Services

- **B. Elementary Education**
- **C. Secondary Education**
- **D. Educational Leadership**
  - Principal (K-8)
  - Principal (7-12)
  - Principal (K-8 & 7-12)
  - Superintendent
- **E. Educational Technology**

PROFESSIONAL FIELD PRACTICE

Prior to permitting the student to enter the final stage of preparation, which is characterized by participation in a practicum or internship, a faculty committee will evaluate the student’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 minimal academic performance, unprofessional behavior, minimal 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 students will demonstrate maturity in professional actions, attitude and performance. The Alaska Department of Education and Early Development issues certificates/endorsements as a result of successful program completion as attested by the department program chair and the dean.

ADMISSION REQUIREMENTS

Contact the School of Education for admission requirements.

NOTE: Eligibility requirements for some financial aid opportunities include admission to a specific degree program.

- **A. Counseling and Guidance**
  - The certificate/endorsement in Counseling and Guidance is designed to serve college graduates who have selected careers as professional counselors.
1. Counseling and Guidance Core (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

2. Choose one of four options:

   Options a, b, and c may lead to an endorsement in Counseling and Guidance for an Alaska Type A certificate. Option d, an Alaska Type C Certificate-Counseling and Guidance Special Services, requires a master’s degree in Counseling and Guidance or related field and a minimum of 18 credits by special advisement. Students seeking a certificate will need appropriate courses in multicultural education/cross-cultural communication and Alaska studies.

   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

   d. Counseling and Guidance Special Services (18 credits):
      Minimum credits by special advisement 18

3. A total of 33-39 credits is required to apply for an institutional recommendation.

B. Elementary Education

   Individuals who already have a baccalaureate degree may obtain Elementary Teacher Certification by successfully completing option a or b.

   a. Complete the undergraduate certification program. Refer to the undergraduate section of the catalog in Chapter 9.
   b. Complete the post-baccalaureate elementary certification program. Contact the School of Education (907) 786-4401 for information about this program.

C. Secondary Education

   Individuals who already have baccalaureate degrees in specific areas may obtain Secondary Teacher Certification by completing the post-baccalaureate secondary certification program. Contact the School of Education (907) 786-4401 for information about this program.

D. Educational Leadership

   The Principal Type B Certificate and the Superintendent’s Endorsement are designed for individuals seeking advanced professional preparation to become principals or superintendents.
CERTIFICATION ONLY - GRADES 7-12

Admission to the Certification Only – Grades 7-12 program has been suspended. A new post-baccalaureate secondary certification program has been developed. Contact the School of Education for information about this program. Certification only - Grades 7-12 is available for students who need a more flexible option for their secondary level teacher education program, or who prefer to get their Master’s degree in their discipline. Certification only - Grades 7-12 is an intense, integrated program of courses work and practica which prepares teachers to work with secondary students in a wide variety of education settings. This program assists students in their development as professional educators who are committed to a life of reflective proactive; to roles as models of moral, ethical and caring citizenship; and to positions as leaders in their communities.

Certification is awarded by the Alaska Department of Education in Juneau. Therefore, students must meet all requirements specified by AK-DOE at the time of their application for the teaching certificate.

The Certification Only-Grades 7-12 program must be completed within four years of the date of admission to the program. The Secondary Education Field Experiences Coordinator will make reasonable efforts to place students in practica and student teaching. Placement is dependent upon availability of resources in the community and in the School of Education. Acceptance into the Certification Only - Grades 7-12 program does not guarantee acceptance by cooperating field experience settings.

ADMISSION REQUIREMENTS

Certification Only - Grades 7-12 (admission suspended) applicants who have met the following requirements will compete for spaces in the Secondary Education Program based on: 1. depth and breadth of content knowledge and experience; 2. experience with adolescents; 3. faculty recommendations; 4. baccalaureate degree; 5. 3.00 cumulative GPA; 6. Scores on the Praxis I test at or higher than the 75th Percentile. (In the event that the minimum passing score established by the State of Alaska exceeds the 75th percentile, the students are required to meet the higher score); 7. A completed approved teaching major with passing scores on the appropriate NTE/Praxis II test, or a score at or above the 80th percentile on the appropriate NTE/Praxis II test; 8. three letters of recommendation addressing academic ability and experience with children and adolescents; 9. documented experience with adolescents preferred; 10. interview with Secondary Education faculty which includes an on-site writing sample.

PROGRAM REQUIREMENTS

1. Required Courses (36-37 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED A622</td>
<td>Philosophy of Education</td>
<td>3</td>
</tr>
<tr>
<td>ED A626</td>
<td>Technology in Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>ED A681*</td>
<td>Neurological Foundations: Development and Learning</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED A654</td>
<td>Brain Theories: Development and Learning</td>
<td>3</td>
</tr>
<tr>
<td>ED A682*</td>
<td>Curriculum Development Processes (3)</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED A651</td>
<td>Curriculum Theory and Development (3)</td>
<td></td>
</tr>
<tr>
<td>EDSE A671*</td>
<td>The Impact of Social Issues on Education (3)</td>
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<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDSE A419</td>
<td>Diversity in the Classroom (3)</td>
<td></td>
</tr>
</tbody>
</table>

The course work listed above must be completed before the student can be admitted to the methods sequence.

ED A683*       Methods for Secondary Education (3)  3-4

Methods courses specific to the content area
(i.e., ENGL A476, MUS A471/A472, ART/ED A442/418, JPC A601)

ED A687       Advanced Practicum: Education   3

Note: All of the program requirements must be met before the student will be admitted to student teaching.

ED A688       Student Teaching in Secondary Education  12
Alaska Studies Course     3

(still be from a list of courses approved annually by the Alaska Department of Education).

A total of 36-37 credits is required for the certificate.

*Note: Courses only taught Fall Semester.

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MASTER OF SCIENCE, NURSING SCIENCE

ADMISSION REQUIREMENTS

See the beginning of this chapter for graduate admission requirements and deadlines. 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 master’s level graduation requirements.

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
   - NS/N 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):
   A. Family Nurse Practitioner Option (32 credits):
      - NS A601 Advanced Pathophysiology 3
      - NS A602 Advanced Health Assessment in Primary Care 3
      - NS A605 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, Clinical Concentration 5
      - Elective 3
   B. Psychiatric-Mental Health Nursing Option (32 credits):
      - NS A601 Advanced Pathophysiology 3
      - NS A602 Advanced Health Assessment in...
SHEDULING 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.

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.

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 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.

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SOCIAL WORK
www.uaa.alaska.edu/socwork/
Gordon Hartlieb Building (GHB), Room 106, (907) 786-6900

The Master of Social Work Degree at the University of Alaska Anchorage has as its purpose preparation of professionally trained advanced generalist social work practitioners. The advanced generalist, prepared for direct practice, administration, program and policy development and evaluation, and case management, can respond to a wide range of client and agency needs in the public and non-profit sector in Alaska as well as other geographical areas.

In June, 1999, the Council on Social Work Education granted initial accreditation to the UAA MSW program. MSW program admission and curriculum requirements are consistent with MSW licensing requirements for the State of Alaska.

The MSW degree is structured to allow students to participate in full-time or part-time 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 and course material fees, and student activity fees. The Professional Program Fee is a sum equal to 50% of tuition, and is charged upon enrollment in MSW courses.

MASTER OF SOCIAL WORK

ADMISSION REQUIREMENTS
1. Deadline for application: January 15th. This is the only application date for the year.
2. Submit UAA graduate application for admission with fee and meet requirements found on the beginning of this chapter.
3. Submit complete undergraduate transcripts.
4. Submit the MSW Admissions Packet available through the School of Social Work, which will include three (3) letters of reference from employers, supervisors or academic faculty and a sample of academic or professional writing in addition to other materials.

The MSW program reserves the right to request additional materials 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.

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.

The MSW Field Education Coordinator will make reasonable efforts to place MSW students in field placement. Placement is dependent upon availability of resources in the community and in the department. Acceptance into the MSW program does not guarantee acceptance by cooperating practicum settings. Field placements located outside the Anchorage/Matanuska-Susitna Valley area carry additional fees in order to help support field coordination 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 during spring semester of the concentration year of the program.

**GRADUATION REQUIREMENTS**

1. See the beginning of this chapter for Master's level degree requirements.
2. Successful completion of individual research project.
3. Successful completion of all required academic course work specified on the Official Graduate Studies Plan, with a GPA of "3.00" or better and no course grade of lower than a "C," and no practicum course grade lower than a "B."

**PROGRAM REQUIREMENTS**

The following outlines course requirements for the full-time program plan. Students admitted to the program on a part-time basis 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/HSS A628 Program Evaluation 3
   - SWK A633A Social Work Practice III: Direct Practice 3
   - SWK A634A Social Work Practice IV: Indirect Practice 3
   - Graduate-level Social Work elective.** 3

   **Spring - Year Two**
   - SWK A633B Advanced Generalist Practicum III* (may be taken in the fall semester) 3
   - 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 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. 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 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 appropriate practice community. Students are expected to comply with UAA policies and procedures for the protection of human subjects.

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The Career and Technical 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.

**MASTER OF SCIENCE, VOCATIONAL EDUCATION**

**ADMISSION REQUIREMENTS**
See the beginning of this chapter for graduate admission requirements and deadlines.

**GRADUATION REQUIREMENTS**
1. See the beginning of this chapter for general university requirements for graduate degrees and master’s level graduation requirements.
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**

A. **Technical Competency**
Students must demonstrate technical competency appropriate to vocational education using one of the following methods:
1. 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.
2. 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.
3. An associate degree in a vocational area.
4. 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.
5. A combination of academic and employment experience with a minimum of 30 credits in a vocational area and two years of successful work experience.

B. **Computer Competency**
Students must demonstrate computer competency appropriate to vocational education using one of the following methods:
1. 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.
2. Work-related experience in computer competency as approved by the student’s graduate advisor.
3. Self-initiated computer competency as approved by the student’s graduate advisor.

**PROGRAM REQUIREMENTS**

Note: The Vocational Education Program is undergoing curriculum changes. Contact department.

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**
   - 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 credit of VE A690 may be used in partial fulfillment of this requirement.

4. A total of 36 credits is required for the degree.

**FACULTY**

Jean Marcey, Assistant Professor, AFJLM@uaa.alaska.edu
Brian Walsh, Assistant Professor, AFBEW@uaa.alaska.edu
COURSE 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
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 climatic, 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

ADMISSION REQUIREMENTS
See the beginning of this chapter for admission to graduate programs. All students must hold a baccalaureate degree in an engineering discipline.

GRADUATION REQUIREMENTS
See the beginning of this chapter for general university requirements for graduate degrees.

PROGRAM REQUIREMENTS

1. Complete 15 credits of core courses from the following:  15
   - CE A603 Arctic Engineering (3)
   - CE A681 Frozen Ground Engineering (3)
   - CE A682 Ice Engineering (3)
   - CE A683 Arctic Hydrology and Hydraulic Engineering (3)
   - CE A684 Arctic Utility Distribution (3)
   - CE A686 Civil Engineering Project (1-6)
   - ME A685 Arctic Heat and Mass Transfer (3)
   - ME A687 Arctic Materials Engineering (3)

2. Complete 15 credits of electives in areas related to or supportive of the student’s degree program and approved by the student’s graduate committee.  15

3. A total of 30 credits is required for the degree.

FACULTY

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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 to graduate programs. All students must hold a baccalaureate degree in an engineering discipline.

**GRADUATION REQUIREMENTS**

See the beginning of this chapter for General University Requirements for graduate 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.

**FACULTY**

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Craig Woolard, Associate Professor, AFCRW@uaa.alaska.edu
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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 students 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 then 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):
   A. **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)
   B. **Fiscal Area (6 credits minimum):**
      - Complete two of the following courses: 6
        - ESM A605 Engineering Economy (3)
        - ESM A606 Advanced Engineering Economy (3)
        - ESM A610 Cost Estimating (3)
   C. **Quantitative Area (6 credits minimum):**
      - Choose one course from the following: 3
        - ESM A620 Statistics for ESM (3)
        - ESM A621 Operations Research (3)
      - Choose one course from the following: 3
        - 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)

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:
   A. **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.
   B. **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  
University of Alaska Anchorage  
3211 Providence Drive  
Anchorage, AK 99508  
(907) 786-1900

FACULTY

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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 to graduate programs. 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 general university requirements for graduate degrees.

PROGRAM REQUIREMENTS
1. 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 Treatment Processes 3
   - EQE A606 Biological Treatment Processes 3

2. 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.
   A. Thesis Option:
      - Thesis (6)
      - Electives (6)
   B. Non-Thesis Option:
      - Special Project (3)
      - Electives (9)

3. A total of 30 credits is required for the degree.

FACULTY
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Craig Woolard, Associate Professor, AFCRW@uaa.alaska.edu
CHAPTER 11

COURSE DESCRIPTIONS

Alternative Learning Options
Contact Hours
Course Level Expectations
Course Numbering System
General Education Requirements
Prerequisites
Semesters Offered
Course Descriptions
ALTERNATIVE LEARNING OPTIONS

FLEXIBLE TIME COURSES
Certain courses are offered in flexible formats. They include:
1. Self-Paced: These courses offer an alternative to the traditional lecture class and are especially suited to motivated, self-directed learners. Self-paced courses allow students to work in a low-anxiety, supportive environment. They include some or all of the following:
   a. group study
   b. tutorial study
   c. scheduled lectures
   d. diverse learning aids such as video, audio, computer, and library resources.
2. Open Entry/Open Exit: These courses permit students to enter and exit anytime during the semester. Students generally work at their own pace to complete the required course content.
3. 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.
4. Short: Short courses offer the content of a full semester course in a shorter timeframe.
5. Mini: Mini-courses are offered for fewer than 3 credits and usually in a shorter time period than a full semester.

DIRECTED STUDY
A Directed Study course is a permanent catalog course delivered on an individual basis when the course is not offered that semester. It provides the opportunity for the student to take a permanent course on an individual basis when the course is not being offered that semester. For additional information, refer to the Directed Study policy located in chapter 8.

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. These courses are not duplications of and must differ significantly from the catalog course. It provides the opportunity for the student who has completed most of the required courses in their program to study topics which are not offered. For additional information, refer to the Independent Study policy located in Chapter 8.

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.

STACKED COURSES
Occasionally two or more courses are scheduled in the same classroom at the same time. These are referred to as “stacked courses.” Catalog descriptions of these courses include the statement “Stacked with.” The semester class schedule will indicate if a class is being offered in stacked format and which course(s) are being stacked.

TELECOURSES
UAA telecourses are college-level credit courses offered in televised format. Courses can be viewed on Channel 7/KAKM (Anchorage PBS), on Channel 42/Anchorage TeleCampus (Prime Cable of Alaska), or by videotape on campus.

Telecourses are organized learning systems which include video lessons, a textbook, a study-guide, learning exercises, and organized exams. Most course work can be completed in the convenience of a student’s home. Students come to campus only for orientation, discussion/lab sessions, and examinations. Students can communicate with telecourse faculty and other class members via telephone, office appointments, computer, or mail.

Telecourses are listed in each semester Class Schedule. Tuition is charged at the current UAA per-credit rate. There is a Distance Fee for each telecourse. Students follow regular UAA registration procedures for telecourses.

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 1500 minutes completed outside the classroom to award 1 credit. Some courses require more than 750 minutes of contact time and more than 1500 minutes completed outside the classroom.

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

Courses scheduled for less than a full semester may not be offered for more than 1 credit each week.

One Continuing Education Unit (CEU) may be granted for satisfactory completion of 10 contact hours of classroom instruction or for 20 contact hours of laboratory or clinical instruction.

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

Contact hours are expressed in the course descriptions of individual courses by the expression “x + y” where x equals the course’s lecture contact hours per week and 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 regardless of the amount of weeks in which the course is offered.

COURSE LEVEL EXPECTATIONS
Students are expected to demonstrate learning skills commensurate with the appropriate course level.

Students are expected to meet prerequisites for all courses prior to registering. Prerequisites are listed with course descriptions. Prerequisites indicate the preparation and/or background necessary to undertake academic study. If a student has not taken and passed the necessary prerequisites, but feels confident of performing the course work, the student may request permission from the instructor of the course to enroll in the class. An instructor withdrawal may be initiated for those students who enroll without either prerequisites or instructor permission.

EXPECTATIONS FOR ACADEMIC UNDERGRADUATE COURSE LEVELS
Because of the differences in organization and content of the various disciplines and professions, there is no uniform, reasonable way of numbering courses that would be equally useful in all fields of knowledge.

In general, advances in course level (lower, upper, graduate) correlate with sophistication of academic work. It should be noted, 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 level definitions list the types of courses that can be expected at a given level and give an idea of the academic expectations of those courses:

PREPARATORY COURSES

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

http://www.uaa.alaska.edu
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 material to solving complex problems. These courses are generally supported by a substantial body of lower level courses.

COURSE NUMBERING SYSTEM

Each course offered by the University is identified by the department designator and a three-digit course number. The designator commonly abbreviates the name of a 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 meanings:

A001-A049: Continuing Education Units (CEU). (Career development courses.) One CEU is granted for satisfactory completion of 10 contact hours of classroom instruction or for 20 contact hours of laboratory or clinical instruction. Also indicates community interest courses not offered for credit. Not applicable to any degree requirements (even by petition) and not designed as preparation for 100-level college work.

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.


A300-A399: Junior-level, upper-division courses. Applicable to 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. May not be applied to both a baccalaureate and a master’s degree.

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 050-499 or 600-699.

A600-A699: Graduate-level. Applicable to master’s degrees 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. May not be applied to both a baccalaureate and a master’s degree. 600-level courses demand rigorous analysis, synthesis, and research skills.

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

- 90 selected topics—umbrella courses
- 92 seminars and workshops
- 93 special topics courses, to be offered only once*
- 94 trial (experimental) courses intended to become permanent*
  (A course may only be offered a maximum of three times as a trial course. Before the trial course may be offered a third time, the course must be approved by the appropriate faculty committee for a permanent course number.)
- 95 practicums and internships
- 97 independent study
- 98 individual research
- 99 thesis

*Courses ending with -93 or -94 will not satisfy General Education Requirements.

GENERAL EDUCATION REQUIREMENTS

Courses fulfilling General Education Requirements (GER) are identified on the course attributes line in the course descriptions. They are designated by the acronym “GER” followed by which classification of GER the course satisfies. The GER classifications are:

- Oral Communication Skills
- Written Communication Skills
- Quantitative Skills
- Humanities
- Fine Arts
- Social Sciences
- Natural Sciences

PREREQUISITES

Prerequisites, as they are listed in the course description area may be a) courses, b) registration restrictions, c) class standing restrictions, or d) level restrictions. Any prerequisite can be waived with faculty permission. A signature must be obtained on the proper registration form prior to registration.

SEMESTERS OFFERED

Descriptions for most GER courses and some courses required by degree programs include which semester(s) they are offered. The designated semester(s) in which courses are offered applies only to the Anchorage campus. Contact the offering department(s) for more information.
ACCOUNTING - ACCT

http://www.cbpp.alaska.edu

Offered through the College of Business & Public Policy
Business Education Building (BEB), Room 309, 786-4100

Each student taking any ACCT, BA, CIOS, ECON, or PADM course will be charged a single lab fee of $25 for the semester. Applies to Elmdorf AFB or Fort Richardson classes only when specifically annotated. Does not apply to extended sites.

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.

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.


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 CIOS A110. 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. 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 CIOS A110. Special Fees. 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 CIOS A110. Special Fees. 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. 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. 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. 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. 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. 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.
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.
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.
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.
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.
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.
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.
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.
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.
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
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

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 A111 Power Trains I 3 CR
Contact Hours: 2 + 2
Prerequisites: (ADT A102 or concurrent enrollment).
Special Fees.
Teaches theory, diagnosis and repair of automotive power train systems to include clutches, drive lines and all wheel drive systems.

ADT A114 Power Trains II 3 CR
Contact Hours: 2 + 2
Prerequisites: ADT A111.
Special Fees.
Theory, diagnosis, and repair of automotive power train systems to include manual transmissions, transaxles, drive axles, and differentials.

ADT A115 Automotive Technology—Asset I 13 CR
Contact Hours: 8 + 12
Registration Restrictions: Formal acceptance into the UAA/Ford ASSET program.
Special Fees.
Special Note: Includes 280 hours of on-the-job training.
Provides the asset student with the prerequisite knowledge necessary to function effectively in the dealership environment and perform service related to predelivery, minor “Quick service” maintenance, and electrical charging 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 A130 Basic Auto Engines 3 CR
Contact Hours: 2 + 2
Prerequisites: ADT A102.
Special Fees.
Theory of operation of major systems, partial disassembly and reassembly of a wide variety of modern automotive engine types. Focuses on engine system relationship and valve service. Not an engine overhaul course.

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.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
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</thead>
<tbody>
<tr>
<td>ADT A135</td>
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<tr>
<td>Contact Hours:</td>
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<td>Registration Restrictions:</td>
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<tr>
<td>Special Note:</td>
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<tr>
<td>Present the fundamentals of Ford brake, suspension and steering systems operation and repair. Includes electronically controlled ABS (anti-lock brake systems), EVO (electronic variable orifice) steering systems, and electronically controlled suspension systems. Covers brake system overhaul and machining operations, wheel alignment service and tire balancing. Emphasizes safety in the diagnosis and repair of brake, suspension and steering systems using Ford approved methods and equipment.</td>
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<tr>
<td>ADT A150</td>
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<tr>
<td>Contact Hours:</td>
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<td>Prerequisites:</td>
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<td>Special Fees.</td>
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<tr>
<td>ADT A151</td>
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<tr>
<td>Contact Hours:</td>
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<tr>
<td>Corequisite:</td>
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<tr>
<td>Introduces theory of design, operation, diagnosis, disassembly, repair, and service procedures of engines used on medium and heavy equipment.</td>
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<tr>
<td>ADT A152</td>
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<tr>
<td>Contact Hours:</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Introduces the design, operation, diagnosis, disassembly, repair, and service procedures to the suspension and steering systems on medium and heavy duty equipment.</td>
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<tr>
<td>ADT A153</td>
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<tr>
<td>Contact Hours:</td>
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<tr>
<td>Corequisite:</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Applies principles of design, operation, diagnosis, disassembly, hands-on repair and service procedures on medium/heavy duty engines.</td>
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<tr>
<td>ADT A155</td>
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<tr>
<td>Contact Hours:</td>
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<td>Special Fees.</td>
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<tr>
<td>Introduces theory, operation, diagnosis, repair, and service procedure of brake systems on medium and heavy duty equipment.</td>
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<tr>
<td>ADT A156</td>
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<tr>
<td>Contact Hours:</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Introduces the regulations and maintenance procedures on medium and heavy duty equipment. Includes applications of scheduling, safety procedures, Department compliance, verification, and documentation.</td>
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<td>ADT A162</td>
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<td>Contact Hours:</td>
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<td>Prerequisites:</td>
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<td>Special Fees.</td>
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<tr>
<td>ADT A170</td>
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<td>Contact Hours:</td>
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<tr>
<td>Prerequisites:</td>
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<tr>
<td>ADT A171</td>
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<td>Contact Hours:</td>
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<td>Prerequisites:</td>
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<td>Registration Restrictions:</td>
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<tr>
<td>ADT A195</td>
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<td>Contact Hours:</td>
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<td>Registration Restrictions:</td>
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<td>Special Note:</td>
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<td>Provides supervised workplace experience in selected industry settings. Integrates knowledge and practice to achieve basic-level skill competencies.</td>
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<td>ADT A211</td>
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<td>Contact Hours:</td>
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<td>Prerequisites:</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Current fuel system theory and practice on modern vehicles. Includes fuels, fuel tanks and lines, pumps, fuel control devices, including carburetion, feedback carburetion, fuel injection, and supercharging.</td>
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<td>ADT A212</td>
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<td>Contact Hours:</td>
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<td>Prerequisites:</td>
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<td>Special Fees.</td>
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<tr>
<td>Current methods of engine performance testing, diagnosis, and adjustment. Includes basic engine diagnosis, use of diagnostic scopes, scanners, and electronic engine controls.</td>
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<tr>
<td>ADT A215</td>
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<tr>
<td>Contact Hours:</td>
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<td>Registration Restrictions:</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Covers the theory, diagnosis, service and repair of automotive engines and Ford climate control systems. Provides the asset student with the prerequisite knowledge necessary to function effectively in the dealership environment and perform service related to engine diagnosis and repair, climate control system diagnosis and repair.</td>
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<tr>
<td>ADT A225</td>
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<tr>
<td>Contact Hours:</td>
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<tr>
<td>Prerequisites:</td>
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<tr>
<td>Theory, diagnosis and repair of automotive heating and air conditioning systems.</td>
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<tr>
<td>ADT A227</td>
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<tr>
<td>Contact Hours:</td>
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<tr>
<td>Prerequisites:</td>
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<tr>
<td>Special Note:</td>
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<tr>
<td>Theory, diagnosis and repair of automotive electrical and electronic systems, to include accessories.</td>
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<tr>
<td>ADT A235</td>
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<tr>
<td>Contact Hours:</td>
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<tr>
<td>Registration Restrictions:</td>
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<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Covers the theory, diagnosis, service and repair of Ford electronic engine control systems, ignition, fuel and emission control systems. Provides the asset student with the prerequisite knowledge necessary to function effectively in the dealership environment and perform service related to electronic engine control systems and perform diagnosis of driveability concerns related to electronically controlled ignition, fuel and emission systems.</td>
</tr>
</tbody>
</table>
GM Automotive Service Education Programs.

Emphasizes GM training courses as required by the International Association of GM computer-based automotive information and specification retrieval systems.

fuels used in the modern internal combustion engine, use of vehicle scanners, and control systems used on late model GM vehicles. Introduces characteristics of fuels used in medium and heavy duty applications.

ADT A255 Automotive Technology— Asset V 13 CR
Contact Hours: 8 + 12
Registration Restrictions: Formal acceptance into the UAA/Ford ASSET program.
Special Fees.
Special Note: Includes 280 hours of on-the-job training.
Covers the theory, diagnosis, service and repair of Ford automatic and manual transmissions, transaxles, clutches, all wheel drive systems, drive lines and differentials. Provides the asset student with the prerequisite knowledge necessary to function effectively in the dealership environment and perform service related to automatic and manual transmissions, transaxles, clutches, all wheel drive systems, drive lines and differentials.

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 hydraulic, pneumatics, drive train, buckets, blades, undercarriages, and diesel engines used in medium and heavy duty applications.

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 medium and heavy duty industry.

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 hydraulic and pneumatic systems on medium to heavy duty equipment.

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 medium to heavy duty equipment.

ADT A269 Heavy Duty Drive Trains 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 transmissions and drive trains on medium and heavy duty equipment.

ADT A270 General Motors ASE P III 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 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.

ADT A271 General Motors ASE P IV 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 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.

ADT A272 General Motors ASE P V 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 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.

ADT A282 Power Trains III 3 CR
Contact Hours: 2 + 2
Prerequisites: ADT A114 and ADT A131.
Special Fees.
Special Note: Specialty tools required.

Theory, diagnosis and repair of automotive power train systems to include automatic transmissions and transaxles.

ADT A295 Automotive Practicum II 3 CR
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.

ARChITECTuRAL & ENGINEERING TECHNOLOGY - AET

Offered through the Community & Technical College
Beatrice McDonald Building (BMB), Room 212, 786-6423

AET A100 Fundamentals of Drafting 3 CR
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.

AET A101 Fundamentals of CADD for Building Construction 4 CR
Contact Hours: 2 + 4

AET A102 Methods of Building Construction 3 CR
Contact Hours: 3 + 0

AET A103 Methods of Building Construction 3 CR
Contact Hours: 3 + 0

AET A104 Methods of Building Construction 3 CR
Contact Hours: 3 + 0

AET A105 Methods of Building Construction 3 CR
Contact Hours: 3 + 0

AET A106 Methods of Building Construction 3 CR
Contact Hours: 3 + 0

AET A107 Methods of Building Construction 3 CR
Contact Hours: 3 + 0

AET A108 Methods of Building Construction 3 CR
Contact Hours: 3 + 0

AET A109 Methods of Building Construction 3 CR
Contact Hours: 3 + 0

AET A110 Fundamentals of CADD for Building Construction 4 CR
Contact Hours: 2 + 4

AET A111 Civil Drafting 3 CR
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 drafting production. Develops computer-aided drafting skills for mapping used in site development.

AET A121 Architectural Drafting 3 CR
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 drafting production. Develops computer-aided drafting skills in architectural drafting symbols, conventions, dimensioning systems, reference systems, sheet organization, code requirements, and research methods for detailing light commercial buildings.
COURSE DESCRIPTIONS

AET A123 Codes and Standards 3 CR
Contact Hours: 3 + 0
Prerequisites: AET A101 and AET A102.
Provides an introduction and overview of the fundamental provisions of the building codes used for plan review, life-safety evaluation of the buildings, and community development.

AET A131 Structural Drafting 3 CR
Contact Hours: 2 + 3
Prerequisites: AET A181.
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.

AET A142 Mechanical and Electrical Technology 4 CR
Contact Hours: 3 + 2
Special Fees.
Introduces the basic mechanical and electrical systems required in all buildings for the safety, health, comfort, and convenience of occupants. Emphasizes code interpreting and interpretation construction documents.

AET A143 Mechanical and Electrical Drafting 3 CR
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.

AET A161 Blueprint Reading for the Construction Industry 1 CR
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.

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.

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 A111 and AET A181.
Outlines elements of civil design, including subdivisions, roads, and utilities using local, state, and federal regulations. Covers CADD (computer-aided design and drafting), geographic information systems, and use of programmable calculators.

AET A231 Structural Technology 4 CR
Contact Hours: 2 + 4
Prerequisites: AET A131 and AET A181.
Special Fees.
Examines structural theory and the physical principles that underlie structural behavior. Includes the use of materials in a manner to maintain structural stability against the natural forces of gravity, wind, snow, and earthquakes. Covers connection detailing and code requirements for wood, steel, and reinforced concrete.

AET 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, surface modeling, solid modeling, shading, rendering, and animation techniques.

AET A290 Architectural and Engineering Technology 1-6 CR
Selected Topics (Topic)
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

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.

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www.uaa.alaska.edu
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 A133  Motors and Controls  3 CR
Contact Hours:  3 + 0
Crosslisted with: ET A120 and RH A120.
Offered only at Matanuska-Susitna College.
Provides understanding of principles of operation of motors, generators,
transformers and motor control apparatus. Study of definitions, symbols,
diagrams and illustrations gives a sound background in the language and basic
principles associated with electricity, electrical equipment, electrical apparatus
and electrical code principles.

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.
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 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 Technology
Center, 2811 Merrill Field Dr., room 116 264-7466

AIRS A101  Foundations of the US Air Force I  1 CR
Contact Hours:  1 + 0
Special Fees.
Introduces basic military concepts. Covers key events in US Air Force history,
military customs and courtesies, ethics, and communication skills.

AIRS A102  Foundations of US Air Force II  1 CR
Contact Hours:  1 + 0
Special Fees.
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  .5 CR
Contact Hours:  0 + 1
Grade Mode: Pass/No Pass.
Special Fees.
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.

AIRS A201  Evolution of Air and Space Power I  1 CR
Contact Hours:  1 + 0
Special Fees.
Examines the evolution of air and space combat technology, doctrine, 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  1 CR
Contact Hours:  1 + 0
Special Fees.
Examines the evolution of air and space 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
Special Fees.
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
Special Fees.
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
Special Fees.
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
Special Fees.
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
College of Arts & Sciences (CAS), Room 354, 786-6135

AKNS A101  Alaska Native Languages I  4 CR
Contact Hours:  4 + 0
Course Attributes: GER Humanities Requirement.
Special Note: May be repeated for credit if language varies. Languages currently available: Central Yup’ik, Siberian Yup’ik, Tingit, Inupiaq, and Haida - eyak.

AKNS A102  Alaska Native Languages II  4 CR
Contact Hours:  4 + 0
Prerequisites: AKNS A101.
Course Attributes: GER Humanities Requirement.

AKNS A109  Alaska Native Language Orthography  4 CR
Contact Hours:  4 + 0
Prerequisites: AKNS A101. Stacked with: AKNS A102.

AKNS A110  Parliamentary Procedures  1 CR
Contact Hours:  1 + 0
Crosslisted with: PS A110.

AKNS A201  Native Perspectives  3 CR
Contact Hours:  3 + 0
Course Attributes: GER Humanities Requirement.

AKNS A210  Selected Topics in Alaska Native Studies  1-3 CR
Contact Hours:  1-3 + 0
Special Fees.

AKNS A346  Alaska Native Politics  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Upper-division standing.

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.

AKNS A420  Alaska Native Education  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Upper-division standing.

ANTHROPOLOGY - ANTH

Offered through the College of Arts and Sciences
Beatrice McDonald Building (BMB), Room 214, 786-6840

ANTH A101  Introduction to Anthropology  3 CR
Contact Hours:  3 + 0
Course Attributes: GER Social Sciences Requirement.
Special Note: Recommended for majors and non-majors.

ANTH A200  Natives of Alaska  3 CR
Contact Hours:  3 + 0
Course Attributes: GER Social Sciences Requirement.

Special Note: May be repeated for credit if language varies. Languages currently available: Central Yup’ik, Siberian Yup’ik, Tingit, Inupiaq, and Haida - eyak.

A brief history of Alaska Native languages is included.

Some reading and writing included.

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.

A brief survey of Alaska Native languages for beginners with no, or little, prior knowledge of the specific language. Aural/oral skills are stressed and TPR (Total Physical Response) and other communicative approaches used. Emphasis is on everyday vocabulary, structure, and phonetics.

A brief history of Alaska Native languages is included.

Registration Restrictions: Upper-division standing.

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.

continued
Course Descriptions

ANTH A202  Cultural Anthropology  3 CR
Contact Hours:  3 + 0
Course Attributes: GER Social Sciences Requirement.
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
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
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
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: GER Social Sciences Requirement.
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
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
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.
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.
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
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
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 A413  Peopling of the Americas  3 CR
Contact Hours:  3 + 0
Prerequisites: ANTH A312.
Registration Restrictions: ANTH A211 strongly recommended.
Stacked with: ANTH A613.
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.
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.
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 A201 or ANTH A202.
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.
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.
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.
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
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.
Offered as Demand Warrants.
Eskimo peoples of the circumpolar north devoted primarily to Alaskan groups
including Inupiaq, Alutiiq, and Yup’ik (including Siberian Yup’ik). Includes
environment, language, social organization, subsistence patterns, contact with
non-Native peoples, art and architecture, and contemporary issues.

ANTH A438  Tiingit and Haida Adaptations  3 CR
Contact Hours:  3 + 0
Registration Restrictions: ANTH A200 or ANTH A435 recommended.
Offered as Demand Warrants.
Examines the adaptations of the Tiingit 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.
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, communities 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.
Offered as Demand Warrants.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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 A645 Advanced Evolution of Humans and Disease 3 CR

Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Stacked with: ANTH A445.
Special Fees.

Methods, techniques, and theoretical approaches to human skeletal identification, description, and analysis. Encompasses principles of growth, development, and remodeling as well as identification of age, sex, and racial attributes, and interpretation of pathological changes in human bone. 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.

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 A685 Advanced Analytical Techniques in Archaeology 3 CR

Contact Hours: 2 + 3
Registration Restrictions: Graduate Standing.
Stacked with: ANTH A485.
Special Fees.

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 A665 Analytical Techniques in Biological Anthropology 3 CR

Contact Hours: 2 + 3
Registration Restrictions: Graduate Standing.
Stacked with: ANTH A465.
Special Fees.

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.
Stacked with: ANTH A475.
Special Fees.

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 A681 Advanced Museum Studies in Anthropology 3 CR

Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Stacked with: ANTH A481.
Special Fees.

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 A683 Archaeology of Animals 3 CR

Contact Hours: 2 + 3
Registration Restrictions: Graduate Standing and previous or concurrent course in archaeology laboratory methods.

Methods, techniques, 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.

Methods, techniques, 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 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.

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 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
http://www.uaa.alaska.edu/aoee/
Offered through the Community & Technical College
Eugene Short Building (ESB), Room 125, 786-4066

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 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-roping.

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-roping.

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-roping 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.
COURSE DESCRIPTIONS

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.

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.

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 inclement weather. Good physical fitness required for all-day outings. Students may need to rent or purchase additional equipment for this course.

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. Covers hazard evaluation, selection of personal clothing, ski and safety equipment, recognition and prevention of cold-weather injuries, skinning skills, and trail ethics.

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.

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.

AOEE A151 Introduction to Alpine Skiing 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires ability to perform comfortably in extremely cold and/or inclement weather.

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.

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.

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.

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.

AOEE A156 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.

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.

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.
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 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 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 A102 Fiber and Basketry Activities 1-3 CR
(Select Fiber, Basketmaking, 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 fiber, 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 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, cardboard, 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 A120 Art Appreciation 3 CR
Contact Hours: 3 + 0
Course Attributes: 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 A187A  Oil Painting for Pleasure  3 CR
Contact Hours:  3 + 0
Special Note: Does not satisfy BA in Art or BFA degree requirements.
   Designed for beginning and intermediate painters. Emphasizes individual growth. Subject matter includes Alaskan scenes as well as other selections.

ART A187B  Wildlife Painting  3 CR
Contact Hours:  3 + 0
Prerequisites: ART A105.
   Special Note: Does not satisfy BA in Art or BFA requirements.
   Emphasizes accurate rendition of wildlife and close attention to the proper habitat scenes. Students will illustrate Native and foreign mammals and birds in their natural habitats.

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.
   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 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.
   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: GER Fine Arts Requirement GER Humanities Requirement.
   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: GER Fine Arts Requirement GER Humanities Requirement.
   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 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 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 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 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 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 A366 History of Asian Art 3 CR
Contact Hours: 3 + 0
Prerequisites: ART A261.
Special Fees.
Visual arts of Asian 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: GER Fine Arts Requirement 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 dying as a culture-rooted art and its place in the contemporary fiber movement. Bound resists: Shibori, fold dyeing, Plangi and Tritik are utilized as the basis for individual expression and design 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.
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.
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.
Investigate the development of ideas through experimentation with contemporary techniques and materials in drawing.

ART A411 Advanced Sculpture 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A311.
Stacked with: ART A211 and ART A311.
Special Fees.
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.
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.
Individual ideas, experimentation, and techniques in watercolor 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.
Individual 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.
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 A205 and ART A251 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.
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COURSE DESCRIPTIONS

AS A310  Regression Analysis  3 CR
Contact Hours:  3 + 0
Prerequisites: AS A307.

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 A312  Analysis of Variance  3 CR
Contact Hours:  3 + 0
Prerequisites: AS A308.

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 A315  Nonparametric Statistics  3 CR
Contact Hours:  3 + 0
Prerequisites: AS A307.

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 A400  Selected Topics in Statistics  3 CR
Contact Hours:  3 + 0
Prerequisites: AS A252 or AS A307.

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.

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 A407  Time Series Analysis  3 CR
Contact Hours:  3 + 0
Prerequisites: AS A307.

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.

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.

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

http://cwolf.uaa.alaska.edu/~aylang/

Offered through the College of Arts and Sciences
Business Education Building (BEB), Room 105, 786-4536

ASL A101  Elementary American Sign Language I  3 CR
Contact Hours:  3 + 0
Course Attributes: GER Humanities Requirement.

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: GER Humanities Requirement.

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: GER Humanities Requirement.

Continuation of ASL A101, designed 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.

ASL A202  Intermediate American Sign Language II  3 CR
Contact Hours:  3 + 0
Prerequisites: ASL A201.

Course Attributes: GER Humanities Requirement.

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

http://local.uaa.alaska.edu/~ajpp/physics.html

Offered through the College of Arts and Sciences
Engineering Building (ENGR), Room 339, 786-1238

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: GER Natural Sciences w/ Lab.
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: GER Natural Sciences w/ Lab.

Introduction to stellar, galactic, extragalactic astronomy. Stars, clusters, galaxies, stellar evolution, the universe as a whole, and cosmology; includes laboratory.
AVIATION TECHNOLOGY - AT

Contact Mode: Pass/No Pass.

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
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
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
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
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

AT A134 
Principles of Aviation Administration 3 CR
Contact Hours: 3 + 0

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.
COURSE DESCRIPTIONS

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: 3 + 0
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: 0 + 5
Prerequisites: (AT A170 or concurrent enrollment).
Registration Restrictions: Formal acceptance into AMT certificate or degree program.
Corequisite: AT A185L.
Special Fees.
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) or.
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.

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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.

AT A235 Elements of Weather 3 CR
Contact Hours: 3 + 0
Special Fees.
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, phraseology, 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 phrasing, 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 in the terminal radar laboratory simulators to develop techniques for the separation, vectoring and speed control of aircraft in a terminal radar environment.

AT A243 ATC Enroute Procedures 3 CR
Contact Hours: 3 + 0
Special Fees.
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 controller 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 A276 and 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 A276 and 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 A279.
Special Fees:
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:
Provides 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
avionic 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.
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.
This course placed students in 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.
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 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 testing 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 (FARs) dealing with airport operations; environmental issues; land use planning; airport capacity design; 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 A102 and AT A134.
Examines the management and operations of civil airports. Emphasizes master planning, Federal Aviation Regulations (FARs) dealing with airport operations; environmental issues; land use planning; airport capacity design; access factors; economics impacts; financial analyses and budgeting systems; security; liability; maintenance; professional qualification; and relations.

AT A337  Airline Operations  3 CR
Contact Hours:  3 + 0
Prerequisites: AT A102 and AT A134.
Examines the management and operations of civil airports. Emphasizes master planning, Federal Aviation Regulations (FARs) dealing with airport operations; environmental issues; land use planning; airport capacity design; access factors; economics impacts; financial analyses and budgeting systems; security; liability; maintenance; professional qualification; and relations.

AT A340  Terminal Instrument Procedures  3 CR
Contact Hours:  3 + 0
Prerequisites: MATH A272.
Examines the criteria used to formulate, review, approve, and publish procedures for instrument approach and departure of aircraft to and from civil and military airports.

AT A361  Federal Aviation Administration Inspection Authorization  3 CR
Contact Hours:  3 + 0
Registration Restrictions: FAA mechanic certificate, and airframe and power plant license.
Certified, experienced aviation maintenance technicians will become familiar with the privilege, limitations, authority and responsibilities of FAA inspection authorized mechanics. They will become proficient in the use of required data (regulations, specifications, service information, advisory circulars, etc.) and the application of that data to decisions involving airworthiness of certified products.

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 A367  ACFT Assembly and Inspections Lab  2 CR
Contact Hours:  3 + 0
Prerequisites: AT A185 and AT A185L and AT A273 and AT A273L, and AT A277 and AT A277L and AT A279 and AT A279L and (AT A274 or concurrent enrollment) and (AT A274L or concurrent enrollment) and (AT A283 or concurrent enrollment) and (AT A283L or concurrent enrollment).
Corequisite: AT A367L.
Covers rules and procedures for performance of scheduled and non-scheduled aircraft inspections. Includes researching regulations and data, and planning, performing and recording findings of inspections. Also includes procedures for jacking and weighing of aircraft and disassembly, balancing, reassembly, and rigging of aircraft assemblies and flight controls and evaluating the condition of aircraft, engines and systems to determine airworthiness.

AT A367L  ACFT Assembly and Inspections  4 CR
Contact Hours:  0 + 6
Prerequisites: AT A185 and AT A185L and AT A273 and AT A273L, and AT A277 and AT A277L and AT A279 and AT A279L and (AT A274 or concurrent enrollment) and (AT A274L or concurrent enrollment) and (AT A283 or concurrent enrollment) and (AT A283L or concurrent enrollment).
Corequisite: AT A367.
Covers rules and procedures for performance of scheduled and non-scheduled aircraft inspections. Includes jacking and weighing of aircraft, disassembly, balancing, reassembly, and rigging of aircraft assemblies and flight controls, researching data, inspecting systems and components, evaluating the condition of aircraft, engines and systems to determine airworthiness, recording findings in maintenance records.

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.
Fulfills FAA flight training requirements for obtaining an Airline Transport Pilot Certificate under FAR Part 141.

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.
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.
COURSE DESCRIPTIONS

AT A311 Aircraft Accident Investigation 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A233 and AT A331.
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 A464 Advanced Avionics Systems 4 CR
Contact Hours: 4 + 0
Prerequisites: AT A364 or ET A340.
Includes design, installation, operation, testing and maintenance of advanced avionics in use for instrumentation, navigation, communication, flight management and automatic control of aircraft and auxiliary systems. Also covers digital avionics, on-board computers and integrated flight management, performance management, indication and warning and autoflight systems.

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.

BA A132 Successful Money Management 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Matanuska-Susitna College.
How money is used by a family. Types of savings and investment vehicles available. Methods of investing, investing for growth, income and tax reduction, management of financial risk, preservation of capital, and transfer of estate with minimal estate tax.

BA A151 Introduction to Business 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
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
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 A223 Real Estate Law 3 CR
Contact Hours: 3 + 0
Practical course to assist students in surveying various kinds of deeds and conveyances, mortgages, liens, rentals, appraisals, and other real estate transactions involving law.

BA A231 Fundamentals of Supervision 3 CR
Contact Hours: 3 + 0
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 commended situations facing supervisors.

BA A232 Fundamentals of Organizational Management 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A231.
Special Fees.
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.
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.
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.
Offered as Demand Warrants.
Emphasizes basic principles, institutions, and administration of law in suretyships, partnerships, corporations, trusts, bankruptcy, negotiable instruments and sale of goods.

BUSINESS ADMINISTRATION - BA

http://www.cbpp.alaska.edu

Offered through the College of Business & Public Policy
Business Education Building (BEB), Room 309, 786-4100
Each student taking any ACCT, BA, CIOS, ECON, 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 extended sites.

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
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 A260 Marketing Practices 3 CR
- **Contact Hours:** 3 + 0
- **Prerequisites:** BA A151.
- **Offered:** Fall and Spring Semesters.

Designed to give students a real-world view of basic marketing principles and practices. Emphasizes 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 A261 Advertising and Sales Promotion 3 CR
- **Contact Hours:** 3 + 0
- **Prerequisites:** BA A260.
- **Offered as Demand Warrants.**

Introduces advertising and sales promotion. Integrates theory and practice. Examines advertising role in today’s complex society. Covers creation of advertising message, dynamics of media, and coordination of advertising and sales promotion with other marketing elements.

### BA A263 Practices in Consumer Behavior 3 CR
- **Contact Hours:** 3 + 0
- **Prerequisites:** BA A260.
- **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
- **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 3 CR (Principles)
- **Contact Hours:** 3 + 0
- **Prerequisites:** CIOS A110 and/or 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 A285 Supervision/Management By Objectives 3 CR
- **Contact Hours:** 3 + 0
- **Offered only at AVTEC in Seward through Kenai Peninsula College.**

Covers small group leadership and management so the student can function effectively as a foreman, fire crew boss, or unit supervisor. Emphasizes goal accomplishment, including identification of goals, planning and evaluation.

### BA A295 Internship in Business Administration 3 CR
- **Contact Hours:** 0 + 9
- **Registration Restrictions:** Department permission required. ENGL A111, COMM A111, MATH A105 or A107 recommended.
- **Grade Mode:** Pass/No Pass.
- **Special Note:** Course may be taken only once for credit.

Placement of students in generalized and specialized work environment where the integration of classroom theory with practical and related experience takes place for specific periods of time. Direct supervision by the employer, faculty and cooperative education department is provided during the student’s work period.

### 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.
- **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.
COURSE DESCRIPTIONS

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.
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.
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.
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 CIOS A110.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
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 CIOS A110.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Offered Spring Semesters.

A comprehensive study of the functions, structures, delivery systems, efficiency, 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 CIOS A110.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
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.
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 CIOS A110.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
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.
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.
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.
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.
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.
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Registration Restrictions</th>
<th>Offered Semesters</th>
<th>Prerequisites</th>
<th>Crosslisted</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA A488</td>
<td>The Environment of Business</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing. 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.</td>
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<tr>
<td>BA A489</td>
<td>Entrepreneurship and New Business Planning</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing. 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.</td>
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<tr>
<td>BA A490</td>
<td>International Comparative Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing. Offered as Demand Warrants. Emphasizes differences and similarities between business management concepts and practices across cultures and geographic boundaries. The perspective of a global economy is adopted.</td>
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<tr>
<td>BA A495</td>
<td>Business Administration Internship</td>
<td>3 CR</td>
<td>0 + 9</td>
<td>Registration Restrictions: Permission of the department chair, College of Business &amp; Public Policy majors must be admitted to upper-division standing. Grade Mode: Pass/No Pass. Special Note: Course may be taken only once for credit. Integrates classroom study with paid, 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.</td>
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<tr>
<td>BA A601</td>
<td>Business Statistics and Data Analysis</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Registration Restrictions: Graduate Standing. 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.</td>
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<tr>
<td>BA A602</td>
<td>Fundamentals of Finance</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Graduate Standing. 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.</td>
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<tr>
<td>BA A604</td>
<td>Marketing Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Graduate Standing. 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.</td>
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<tr>
<td>BA A606</td>
<td>Fundamentals of Production/Operations Management</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Registration Restrictions: Graduate Standing. 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.</td>
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<tr>
<td>BA A617</td>
<td>Technology Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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. Special Fees. Issues and case studies of policy development, strategy, planning and management of technology in the overall corporate environment.</td>
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<tr>
<td>BA A619</td>
<td>Computer Simulation of Systems</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
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<tr>
<td>BA A623</td>
<td>Total Quality Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
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<tr>
<td>BA A625</td>
<td>Marketing of Business Products and Services</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
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<tr>
<td>BA A631</td>
<td>Business Environment Analysis</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Completion of MBA foundation course requirements and graduate standing. 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.</td>
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<tr>
<td>BA A632</td>
<td>Organizational Behavior and Human Resource</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Graduate Standing. 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.</td>
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<tr>
<td>BA A633</td>
<td>Problem Formulation and Decision Analysis</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ECON A602 and CIOS A605 and BA A601 and BA A606. Registration Restrictions: Graduate Standing. 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.</td>
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<td>BA A634</td>
<td>Creating the Successful Organization</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A632. Registration Restrictions: Graduate Standing. 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.</td>
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BIOL A652 International Comparison of Business Practices 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A601 and BA A603.
Registration Restrictions: Graduate Standing.
A comparative 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 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.
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.
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.

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 A101 Genes and Society 3 CR
Contact Hours: 3 + 0
An introduction to gene technology, including current applications of this technology and its impact on society.

BIOL A102 Introductory Biology 3 CR
Contact Hours: 3 + 0
Course Attributes: 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: GER Natural Sciences w/ Lab.
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.
Survey 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: GER Natural Sciences w/ Lab.
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: GER Natural Sciences w/ Lab.
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.
BIOE 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.
Corequisites: BIOL A115L.
Course Attributes: GER Natural Sciences w/ Lab.
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.

BIOE 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.

BIOE 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.

BIOE 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.

BIOE 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.

BIOE 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.

BIOE 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.

BIOE 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.

BIOE A242L Fundamentals of Cell Biology Lab 0 CR
Contact Hours: 0 + 0
Corequisite: BIOL A242.
Grade Mode: Non-Grad.
Special Fees.
Laboratory part of BIOL A242. Exercises are designed to illustrate principles and concepts developed in BIOL A242.

BIOE A252 Principles of Genetics 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A242 and [CHEM A106 and CHEM A106L] and MATH A107.
Corequisites: 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.

BIOE A271 Principles of Ecology 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOE 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.

BIOE 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.

BIOE A308 Principles of Evolution 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOE A252 and BIOE 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.

BIOE A309 Biogeography 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOE 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.

BIOE A310 Principles of Physiology 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOE A242.
Special Note: Satisfies physiology core curriculum requirement for biology majors.
This course emphasizes the fundamental principles of cellular and system physiology of humans.
COURSE DESCRIPTIONS

BIOL A316  Introduction to Plant Physiology  3 CR
Contact Hours:  3 + 0
Prerequisites: BIOL A242.
Special Note: Satisfies biology 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.
- 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 A333.
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.
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 A116.
Registration Restrictions: 8 additional biology credits.
Corequisite: BIOL A340L.
Special Note: Two 3-hour labs per week. Core course for BS biology majors.
- 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  Environmental Biology  3 CR
Contact Hours:  3 + 0
Prerequisites: [ENVI A201 and ENVI A202] or [BIOL A116 and CHEM A106 and CHEM A106L].
Advanced environmental biology dealing with human population growth and the impact on environmental degradation and resource depletion.

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.
Special Fees.
- Demonstration and use of tissue techniques including procurement, preservation embedding, sectioning, staining, microscopy, photography, and illustration.

BIOL A412  Endocrinology  3 CR
Contact Hours:  3 + 0
Prerequisites: BIOL A252 and BIOL A310 and CHEM A322.
- A detailed and comprehensive study of endocrine glands and hormones. Special emphasis on chemical and physiological principles of hormonal integration, mechanisms of action, and homeostatic functions of hormones in mammals.

BIOL A415  Comparative Animal Physiology  4 CR
Contact Hours:  3 + 3
Prerequisites: BIOL A242 and BIOL A271.
Stacked with: BIOL A615.
Special Fees.
- Survey of the class Mammalia, emphasizing systematic, morphology, physiology, ecology, evolution, behavior, and conservation.

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.
Special Fees.
- Survey of the class Mammalia, emphasizing systematic, 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 systematic, 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 Note: Students who completed BIOL A430 as part of their undergraduate degree cannot receive credit towards their graduate degree from 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 A252 and CHEM A106 and CHEM A106L 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.
- **Special Fees:**
  - 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 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 Immunochemistry 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 immunological 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 A371.
- **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 A485 Selected Topics in Biology 1-4 CR
- **Contact Hours:** 1-4 + 0
- **Registration Restrictions:** 16 credits in biology.
- **Stacked with:** BIOL A685.
- **Special Fees:**
  - 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 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.
- **Special Fees:**
  - 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.
- **Special Fees:**
  - 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.
- **Special Fees:**
  - 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.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Registration Restrictions</th>
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<th>Special Fees</th>
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</thead>
<tbody>
<tr>
<td>BIOL A614</td>
<td>Biochemistry I</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Admission to graduate program in Biology. Biomedical Program Director and faculty approval.</td>
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<td>BIOM A614</td>
<td>Special Fees. 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.</td>
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<tr>
<td>BIOL A615</td>
<td>Advanced Comparative Animal Physiology</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Graduate Standing. Stacked with: BIOL A415. 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.</td>
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<td>BIOL A415</td>
<td>Special Fees.</td>
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<tr>
<td>BIOL A620</td>
<td>Cell and Tissue Responses to Injury</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Admission to graduate program in Biology; Biomedical Program director and faculty approval. Crosslisted with: BIOM 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.</td>
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<tr>
<td>BIOL A621</td>
<td>Microbiology and Infectious Disease I</td>
<td>5 CR</td>
<td>5 + 0</td>
<td>Admission to graduate program in Biology; Biomedical Program director and faculty approval. 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.</td>
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<td>BIOL A621</td>
<td>Special Fees.</td>
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<td>BIOL A623</td>
<td>Introduction to Immunology</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Admission to graduate program in Biology. Biomedical Program Director and faculty approval. Crosslisted with: BIOM A623. Special Fees. 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).</td>
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<tr>
<td>BIOL A624</td>
<td>Biochemistry II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Admission to graduate program in Biology; Biomedical Program director and faculty approval. Crosslisted with: BIOM A624. Special Fees. Continuation of BIOL A614.</td>
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<tr>
<td>BIOL A630</td>
<td>Advanced Marine Mammal Biology</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Graduate Standing. Stacked with: BIOL A430. 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.</td>
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<td>BIOL A430</td>
<td>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.</td>
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<td>BIOL A631</td>
<td>Gross Anatomy II</td>
<td>4 CR</td>
<td>3 + 0</td>
<td>Admission to graduate program in Biology; Biomedical Program director and faculty approval. Crosslisted with: BIOM A631. Special Fees. 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.</td>
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<td>BIOM A631</td>
<td>Special Fees.</td>
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<td>BIOL A632</td>
<td>Nervous System</td>
<td>5 CR</td>
<td>5 + 0</td>
<td>Admission to graduate program in Biology; Biomedical Program director and faculty approval. Crosslisted with: BIOM A632. Special Fees. 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.</td>
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<td>BIOL A634</td>
<td>Microbiology and Infectious Disease II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Admission to graduate program in Biology; Biomedical Program director and faculty approval. Crosslisted with: BIOM A634. Special Fees.</td>
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<tr>
<td>BIOL A645</td>
<td>Advanced Herbivore Ecology</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Admission to graduate program in Biology. Biomedical Program Director and faculty approval. Crosslisted 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.</td>
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<tr>
<td>BIOL A648</td>
<td>Ecological Modeling</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Admission to graduate program in Biology. Biomedical Program Director and faculty approval. Crosslisted with: BIOL A648.</td>
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<tr>
<td>BIOL A650</td>
<td>Advanced Microbial Ecology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Admission to graduate program in Biology. Biomedical Program Director and faculty approval. Crosslisted with: BIOL A650. Special Fees.</td>
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<tr>
<td>BIOL A661</td>
<td>Advanced Molecular Biology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Admission to graduate program in Biology. Biomedical Program Director and faculty approval. Crosslisted with: BIOL A661.</td>
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<td>BIOL A662</td>
<td>Advanced Virology</td>
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<td>Special Note: Lectures concurrent with BIOL A462.</td>
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<td>BIOL A663</td>
<td>Molecular Biology of Cancer</td>
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<td>3 + 0</td>
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<td>BIOL A668</td>
<td>Advanced Biogeochemistry</td>
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<td>3 + 0</td>
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<td>BIOL A672</td>
<td>Vegetation Analysis</td>
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<td>BIOL A675</td>
<td>Advanced Arctic Tundra Ecosystems</td>
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<td>BIOL A676</td>
<td>Advanced Boreal Ecosystems</td>
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<td>BIOL A679</td>
<td>Physiological Plant Ecology</td>
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<td>BIOL A685</td>
<td>Advanced Topics in Biology</td>
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<td>BIOL A692</td>
<td>Graduate Seminar</td>
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<td>BIOL A698</td>
<td>Directed Research</td>
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**BIOMEDICAL PROGRAM - BIOM**

http://www.uaa.alaska.edu/biom/

Offered through the College of Arts and Sciences
Engineering Building (ENGR), Room 331, 786-4789

**BIOM A610**

**Microscopic Anatomy**

Contact Hours: 2 + 3

Registration Restrictions: Admission to Biomedical Program-WWAMI.

Grade Mode: Pass/No Pass.

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 current and subsequent courses.

**BIOM A611**

**Gross Anatomy I and Embryology**

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 visceral area. Emphasis on three-dimensional interrelationships and the general principles of blood and nerve supply rather than detailed anatomy of individual organs.

**BIOM A612**

**Mechanisms in Cell Physiology**

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.
COURSE DESCRIPTIONS

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.
- 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.
Special Fees.
- Continuation of BIOM A614.

Biom A630 Epidemiology
2 CR
Contact Hours: 2 + 0
Registration Restrictions: Admission to Biomedical Program-WWAMI.
Grade Mode: Pass/No Pass.
- Introduction to principles of epidemiology and biostatistics, emphasizing application to clinical medicine. Three broad topics: health and disease in community; interpretation of research results; and clinical epidemiology.

Biom A631 Gross Anatomy II (Head, Neck, Ear, Nose, and Throat)
4 CR
Contact Hours: 4 + 0
Registration Restrictions: Admission to Biomedical Program-WWAMI.
Grade Mode: Pass/No Pass.
Crosslisted with: BIOL A631.
Special Fees.
- 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.
Special Fees.
- Continuation of BIOM A621.

CULINARY ARTS - CA

Offered through the Community & Technical College
Lucy Cuddy Center (CUDY), Room 126, 786-4728

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. Focuses on the legal ramifications, serving and uses in foodservice. Dispensing equipment, set-up and maintenance are also discussed.

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 the legal ramifications, serving and uses in foodservice. Dispensing equipment, set-up and maintenance are also discussed.

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 students to a la carte foodservice. Emphasis on the 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 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. Students will also be exposed to ice carving, tallow and dough sculpting, and preparation and presentation of terrines, pates, appetizers and display pieces essential to buffet service.

CA A224  Hospitality Service  3 CR
Contact Hours:  1 + 6
Prerequisites: CA A201.
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 flambe. 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  1.5 CR
Contact Hours:  0 + 6
Corequisite: CA A220.
Grade Mode: Pass/No Pass.
Field experience course of 90 hours with 6 hours instructor contact. Assignments parallel topics in CA A220.

CA A295B  Foodservice Management Practicum  .5 CR
Contact Hours:  0 + 3
Corequisite: CA A230.
Grade Mode: Pass/No Pass.
Field experience course of 45 hours with 3 hours instructor contact. Assignments parallel topics in CA A230.

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.
Special Fees.
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.
CIVIL ENGINEERING - CE

http://www.engr.uaa.alaska.edu
Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900

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.
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 A402 Transportation Engineering 3 CR
Contact Hours: 2 + 3
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.
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.
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.
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.
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.
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.
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.
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: CE A441.
Special Fees.
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.
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.
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 A620 Civil Engineering Construction 3 CR
Contact Hours: 3 + 0
Prerequisites: ESM A450.
Special Fees.
Construction equipment and methods, construction management and accounting, construction estimates and costs.
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.

- 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 A636 Multi-Story Building Structural Design 3 CR  
Contact Hours: 3 + 0  
Prerequisites: CE A431 and CE A432 and CE A433.

Offered as Demand Warrants.

- Design of structural systems for buildings. Covers the computation of loads on buildings, the selection and analysis of structural systems, building codes and their origins, and an introduction to the development of design drawings and specifications.

CE A649 Urban Transportation Planning 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing in engineering or planning or faculty permission.

The urban transportation planning process with emphasis on travel demand forecasting procedures using a multimodal approach.

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.

Offered Alternate Spring Semesters.

- Review of deep and shallow water waves, littoral drift, coastal structures, pollution problems, and harbor seiches.
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  Crisis Intervention Training  4 CR  
Contact Hours:  3 + 2  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.  

Special Note: Includes 37 hours of lecture, with an 8 hour update at the end of 3 months, 30 hours of active participation in the shelter (as a crisis line/shelter volunteer), CPR and First Aid Certification, and attendance at a minimum of 2 volunteer meetings. Several guest speakers from the community and WRCC will be presenting topics on a wide variety of issues.  

- Prepares students for volunteer work in a shelter for battered women and their children.

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 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 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 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 A232  Professional/Business Development Conference for Women  1 CR  
Contact Hours:  1 + 0  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.  

- A series of workshops exploring a wide variety of contemporary business and professional development topics such as career and leadership development, management, personal effectiveness and workplace skills.

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.

CED A241  Classroom Volunteer Training  1 CR  
Contact Hours:  1 + 0  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.  

- Explores current “Best practices” at an introductory level to equip volunteers to more effectively assist classroom teachers. Provides opportunities for directed observation as well as information on strategies and activities for increasing academic learning.

CED A243  Parent to Parent: Facilitator Training  1 CR  
Contact Hours:  1 + 0  
Registration Restrictions: Participants must have either attended the 8 hour Parent to Parent Workshop, listened to the audio presentation of the workshop, or instructor permission.  
Grade Mode: Pass/No Pass.  

- Provides parents, teachers, administrators, counselors, and nurses with facilitator skills and strategies for the “Parent to Parent: Parenting for Safe and Drug Free Youth Program.”

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**CHEMISTRY - CHEM**

[Link to Chemistry Department](http://www.uaa.alaska.edu/chem/chem.htm)  

Offered through the College of Arts and Sciences  

**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.
COURSE DESCRIPTIONS

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: 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: 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: GER Natural Sciences Requirement.
Special Note: CHEM A103 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, and nucleic acids. Topics include organic nomenclature, structures, and simple reactions.

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: 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: 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: 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: 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: 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 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 4 CR
Contact Hours: 3 + 4
Prerequisites: CHEM A106 with minimum grade of C and CHEM A106L with minimum grade of C.
Corequisite: CHEM A321L.
- A theoretical and laboratory course designed to study the important classes of carbon compounds including alkanes, alkenes, alkyl halides and their cyclic derivatives. Included will be a study of reactions, reaction mechanisms, and stereochemistry of these compounds.

CHEM A322 Organic Chemistry II 4 CR
Contact Hours: 3 + 4
Prerequisites: CHEM A321 with minimum grade of C.
Corequisite: CHEM A322L.
- A continuation of CHEM 321 including the study of spectroscopic means of structure determination, conjugated compounds, aromatic compounds, and carbonyl compounds. Various classes of reactions of these compounds will be studied also. Included in this study will be such topics as electrophilic aromatic substitution, addition, and condensation reactions of carbonyl compounds. Synthetic methods and reaction mechanisms will be emphasized throughout the course.

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: CHEM A322 with minimum grade of C.
- A study of the structure and function of proteins, carbohydrates, fats, vitamins, coenzymes, and nucleic acids and the degradative and biosynthetic pathways involving these biomolecules.

CHEM A442 Principles of Biochemistry II 3 CR
Contact Hours: 3 + 0
Prerequisites: CHEM A441 with minimum grade of C.
- Topics will include a discussion of biomolecules with respect to their structure and function, metabolism, and molecular physiology.
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 A452 Inorganic Chemistry I 3 CR
Contact Hours: 3 + 0
Prerequisites: CHEM A321 with minimum grade of C and CHEM A331 with minimum grade of C.
A study of structures and bondings in inorganic compounds with emphasis on the chemistry of the main group elements.

CHEM A453 Inorganic Chemistry II 5 CR
Contact Hours: 3 + 6
Prerequisites: CHEM A452 with minimum grade of C.
A continuation of CHEM 452. A study of structures, bondings, and reaction mechanisms of d- and f-block elements.

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 immunological 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.
Special Note: Not available for credit to students who have completed CHEM 434.
   Lectures concurrent with CHEM 434. In addition to meeting all requirements for CHEM 434, 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 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.

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CHINESE - CHIN

http://cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030

CHIN A101 Elementary Chinese I 4 CR
Contact Hours: 4 + 0
Course Attributes: 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: 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.

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COMPUTER INFORMATION & OFFICE SYSTEMS - CIOS

Offered through the Community & Technical College
Allied Health Sciences Building room 169, 786-6400

CIOS A082 Clerical Accounting 3 CR
Contact Hours: 3+0 or 0+6
Special Note: May be offered as either classroom or open-entry, individualized course.
   Includes elements of accounting, accounting equation, and analysis of all business transactions.

CIOS A100 Keyboarding I 3 CR
Contact Hours: 3+0 or 0+6
Special Fees:
   Basic keyboarding skills emphasizing correct techniques and development of speed and accuracy. Introduces centering, typing personal and business letters, envelopes, tables and manuscripts. Requires no previous typing training.

CIOS A100A Keyboarding I: A 1 CR
Contact Hours: 0 + 2
Special Fees:
Special Note: May be offered as either classroom or open-entry, individualized course.
   Offered as Demand Warrants.

CIOS A100B Keyboarding I: B 1 CR
Contact Hours: 0 + 2
Prerequisites: CIOS A100A.
Special Note: Open-entry, individualized course. CIOS A100A, A100B, and A100C are equivalent to CIOS A101.
   Offered as Demand Warrants.

CIOS A100C Keyboarding I: C 1 CR
Contact Hours: 0 + 2
Prerequisites: CIOS A100B.
Special Note: Open-entry, individualized course. CIOS A100A, A100B, and A100C are equivalent to CIOS A101.
   Offered as Demand Warrants.

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CIOS A102 Keyboarding Skill Building 1 CR
Contact Hours: 0 + 2
Prerequisites: CIOS A100.
Grade Mode: Pass/No Pass.
Registration Restrictions: Keyboarding skill of at least 30 WPM recommended.
Drills to improve speed and/or accuracy on straight copy typing.

CIOS A105 Introduction to PC Computers and Applications 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Keyboarding skill of at least 30 WPM recommended.
Introduction to using PC software. Includes word processing, database management, electronic spreadsheets, and graphics.

CIOS A105A Introduction to PC Computers 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Keyboarding skill of at least 30 WPM recommended.
Introduction to using PC software. Includes word processing, database software, spreadsheets, data management, communications, and graphics.

CIOS A107 Macintosh Computer and Applications 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A100.
Registration Restrictions: Keyboarding skill of at least 30 WPM.
Introduction to Macintosh computer hardware and software, including word processing, spreadsheets, data management, communications, and graphics.

CIOS A107A Introduction to Macintosh Computers 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Keyboarding skills of at least 30 WPM recommended.
Introduction to using Macintosh software. Includes word processing, database management, electronic spreadsheets, and graphics.

CIOS A109 Introduction to ClarisWorks 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A107A or CIOS A113B.
Introduction to integrated software program - learning basic components. Students will have assigned as well as individual projects.

CIOS A110 Computer Concepts in Business 3 CR
Contact Hours: 3 + 0
Registration Restrictions: The following are recommended: MATH A105, CIOS A105 or ability to use Windows or Macintosh, and keyboarding skills of at least 30 wpm.
Offered Fall and Spring Semesters.
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 applications.

CIOS A111C Introduction to Lotus in Windows 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Keyboarding skill of at least 30 WPM recommended.
Introduction to design and use of electronic spreadsheets in a Windows environment. Covers the basic Lotus 1-2-3 for Windows commands and functions needed to create, manipulate, and print spreadsheets.

CIOS A111D Introduction to Excel in Windows 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A113B.
Registration Restrictions: Keyboarding skill of at least 30 WPM recommended.
Introduction to design and use of electronic spreadsheets in a Windows environment. Covers the basic Excel for Windows commands and functions needed to create, manipulate, and print spreadsheets.

CIOS A111E Quicken/Introduction to Personal Accounting 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Introduction to design and use of 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.
COURSE DESCRIPTIONS

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 A160 Business English 3 CR
Contact Hours: 3 + 0
Offered Fall and Spring Semesters.
- Develops skills in English fundamentals with emphasis on language usage. Intensive study of grammar, punctuation, capitalization, spelling, word usage, and sentence structure.

CIOS A161 Business Math 3 CR
Contact Hours: 3+0 or 0+6
Registration Restrictions: Qualifying exam and faculty signature for open-entry class only.
Special Note: Students supply own calculators or use college equipment. May be offered as either classroom or open-entry, individualized course.

CIOS A162 Payroll Procedures 1 CR
Contact Hours: 0 + 2
Special Note: Each student is expected to complete a minimum of 30 hours in the lab.
Offered as Demand Warrants.
Realistic activities introduce the student to preparation of payroll records and tax returns. Up-to-date payroll information and tax forms are used for practice.

CIOS A165 Office Procedures 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A100.
Offered Fall Semesters.
Duties and responsibilities of general office employees. Includes filing, effective mail processing, telephone communication, meeting the public, office supplies, banking, employment procedures, and grooming.

CIOS A166 Filing 1 CR
Contact Hours: 0 + 2
Special Note: Open-entry, individualized course.
Offered as Demand Warrants.
Study of filing procedures and basic records management principles. Practice in alphabetic filing rules and introduction to subject, numeric, and geographic filing systems.

CIOS A167 Proofreading 1 CR
Contact Hours: 1+0 or 0+2
Prerequisites: CIOS A100 and CIOS A160.
Special Note: May be offered as either classroom or open-entry, individualized course.
Offered as Demand Warrants.
Instruction and practice in proofreading skills. Includes basic techniques of proofreading; review of grammar, punctuation, and spelling; and proofreading for content and usage.

CIOS A168 Shorthand 3 CR
Contact Hours: 3+0 or 0+6
Special Note: May be offered as either classroom or open-entry, individualized course.
Offered as Demand Warrants.
Theory, reading and writing practice for rapid writing of office dictation or abbreviated notetaking.

CIOS A170 Calculators 1 CR
Contact Hours: 0 + 2
Special Note: Open-entry, individualized course.
Offered as Demand Warrants.
Basic operation of electronic calculators with application in solving business problems.

CIOS A185 Introduction to Programming Business Applications 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A110.
Special Note: Currently uses C as the programming language.
Offered Fall and Spring Semesters.
Business programming concepts and techniques required to reproduce business reports, process files with control break logic, program/code table handling and table look-up routines, and modularized large programs. Emphasis on structured program design, program testing and documentation for production.

CIOS A192 Seminars in Office Management and Technology 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Special Note: May be repeated for a maximum of 7 credits with a change of subtitle. Check schedules for specific offerings.
Offered as Demand Warrants.
Specialized topics in office management and technology. Seminars include business English review, letter writing, personal communications in the office, job search techniques, better office skills and services, time management, work organization, editing, proofreading, spelling, managing stress and conflict, professional development and career advancement, effective listening and memory development, and personal finance.

CIOS A201 Programming Business Applications 4 CR
Contact Hours: 4 + 0
Prerequisites: CIOS A185 and [MATH A107 or MATH A270].
Special Note: Class requires 8-hour midterm and 8-hour final scheduled by department on weekends. Specific dates announced in class.
Offered Fall and Spring Semesters.
Training and practice in writing programs for business applications using C programming language. Emphasis on structured program design, program testing and certification, and documentation for production.

CIOS A209 Multimedia Applications 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A107A or CIOS A113B or CIOS A107.
Process of manipulating graphics, text, sound and digital video files and compiling them into a multimedia presentation.

CIOS A211D Advanced Excel in Windows 1 CR
Contact Hours: 1+0 or 0+2
Prerequisites: CIOS A111D.
Registration Restrictions: Keyboarding skill of at least 30 WPM.
Special Fees.
Includes software applications in advanced areas covering concepts and techniques for construction of electronic spreadsheets and spreadsheet templates. Creations and applications of macros, styles, advanced printing, charting, graphics, databases, advanced functions, and outlining.

CIOS A215G Advanced Microsoft Word for Windows 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A115G.
Special Fees.
Continuation of CIOS A115G. Includes software application in advanced areas.

CIOS A215H Advanced WordPerfect in Windows 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A115H.
Continuation of CIOS A115H. Includes software application in advanced areas such as tables, reports, footnotes, columns, macros and merging. Requires ability to solve problems and type from rough draft copy.

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 A225H Advanced WordPerfect Topics in Windows 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A215H.
Offered only at Matanuska-Susitna College.
Designed to deal with information systems, communications technology, modern office applications, or related fields in which learning to use word processing software as a productivity tool is necessary. Students with significant microcomputer background, as well as basic WordPerfect skills, will understand and utilize the more advanced word processing features through the use of WordPerfect.

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CIOS A245 Using Hypertext Markup Language 1 CR  
Contact Hours: 1 + 0  
Prerequisites: CIOS A119.  
Grade Mode: Pass/No Pass.  
Hypertext Markup Language (HTML) is the source language for every page/document formatted for the World Wide Web (WWW). Students will learn to create and post their own Web pages using the major HTML structural elements. Sound design principles will be emphasized.

CIOS A250A Machine Transcription A 1 CR  
Contact Hours: 0 + 2  
Registration Restrictions: CIOS A100 or keyboarding skill of 30 wpm; and CIOS A160 or ENGL A111 or pass CIOS written exam; and 1 credit of any CIOS A115 course.  
Special Note: Open-entry, individualized course.  
Offered as Demand Warrants.  
Introduces machine transcription for students with no previous experience.  
Includes review of English grammar and punctuation.

CIOS A250B Machine Transcription B 1 CR  
Contact Hours: 0 + 2  
Registration Restrictions: CIOS A250A or demonstrated transcription ability.  
Special Note: Open-entry, individualized course.  
Offered as Demand Warrants.  
Emphasizes mailable copies, review of language skills and vocabulary.

CIOS A251 Medical Transcription 3 CR  
Contact Hours: 0 + 6  
Registration Restrictions: CIOS A260 or keyboarding skill of at least 40 WPM.  
Offered as Demand Warrants.  
Emphasizes accuracy and speed in transcribing medical dictation. Develops ability to produce accurate medical data through a broad knowledge of medical terms, drugs, and instruments, as well as acceptable initials and abbreviations for medical terminology. Also develops familiarity with various types of medical reports and records.

CIOS A252 Legal Transcription 1-3 CR  
Contact Hours: 1-3 + 0  
Registration Restrictions: CIOS A260 or keyboarding skill of at least 40 WPM.  
Offered as Demand Warrants.  
Machine transcription of client and court documents prepared in the law office.

CIOS A260 Keyboarding II 3 CR  
Contact Hours: 3+0 or 0+6  
Prerequisites: CIOS A100 or [CIOS A100A and CIOS A100B and CIOS A100C].  
Registration Restrictions: Or keyboarding skill of at least 30 WPM and 1 credit of any CIOS A115 course.  
Special Note: May be offered as either classroom or open-entry, individualized course.  
Offered as Demand Warrants.  
Applies keyboarding skills to special letters, tabulations, manuscripts, business forms, and other office problems. Develops speed and accuracy.

CIOS A261 Keyboarding III 3 CR  
Contact Hours: 0 + 6  
Prerequisites: CIOS A260.  
Registration Restrictions: 1 credit of any CIOS A115 course, and keyboarding skill of 45 WPM.  
Special Note: Open-entry, individualized course. Word processing software is selected by department.  
Emphasizes problem solving approach to produce high-quality office documents. Word processing program is used to create business letters, legal documents, forms, statistical tabulating, and financial reports. Includes speed and accuracy skill building.

CIOS A262 Written Business Communications 3 CR  
Contact Hours: 3 + 0  
Prerequisites: CIOS A160.  
Offered Spring Semesters.  
Applies techniques of written communications to situations that require problem solving and an understanding of human relations. Students compose and evaluate various kinds of communications that commonly pass between business associates, customers, and dealers. Includes interoffice memos, letters, and reports.

CIOS A263 Professional Secretarial Procedures 3 CR  
Contact Hours: 3 + 0  
Prerequisites: CIOS A165.  
Registration Restrictions: CIOS A160 recommended.  
Offered as Demand Warrants.  
Capstone course for secretarial training, emphasizing the office professional’s responsibilities in office communications, technology, records management, meetings, supervision, executive travel, reprographics, and employment/advancement procedures.

CIOS A264 Interpersonal Skills in Organizations 3 CR  
Contact Hours: 3 + 0  
Prerequisites: CIOS A165.  
Offered as Demand Warrants.  
Examination of theories and principles of human behavior that deal with the workplace. Emphasizes leadership theory, problems in communication, motivation, and interpersonal skills which enhance the ability to function successfully with others in an organization.

CIOS A265 Medical Transcription 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: CIOS A160 or keyboarding skill of at least 45 wpm.  
CIOS A160 recommended.  
Offered as Demand Warrants.  
Principles of law office procedures in preparation of legal documents used in civil litigation from pre-filing stage of lawsuits through pretrial procedures, trial, post-judgment enforcement, and appeal. Some attention given to distinctions in preparation of documents for criminal and federal litigation and to jurisdiction of various courts. Emphasizes stylization of legal papers, purpose, applicable civil rules, and legal vocabulary.

CIOS A266 Computer Technology Internship 1-6 CR  
Contact Hours: 0 + 6  
Prerequisites: CIOS A119.  
Registration Restrictions: Twelve credits hours of OMT courses and faculty permission.  
Offered as Demand Warrants.  
Study of Alaska rules of civil procedures in civil litigation. Also covers appellate procedures and examines differences in federal civil rules.

CIOS A267 Records Management 3 CR  
Contact Hours: 3 + 0  
Prerequisites: CIOS A272.  
Offered as Demand Warrants.  
Presents principles used in management of information and records. Covers controls related to creation, use, maintenance, protection, retrieval, and disposition of records. Includes application of microforms and forms control.

CIOS A268 Intensive CPS Review 1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: Work experience or previous course work in these areas recommended.  
Grade Mode: Pass/No Pass.  
Intensive review for those interested in preparing for academic areas covered in the certified professional secretary examination (CPS). Selected titles include behavioral science in business; business law; economics and management; accounting; office administration and communication; and office technology.

CIOS A269 Medical Transcription 3 CR  
Contact Hours: 1-3 + 0  
Registration Restrictions: CIOS A250A or keyboarding skill of at least 40 WPM.  
Offered as Demand Warrants.  
Presents principles used in management of information and records. Covers controls related to creation, use, maintenance, protection, retrieval, and disposition of records. Includes application of microforms and forms control.

CIOS A270 Law Office Procedures: Client Documents 3 CR  
Contact Hours: 3 + 0  
Prerequisites: CIOS A260.  
Registration Restrictions: CIOS A260 or keyboarding skill of at least 45 wpm.  
CIOS A160 recommended.  
Offered as Demand Warrants.  
Principles of law office organization and management and survey of Alaska procedures in real estate, corporate, family, probate, and bankruptcy law. Preparation of legal documents used in each area, emphasizing stylization, purpose, statutory requirements, and legal vocabulary.

CIOS A271 Law Office Procedures: Litigation Documents 3 CR  
Contact Hours: 3 + 0  
Prerequisites: CIOS A260.  
Registration Restrictions: CIOS A260 or keyboarding skill of at least 45 wpm.  
CIOS A160 recommended.  
Offered as Demand Warrants.  
Principles of law office procedures in preparation of legal documents used in civil litigation from pre-filing stage of lawsuits through pretrial procedures, trial, post-judgment enforcement, and appeal. Some attention given to distinctions in preparation of documents for criminal and federal litigation and to jurisdiction of various courts. Emphasizes stylization of legal papers, purpose, applicable civil rules, and legal vocabulary.

CIOS A272 Law Office Procedures: Client Documents 3 CR  
Contact Hours: 3 + 0  
Prerequisites: CIOS A272.  
Offered as Demand Warrants.  
Study of Alaska rules of civil procedures in civil litigation. Also covers appellate procedures and examines differences in federal civil rules.

CIOS A273 Alaska Rules of Civil Procedures 3 CR  
Contact Hours: 3 + 0  
Prerequisites: CIOS A272.  
Offered as Demand Warrants.  
Study of Alaska rules of civil procedures in civil litigation. Also covers appellate procedures and examines differences in federal civil rules.

CIOS A276 Individual Microcomputer Project 3 CR  
Contact Hours: 0 + 6  
Registration Restrictions: Twelve credits hours of OMT courses and faculty permission.  
Project will include learning a new microcomputer application, applying the application to significant problems, and demonstrating the results to other computer users.

CIOS A295A Computer Operations Internship 1-6 CR  
Contact Hours: 0 + 3-18  
Registration Restrictions: Department permission required.  
Special Fees.

CIOS A295B Computer Operations Internship 1-6 CR  
Contact Hours: 0 + 3-18  
Registration Restrictions: Department permission required.  
Special Fees.

CIOS A295C Computer Operations Internship 1-6 CR  
Contact Hours: 0 + 3-18  
Registration Restrictions: Department permission required.  
Special Fees.

CIOS A295D Computer Operations Internship 1-6 CR  
Contact Hours: 0 + 3-18  
Registration Restrictions: Department permission required.  
Special Fees.

CIOS A295E Computer Operations Internship 1-6 CR  
Contact Hours: 0 + 3-18  
Registration Restrictions: Department permission required.  
Special Fees.

CIOS A295F Computer Operations Internship 1-6 CR  
Contact Hours: 0 + 3-18  
Registration Restrictions: Department permission required.  
Special Fees.
CIO S A295B Computer Programming Internship  1-6 CR  Contact Hours:  0 + 3-18  Registration Restrictions: Department permission required.  Special Note: Requires 45 hours work experience for each credit. May be taken more than once for credit. Maximum of 5 internship credits may be used to meet degree requirements.  Computer program working experience in an approved position.

CIO S A295C  Office Systems Internship  1-6 CR  Contact Hours:  0 + 3-18  Registration Restrictions: 12 credit hours in CIO S and department permission required.  Special Note: Requires 45 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.  Offered as Demand Warrants.  Places students in business offices related to their educational programs and occupational objectives. Includes seminar with faculty coordinator.

CIO S A310  Analysis of Business Systems  3 CR  Contact Hours:  3 + 0  Prerequisites: CIO S A185.  Registration Restrictions: Admission to upper-division standing.  Offered Fall and Spring Semesters.  Concepts and techniques for defining user requirements for a business system. Includes study of methodologies, feasibility analysis, systems analysis, documentation preparation, and communication of requirements.

CIO S A315  Advanced Topics in Microcomputer Applications for Business  3 CR  Contact Hours:  3 + 0  Registration Restrictions: Admission to upper-division standing.  Offered as Demand Warrants.  Designed to provide the student with exposure to advanced application software topics as they relate to business problems. The specific mix of software products and topics may vary from semester to semester, but involve the use of database, spreadsheet, statistical, and graphics applications in the fields of accounting, finance, operations, marketing and management. Each student will be expected to independently present an applications software project designed and developed during the semester.

CIO S A330  Database Management Systems  3 CR  Contact Hours:  3 + 0  Prerequisites: CIO S A185.  Registration Restrictions: Admission to upper-division standing.  Offered Fall and Spring Semesters.  Covers principles of database management systems including concepts and design, methods of file organization, data structures, query languages and micro to mainframe database environments. Students will be expected to design and implement a database project during the semester.

CIO S A338  Desktop Publishing and Design  3 CR  Contact Hours:  3 + 0  Prerequisites: CIO S A107A.  Special Note: A student may not apply elective credit toward a certificate or degree from both CIO S A216A and CIO S 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 typography and design.

CIO S A340  Client-Server Programming  3 CR  Contact Hours:  3 + 0  Prerequisites: CIO S A201 and CIO S A330.  Registration Restrictions: Admission to upper-division standing  Offered as Demand Warrants.  Students will write advanced business application programs using client-server development tools and structured language to interface with DBMS software for interactive processing. Emphasis on structured program design, program testing and certification, and documentation for production.

CIO S A345  Managing Data Communication and Computer Networks  3 CR  Contact Hours:  3 + 0  Prerequisites: CIO S A201.  Registration Restrictions: Admission to upper-division standing.  Offered Fall Semesters.  Gives students a basis for understanding the rapidly changing environment of data communication including local and area networks. 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.

CIO S A360  Rapid Application Development  3 CR  Contact Hours:  3 + 0  Prerequisites: CIO S A201.  Registration Restrictions: Admission to upper-division standing.  Special Note: Currently uses Visual Basic as the programming language.  Offered Spring Semesters.  Develop applications using Rapid Application Development (RAD) and current RAD-oriented tools. Design, develop and test RAD-based systems. Topics include Joint Application Development (JAD), advanced tools, computer-aided software engineering, and prototyping methodology.

CIO S A361  Advanced C Programming & UNIX Environments  3 CR  Contact Hours:  3 + 0  Prerequisites: CIO S A201.  Registration Restrictions: Admission to upper-division standing.  Offered as Demand Warrants.  Advanced topics in C programming with an emphasis on C's interface with the UNIX system, the system call interface, and many of the functions provided in the standard C library, advanced data structures, pointers, non-standard C routines, UNIX System calls, inter-process communication, and intro. to X windows.

CIO S A365  Object Oriented Programming  3 CR  Contact Hours:  3 + 0  Prerequisites: CIO S A201.  Registration Restrictions: Admission to upper-division standing.  Offered as Demand Warrants.  Provides an understanding of the basic concepts of object-oriented systems. Some of the recent relevant developments and applications will be discussed. The C++ or Java programming language will be used as a vehicle for illustrating the concepts discussed in the course. Similarities and differences between popular object-oriented programming language will be discussed if time permits.

CIO S A376  Management Information Systems  3 CR  Contact Hours:  3 + 0  Registration Restrictions: Admission to upper-division standing.  Offered Fall and Spring Semesters.  Theory, analysis, and design of information systems for management planning and control. Includes business information systems, and how is supports decision-making, issues in managing the acquisition, development and use of computer systems, the technology of information systems, database management, and the system development process.

CIO S A380  Managerial Presentations  3 CR  Contact Hours:  3 + 0  Prerequisites: ENGL A212.  Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.  Offered Fall and Spring Semesters.  Teaches how to compose business presentations for large and small groups. Students devise aids such as video tapes, computer software, overhead transparencies, and slides. Also learn how to present themselves in social-business situations and how to dress for success. Negotiating in a multi-culturally diverse environment is also covered.

CIO S A390  CIO S Software Development Project  1-6 CR  Contact Hours:  1-6 + 0  Registration Restrictions: Department permission required.  Special Note: May be taken more than once for credit. Maximum of 9 elective credits may be used for the BBA MIS degree. Check schedule for specific titles being offered.  Given design specifications in a simulated professional environment, students complete an MIS software development project. Emphasis is on software development and implementation using either a traditional programming language to develop a program, or installing and customizing a purchased software package.

CIO S A395  Programmer/Analyst Internship  1-3 CR  Contact Hours:  0 + 3-9  Registration Restrictions: Department permission required.  Grade Mode: Pass/No Pass.  Special Note: Requires a minimum of 45 hours of work for each credit. May be taken more than once for credit. Maximum of 3 internship credits may be used to meet program elective requirements.  Offered as Demand Warrants.  Programmer/analyst work experience in an approved position.
CIOS A410  Project Management  3 CR
Contact Hours:  3 + 0
Prerequisites: CIOS A310 and CIOS A330.
Registration Restrictions: Admission to upper-division standing
Offered Fall Semesters.
Covers building the project plan, determining work flow and project duration, risk analysis and contingency plans, scheduling activities and resources, controlling work in progress, reporting to the user and upper management, and automated project management systems.

CIOS A420  Consulting and Training End Users  3 CR
Contact Hours:  3 + 0
Prerequisites: CIOS A201.
Registration Restrictions: Admission to upper-division standing
Offered as Demand Warrants.
Covers computer training needs assessment, the design, development, delivery and evaluation of computer training, and controlling a project with project management.

CIOS A421  Multimedia Authoring  3 CR
Contact Hours:  3 + 0
Prerequisites: CIOS A185.
Registration Restrictions: Admission to upper-division standing.
Offered as Demand Warrants.
Covers the use of multimedia authoring by exploring a variety of software tools widely used by professional designers. Multimedia is the use of a computer to present and combine text, graphics, audio, and video with links and tools that enable the user to navigate, interact, create, and communicate. Design theory and the integration of various multimedia into coherent products will be stressed.

CIOS A422  Web Site Design and Development  3 CR
Contact Hours:  3 + 0
Prerequisites: CIOS A201.
Registration Restrictions: Admission to upper-division standing.
Offered Fall Semesters.
Focuses on the architecture, tools, and issues involved in building state of the art web applications. Issues covered include data-driven pages and database integration, server-side markup language and extensions, CGI, security, and user/session management.

CIOS A430  Decision Support and Expert Systems  3 CR
Contact Hours:  3 + 0
Prerequisites: CIOS A345.
Registration Restrictions: Admission to upper-division standing.
Offered as Demand Warrants.
Introduces the concepts and theory of decision support, group and executive support systems, and the associated field of expert systems. The student will be exposed to a selected set of methodologies and software support systems used in DSS/ESS/ES settings.

CIOS A445  Advanced Network Management  3 CR
Contact Hours:  3 + 0
Prerequisites: CIOS A445.
Registration Restrictions: Admission to upper-division standing.
Offered Spring Semesters.
Provides practical knowledge on the installation, configuration, administration, and operation of networks in both a local area and wide area setting. 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.

CIOS A489  Systems Design and Implementation  3 CR
Contact Hours:  3 + 0
Prerequisites: CIOS A410.
Registration Restrictions: Upper-division standing.
Offered Spring Semesters.
Concepts and techniques for designing and managing the development of business systems. Course includes designing, implementing, and practicing project management while developing a business information system as a group project.

CIOS A490  MIS Seminar/Project  1-6 CR
Contact Hours:  1-6 + 0
Registration Restrictions: Admission to upper-division standing.
Special Note: May be taken more than once for a maximum of 6 elective credits.
Offered as Demand Warrants.
In a simulated professional environment students complete an MIS project, prepare a project report, and make an oral presentation.

CIOS A495  Systems Analyst/User-Support Internship  1-3 CR
Contact Hours:  0 + 3-9
Registration Restrictions: Department permission required.
Grade Mode: Pass/No Pass.
Special Note: Requires a minimum of 45 hours of work for each credit. May be taken more than once for credit. Maximum of 3 internship credits may be used to meet program elective requirements.
Offered as Demand Warrants.
Systems analyst or user-support work experience in an approved position.

CIOS A605  Information Systems for Managers  2 CR
Contact Hours:  2 + 0
Registration Restrictions: Graduate Standing.
Offered Spring Semesters.
Provides the knowledge and skills concerning information systems in a business setting to enable effective use of information technology in organizations. Topics include major industry trends, how information systems are developed and managed, systems components, and the role of information systems in organizations.

CIOS A614  Systems Theory and Analysis  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Offered as Demand Warrants.
Theory and design of complex interactive systems, system philosophy, components of general systems theory, system design, principles, and methods. Survey of application of systems concept to business and economics.

CIOS A621  Seminar in Management Information Systems  3 CR
Contact Hours:  3 + 0
Prerequisites: CIOS A605.
Registration Restrictions: Graduate Standing.
Offered as Demand Warrants.
Selected advanced topics in management information with emphasis on the role of manager, the role of information in the decision making process, establishing a uniform data base, design of information systems, Global IS, and telecommunications and networking issues.

TECHNOLOGY - CNT

http://www.uaa.alaska.edu/ctc/
Offered through the Community and Technical College Gordon Hartlieb Building (GHB), Room 106, 786-6465

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<th>Course Code</th>
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<tbody>
<tr>
<td>CNT A164</td>
<td>Network Cabling</td>
<td>1 CR</td>
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<td>Contact Hours: 1 + .5 Special Fees.</td>
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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.

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<tbody>
<tr>
<td>CNT A165</td>
<td>Customer Service Fundamentals</td>
<td>1 CR</td>
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<td>Contact Hours: 1 + 0 Special Fees.</td>
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Introduces basic customer service principles, including relationships, perceptions, telephone techniques, quality, ethics, record keeping, interpersonal relationships, and teamwork.

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<tr>
<td>CNT A170</td>
<td>CISCO Academy Network Fundamentals</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 2 + 3 Special Fees.</td>
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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.

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<tr>
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<tbody>
<tr>
<td>CNT A180</td>
<td>PC Interfacing</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 2 + 3 Prerequisites: CNT A160 and CNT A161 and CNT A162.</td>
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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.

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<tbody>
<tr>
<td>CNT A181</td>
<td>PC Auxiliary Storage</td>
<td>1 CR</td>
</tr>
<tr>
<td>Contact Hours: 1 + .5 Prerequisites: CNT A160 and CNT A161 and CNT A162.</td>
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Introduces PC storage devices and interfaces, including, but not limited to, magnetic storage, optical storage, disk drives, drive installation, configuration, and file systems.

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<tbody>
<tr>
<td>CNT A182</td>
<td>PC Peripheral Devices</td>
<td>1 CR</td>
</tr>
<tr>
<td>Contact Hours: 1 + .5 Prerequisites: CNT A160 and CNT A161 and CNT A162.</td>
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Introduces ancillary PC hardware, including keyboards, printers, pointing devices, video displays, video capture, scanners, and digital cameras.

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<tbody>
<tr>
<td>CNT A183</td>
<td>Local Area Networks</td>
<td>2 CR</td>
</tr>
<tr>
<td>Contact Hours: 1.5 + 2 Prerequisites: CNT A160 and CNT A162 and CNT A170.</td>
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</table>

Presents the fundamentals of Local Area Networking, including topologies, protocols, computer and delivery hardware, Ethernet, network operating systems, LAN assessment, and other related software.

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<tbody>
<tr>
<td>CNT A184</td>
<td>Introduction to TCP/IP</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours: 1 + 1 Prerequisites: CNT A183.</td>
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</table>

Presents transmission control protocol/internet protocol, including structure, addressing, data transfer, software, applications, and troubleshooting.

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<tbody>
<tr>
<td>CNT A190</td>
<td>Selected Topics in MOUS Certifications</td>
<td>1 CR</td>
</tr>
<tr>
<td>Contact Hours: .5 + 1 Prerequisites: CNT A101. Special Note: May be repeated for credit with a change of subtitle.</td>
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</table>

Provides advanced Microsoft training leading to MOUS certifications in selected software topics from the Office 2000 suite.

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</thead>
<tbody>
<tr>
<td>CNT A210</td>
<td>PC Technician Fundamentals</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0 Prerequisites: CIOS 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.</td>
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<tbody>
<tr>
<td>CNT A212</td>
<td>Network Technician Fundamentals</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 1 + 2 Prerequisites: CNT A210.</td>
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</tbody>
</table>

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.

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<tr>
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<tbody>
<tr>
<td>CNT A240</td>
<td>Windows 2000 System Essentials</td>
<td>2 CR</td>
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<tr>
<td>Contact Hours: 1 + 2 Prerequisites: CNT A210. Special Fees.</td>
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Provides an introduction to networking concepts, features, and capabilities and their implementation within the Windows 2000 environment.

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<tbody>
<tr>
<td>CNT A241</td>
<td>Administering and Supporting Windows 2000 Professional and Server</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 2 + 2 Prerequisites: CNT A240. 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.</td>
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</thead>
<tbody>
<tr>
<td>CNT A242</td>
<td>Windows 2000 Network Infrastructure Administration</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 2 + 2 Prerequisites: CNT A241. 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.</td>
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<tbody>
<tr>
<td>CNT A243</td>
<td>Windows 2000 Directory Services Administration</td>
<td>3 CR</td>
</tr>
<tr>
<td>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.</td>
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<tbody>
<tr>
<td>CNT A244</td>
<td>Designing Secure Windows 2000 Networks</td>
<td>3 CR</td>
</tr>
<tr>
<td>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.</td>
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<tbody>
<tr>
<td>CNT A245</td>
<td>Windows 2000 Directory Services Design</td>
<td>2 CR</td>
</tr>
<tr>
<td>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.</td>
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<tbody>
<tr>
<td>CNT A246</td>
<td>Windows 2000 Network Infrastructure Design</td>
<td>2 CR</td>
</tr>
<tr>
<td>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 Windows 2000 Network Infrastructure.</td>
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<tbody>
<tr>
<td>CNT A260</td>
<td>Wide Area Networking</td>
<td>2 CR</td>
</tr>
<tr>
<td>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.</td>
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<tbody>
<tr>
<td>CNT A261</td>
<td>CISCO Router Fundamentals</td>
<td>3 CR</td>
</tr>
<tr>
<td>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.</td>
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<tbody>
<tr>
<td>CNT A262</td>
<td>Computer Technical Support</td>
<td>2 CR</td>
</tr>
<tr>
<td>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.</td>
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<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>CNT A270</td>
<td>CISCO Academy LAN Management</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 2 + 3 Prerequisites: CNT A261. 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.</td>
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</tbody>
</table>
**COURSE DESCRIPTIONS**

**COMMUNICATION - COMM**

http://www.uaa.alaska.edu/comm/

**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: GER Oral Communications Requirement. Special Fees.
- Offered Fall and Spring Semesters.

**COMM A235 Small Group Communication** 3 CR
Contact Hours: 3 + 0
- Course Attributes: GER Oral Communications Requirement. Special Fees.
- Offered Fall and Spring Semesters.

**COMM A241 Public Speaking** 3 CR
Contact Hours: 3 + 0
- Course Attributes: GER Oral Communications Requirement. Special Fees.
- Offered Fall and Spring Semesters.

**COMM A260 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.

**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
- Registration Restrictions: Faculty Permission; and working knowledge of CNT.
- Special Note: May be repeated once for credit.

**COMM A330 Selected Topics in Communication** 3 CR
Contact Hours: 3 + 0
- Special Note: May be repeated once for credit.

**COMM A360 Forensics** 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 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.

**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.

**CNT A271 CISCO Academy WAN Management** 3 CR
Contact Hours: 2 + 3
Prerequisites: CNT A270.
- Covers wide area networking services, design, and management. Topics include area network technology, devices, link options, frame encapsulation formats, design, 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.

**CNT A285 Class Environmental Operation** 3 CR
Contact Hours: 3 + 0
- Covers major communication theories, principles, and research paradigms in interpersonal, group, organizational, and public contexts.

**CNT A290 Selected Topics in Computer Science** 3 CR
Contact Hours: 3 + 0
- Prerequisites: CNT A270.
- 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.
COUNSELING - COUN

http://www.uaa.alaska.edu/advising/ 

Undergraduate courses offered through the Advising and Counseling Center Business Education Building (BEB), Room 115, 786-4500 

Graduate courses offered through the College of Health, Education & Social Welfare 

Classroom Building K (K), Room 217, 786-4401

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 

Prerequisites: COUN A610. 

Registration Restrictions: Graduate Standing. 

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. 

Emphasizes development and mastery of attending, exploring, and problem solving counseling skills with focus on the helping relationship. Students will 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 

Special Fees. 

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 

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 I 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 A637 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. 

COMPUTER SCIENCE - CS

http://www.math.uaa.alaska.edu/ 

Offered through the College of Arts and Sciences 

College of Arts & Sciences Building (CAS), Room 154, 786-1742 

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. 

Chapter 11  Page 322  University of Alaska Anchorage 2002-2003 Course Catalog  

www.uaa.alaska.edu
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 C or higher or Math Placement Test is required.
Special Note: No background in computer science is assumed or expected. The course is intended for students with limited experience with computers. 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.

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 A106 BASIC Programming 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Two years of high school algebra or equivalent with a grade of C or better.
Practice and use of the algorithmic approach to logical reasoning using graphic display of algorithms in flowchart form and coding instructions in the BASIC language.

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: CS A107 or CS A201 or CS A105.
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 non deterministic 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
Registration Restrictions: Sophomore standing with minimum of 6 credits in CS courses and faculty permission.
Special Note: May be taken more than once, but only 3 credits of the upper division credit requirement for the baccalaureate degree in CS may be met with CS A395. Professional work experience in appropriate areas of computing. This course is 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.
COURSE DESCRIPTIONS

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, intermediate 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 A641 Advanced Computer Architecture 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required.

In-depth look at the architecture of computing machinery. Topics include instruction set design and evaluation, processor implementation techniques, pipelining, vector processors, memory systems, and I/O systems.

CS A645 Distributed Computing 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required.

Overview of the architecture of parallel and distributed systems. The course examines the development and application of software for parallel and distributed environments, including algorithms, programming languages, and software development tools.

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 A680 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

http://www.engr.uaa.alaska.edu/soe/

Offered through the School of Engineering Engineering Building (ENGR), Room 201, 786-1900

CS 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.

CS 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.

CS 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.

Creative Writing & Literary Arts - CWLA

http://www.uaa.alaska.edu/cwla/

Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 378, 786-4330

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 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 A372 Undergraduate Writer's Workshop: 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.
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.
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 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 A500B 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 editor of Alaska Quarterly Review. Students assigned to AQR will learn how to produce, manage and edit a nationally recognized literary journal.

CWLA A500C 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 features editor of the “Anchorage Daily News.” Students will learn how to report, edit, research, and write for the “Anchorage Daily News.”

CWLA A502 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.
Practice in writing drama for stage and screen with close analysis of each student’s work.

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 + 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 as editors of Inklings, the campus literary magazine. They will supervise all aspects of the magazine and make editorial decisions concerning the contents of the magazine. They will also mentor undergraduates on the staff and/or undergraduates who are contributors to the magazine, as appropriate.

CWLA A652 Graduate Writer's Workshop: Poetry 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.
**COURSE DESCRIPTIONS**

**CWLA A672  Graduate Writer’s Workshop: Prose Nonfiction**  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission required and graduate standing.  
Special Fees.  
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**  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission required and graduate standing.  
Special Fees.  
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**  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Special Fees.  
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**  
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**  
Contact Hours: 0 + 3-18  
Registration Restrictions: Faculty permission.  
Special Note: May be repeated for credit.  
A book-length collection of the graduate student’s creative work introduced by close analysis of each student’s work. Emphasis will be on the development of the thesis evaluation.

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**DENTAL ASSISTING - DA**

**Offered through the Community & Technical College Allied Health Sciences Building (AHS), Room 158, 786-6929**

**DA A110  Dental Radiography**  
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**  
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**  
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.

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**DENTAL HYGIENE - DH**

**Offered through the Community & Technical College Allied Health Sciences Building (AHS), Room 160, 786-6929**

**DH A111  Periodontics I**  
Contact Hours: 2 + 0  
Special Fees.  
Introduction to embryology and histology of the periodontal tissues. Includes discussion on dental accretions and cartilagene.

**DH A112  Techniques I for Dental Hygienists**  
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 for 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.  
Provides opportunity for student to achieve clinical skill competency with individuals presenting themselves as periodontally healthy or with signs of gingivitis.

DH A195B  Community-Based Practicum I  1-6 CR  
Contact Hours:  0 + 3-18  
Prerequisites: DH A195A.  
Registration Restrictions: Current CPR certification, department permission, and current immunizations for Hepatitis B, Rubella, Rubeola, Tetanus/Diphtheria, and proof of a current negative PPD.  
Grade Mode: Pass/No Pass.  
Provides additional practice of clinical skills and treatment procedures for patients exhibiting periodontal health to early periodontal disease in a community-based clinical facility under the direct supervision of an Alaskan licensed dentist and indirect supervision of a UAA faculty.

DH A211  Current Periodontal Therapies  2 CR  
Contact Hours:  2 + 0  
Special Fees.  
Develop 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 CPR certification, department permission, and immunizations.  
Corequisite: DH A292B.  
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 CPR 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 A295C  Community-Based Practicum II  1-6 CR  
Contact Hours:  0 + 3-18  
Prerequisites: DH A295A.  
Registration Restrictions: Current CPR certification, department permission, and immunizations.  
Corequisite: DH A292B.  
Special Fees.  
Provides additional practice of clinical skills and treatment procedures for patients exhibiting early to advanced periodontal disease in community-based clinical facilities under the direct supervision of an Alaskan licensed dentist and indirect supervision of a UAA faculty.

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.  
Examines 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.
COURSE DESCRIPTIONS

DN A245 Nutrition for the Second Fifty Years 3 CR
Contact Hours: 3 + 0
Special Fees.
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.

DN A240 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.

DN 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 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 Center (CUDY), Room 126, 786-4728

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 A150 Introduction to Diet Therapy 1 CR
Contact Hours: 1 + 0
Prerequisites: CA A102 with minimum grade of C.

Examines means to meet nutritional needs, apply principles of diet modification for specific disease states, and review nutrition information sources.

DN A195 Nutritional Care Practicum 1 CR
Contact Hours: .5 + 3
Prerequisites: DN A150 with minimum grade of B.
Grade Mode: Pass/No Pass.

Provides supervised field experience in clinical dietary setting designed for students seeking dietary manager certificate. Requires minimum of 45 hours on-site and 6 contact hours on campus.

DN A203 Normal Nutrition 3 CR
Contact Hours: 3 + 0
Prerequisites: (BIOL A112 or concurrent enrollment) or (CHEM A104 or concurrent enrollment).

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 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

http://webserver.cts.uaa.alaska.edu/theatre/
Offered through the College of Arts and Sciences
Arts Building (ARTS), Room 332, 786-1792

DNCE A061 Dance for Musical Theatre 2 CR
Contact Hours: 1 + 2
Prerequisites: HS A379.
Special Note: May be repeated three times for credit.

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.

Begining 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.

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 2 CR
Contact Hours: 2 + 0
Crosslisted with: THR A124.

Special Fees.

Basic stage dance/performance techniques. Styles of dance from early 1900’s to the present will be covered.
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 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, flapp, ball-change, front and back flaps.

DNCE A170  
Dance Appreciation  
3 CR  
Contact Hours: 3 + 0  
Course Attributes: GER Fine Arts Requirement.  
Special Fees.  
Develops an appreciation of dance for observers and participants through course readings, lectures, videos, live performances, writing exercises, movement sessions, and facilitated discussion sessions. Explores dance in social and cultural contexts as an aesthetic experience, and as a kinespheric experience. Develops critical thinking and communication skills useful throughout a liberal arts curriculum.

DNCE A205  
Fundamentals of Ballet II  
2 CR  
Contact Hours: 1 + 2  
Prerequisites: DNCE 101 with minimum grade of C.  
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 A234  
Fundamentals of Jazz II  
2 CR  
Contact Hours: 1 + 2  
Prerequisites: DNCE A131 with minimum grade of C.  
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 A253  
Beginning Tap II  
1 CR  
Contact Hours: 5 + 1  
Prerequisites: DNCE A151 with minimum grade of C.  
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 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 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].
Explores five approaches to contemporary dance scholarship: kinesthetic,
ethnocentric, 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 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.

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.
COURSE DESCRIPTIONS

ECD A216 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 A217 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 A218 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 A219 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 A220 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 A221 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.
Present 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 A222 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 A223 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.
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 A224 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 A225 Professionalism and Program Management 1 CR
Contact Hours: 1 + 0
Offered only at Kenai Peninsula College.
Stresses 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.
Stresses activities to help teachers understand purposes of screening young children and use of screening procedures.

ECD A227 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 A245  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.
- 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 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.
- Special Fees.
- 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.
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<tr>
<th>COURSE DESCRIPTIONS</th>
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<tbody>
<tr>
<td><strong>ECONOMICS - ECON</strong></td>
</tr>
<tr>
<td><a href="http://www.cbpp.alaska.edu">http://www.cbpp.alaska.edu</a></td>
</tr>
<tr>
<td>Offered through the College of Business &amp; Public Policy</td>
</tr>
<tr>
<td>Business Education Building (BEB), Room 309, 786-4100</td>
</tr>
<tr>
<td>Each student taking any ACCT, BA, CIOS, ECON, 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 extended sites.</td>
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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td><strong>ECON A201</strong></td>
<td>Principles of Macroeconomics</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Course Attributes: GER Social Sciences Requirement. Offered Fall and Spring Semesters.</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>ECON A202</strong></td>
<td>Principles of Microeconomics</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: ECON A201. Offered Fall and Spring Semesters.</td>
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<tr>
<td>Theory of prices and markets; industrial organization; public policy; income distribution; and contemporary problems of labor and business.</td>
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<tr>
<td><strong>ECON A210</strong></td>
<td>Environmental Economics and Policy</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: MATH A105. Registration Restrictions: If prerequisite is not satisfied, instructor permission is required. Crosslisted with: ENVI A210.</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>ECON A300</strong></td>
<td>The Economy of Alaska</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>ECON A321</strong></td>
<td>Intermediate Microeconomics</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: ECON A201 and ECON A202 and [MATH A200 or MATH A272]. 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.</td>
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<tr>
<td><strong>ECON A324</strong></td>
<td>Intermediate Macroeconomics</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: ECON A201 and ECON A202 and ECON A350. Offered Spring Semesters.</td>
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<tr>
<td>Concepts and measurement of national income; analysis of aggregate demand and supply and their relationship to prices, employment, and growth.</td>
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<tr>
<td><strong>ECON A337</strong></td>
<td>Economic Development</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: ECON A201 and ECON A202. Offered as Demand Warrants. 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.</td>
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<tr>
<td><strong>ECON A350</strong></td>
<td>Money and Banking</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: ECON A201 and ECON A202. 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.</td>
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<tr>
<td><strong>ECON A351</strong></td>
<td>Public Finance</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: ECON A201 and ECON A202. Government taxation, borrowing, and spending; economic effects of taxation, and influence of fiscal policy on economic activity.</td>
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<tr>
<td><strong>ECON A359</strong></td>
<td>Industrial Organization and Public Policy</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>ECON A360</strong></td>
<td>Modern Economic History</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>ECON A412</strong></td>
<td>Econometrics</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 2</td>
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<tr>
<td>Prerequisites: ECON A201 and ECON A202 and BA A273. 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.</td>
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<tr>
<td><strong>ECON A415</strong></td>
<td>Urban and Regional Economics</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>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 economies, housing and land use issues, and urban and regional economic policy.</td>
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<tr>
<td><strong>ECON A421</strong></td>
<td>Labor Economics</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>ECON A425</strong></td>
<td>History of Economic Thought</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>ECON A429</strong></td>
<td>Business Forecasting</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 3</td>
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<tr>
<td>Prerequisites: ECON A201 and ECON A202 and CIOS A110 and BA A273. 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.</td>
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<tr>
<td><strong>ECON A435</strong></td>
<td>Economics of Resources</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>ECON A454</strong></td>
<td>Economics Internship</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>ECON A463</strong></td>
<td>International Economics</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: ECON A201 and ECON A202. 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.</td>
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University of Alaska Anchorage 2002-2003 Course Catalog  www.uaa.alaska.edu  Chapter 11 Page 333
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.
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.
Selected economics topics of special relevance to specific subjects in school curriculum, kindergarten through senior high school.

EDU 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.

EDU 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.

EDU 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.

EDU 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 EDU A200A, ED A200B, and ED A200C.

EDU 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.

EDU 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.

EDU 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.

EDU A201 Introduction to Education 2 CR
Contact Hours: 2 + 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.

EDU A212 Parenting: More than Discipline 3 CR
Contact Hours: 3 + 0
Crosslisted with: PSY A120.
Introduction to parenting and how it differs from discipline. Discusses three parenting styles. Emphasizes nurturing, communicating, setting limits, and making maturity demands.

EDU A212A Kids Are People Facilitator Training 2 CR
Contact Hours: 2 + 0
Hands-on experience in group dynamics. The practical logistics and politics of starting support groups will be studied and discussed, including: identification of “At risk youth”; necessity for confidentiality; child abuse laws and the reporting procedure for suspected child abuse; permission procedures and forms necessary to start a group; referral procedures when a child needs more intense therapy. Students will co-facilitate a 9-week group session.

EDU 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.
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.
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.
ED A304 Teaching in Elementary Schools 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A336.
Registration Restrictions: All General Education Requirements and admission to the School of Education.
Special Fees.
ED A305 Teaching of Elementary Mathematics 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A336.
ED A306 Teaching Science in Elementary Schools 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Departmental Approval Required; Admission to the School of Education.
ED A307 Teaching of Elementary Science 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Departmental Approval Required; Admission to the School of Education.
ED A308 Teaching of Elementary Social Studies 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Departmental Approval Required; Admission to the School of Education.
ED A309 Teaching of Elementary Social Studies 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Departmental Approval Required; Admission to the School of Education.
ED A310 Teaching of Elementary Social Studies 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Departmental Approval Required; Admission to the School of Education.
ED A311 Teaching of Elementary Social Studies 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Departmental Approval Required; Admission to the School of Education.
ED A312 Teaching of Elementary Social Studies 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Departmental Approval Required; Admission to the School of Education.
ED A313 Teaching of Elementary Social Studies 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Departmental Approval Required; Admission to the School of Education.
ED A314 Teaching of Elementary Social Studies 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Departmental Approval Required; Admission to the School of Education.
ED A315 Teaching of Elementary Social Studies 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Departmental Approval Required; Admission to the School of Education.
ED A421  Development of Reading in Elementary School  6 CR
Contact Hours: 6 + 0  
Prerequisites: EDSE A336.  
Registration Restrictions: All General Education Requirements; 12 credits of methods courses and admission to the school of education.  
Special Fees:  
A comprehensive study of the reading process and the development of reading proficiency in the elementary school. Includes focus on the foundations of reading and the materials and methodologies used in elementary school programs. Field work required.

ED A422  Teaching Language Arts and Literature  6 CR
Contact Hours: 6 + 0  
Prerequisites: EDSE A336.  
Registration Restrictions: All General Education Requirements; 12 credits of methods courses and admission to the school of education.  
Special Fees:  
A critical study of the theoretical and practical aspects of teaching, listening, speaking, and writing through children’s literature. Emphasis is directed toward the integration of language instruction in the elementary school. Field work required.

ED A423  Philosophical Foundations of Education  3 CR
Contact Hours: 3 + 0  
Prerequisites: ED A201.  
Registration Restrictions: Admission to a Teacher Education program and completion of the General Education Requirements.  
Philosophical assumptions underlying the American concept of schooling, including an overview of the historical antecedents of modern educational philosophy. Explores how philosophy guides choices about schooling and emphasizes the importance of developing coherent personal educational philosophy.

ED A424  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.  
Offered Fall Semesters.  
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 A425  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.  
Offered Fall Semesters.  
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 A426  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.  
Offered Fall Semesters.  
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 A427  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.  
Offered Fall Semesters.  

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.  
Offered Fall Semesters.  
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.  
Offered Spring Semesters.  
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.  
Offered Spring Semesters.  
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.  
Offered Spring Semesters.  
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 A452E  Student Teaching-Elementary  12 CR
Contact Hours: 3 + 36  
Registration Restrictions: See requirements for admission to student teaching.  
Grade Mode: Pass/No Pass.  
Special Fees:  
Elementary student teaching consists of a 16 week semester of full days in the classroom of the elementary schools approved by the school of education. Experiences include: observations; teaming with host teacher and/or other team members; planning and conducting individualized instruction; organizing plans for grouping to meet varying needs of children; daily critique of performance by host teacher; weekly supervision and post-conference with university supervisor; and weekly seminar meetings of all student teachers with university faculty members. The classroom experience in the elementary school is designed to progress through the full range of teaching and classroom management responsibilities of an elementary teacher in a typical school situation.

ED A452S  Student Teaching - Secondary  12 CR
Contact Hours: 3 + 36  
Registration Restrictions: See requirements for admission to student teaching.  
Grade Mode: Pass/No Pass.  
Special Fees:  
Supervised teaching in secondary schools approved by the School of Education. The School of Education may limit registration, determine assignments, prescribe the number of teaching hours required, and cancel the registration of students doing unsatisfactory work.
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 A471  Elementary Music Methods 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A336.
Registration Restrictions: All General Education Requirements and admission to the School of Education. Crosslisted with: MUS A471. Principles, procedures, and materials for teaching music to children at the elementary level.

ED A472  Secondary Music Methods 3 CR
Contact Hours: 3 + 0
Prerequisites: ED A321 and MUS A232.
Registration Restrictions: Admission to teacher certification, 100 semester credits. Crosslisted with: MUS A472. Methods and problems of teaching music in junior and senior high schools with emphasis on the general music program.

ED A478  Issues in AK Native Ed, K-12 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Departmental approval required: Admission to the Post-baccalaureate Teacher Education Program. Special Note: Offered Summer Semester.
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. Special Fees. Field experiences in public school classrooms. Includes elementary, secondary, and physical education programs. Students gain practical experience in classroom settings. Assignments must be arranged through the School of Education.

ED A495A  Internship I 3 CR
Contact Hours: 0 + 9
Prerequisites: ED A300 and ED A303 and EDSE A482.
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.
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 A601  Styles: Teaching and Learning 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Graduate Standing. Special Note: Class will meet two Saturdays; dates determined at first class meeting. The four Jungian personality types related to teaching and learning. Presents basic aspects of the Jungian styles of personality and communication related to the perception, gathering, processing, and presentation of information. Participants will identify their own preferred styles, learn effective uses of their style, and learn to flex into the styles of others for more effective communication. Lesson design and teaching strategies for each of the four styles will be developed.

ED A602  Studies in Outdoor Education 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Graduate standing in education. Special Note: May be repeated for credit. No more than 3 credits may apply to the degree program. Research of selected topics in elementary outdoor education. Participants will be involved in the development of instructional materials and resources based on outdoor learning experiences that are suited to their particular needs, interest and grade level.

ED A603  Developing Literacy: Early Childhood Through Grade Twelve 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Current elementary or secondary teaching certificate. Admission to reading endorsement certificate program within the School of Education. 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
Registration Restrictions: Certified teacher. Reading endorsement participant, graduate student School of Education. The teaching and assessment of reading, utilizing effective research-based practices for a broad range of students in Kindergarten through grade twelve teachers. 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 A606  Instruction and Assessment in Reading I 3 CR
Contact Hours: 2 + 3
Registration Restrictions: Certified teacher, reading endorsement participant, graduate student School of Education. The teaching and assessment of reading, utilizing effective research-based practices for a broad range of students in Kindergarten through grade twelve teachers. 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 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 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.
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 A625 Teachers and Computers: Selected Topics 1-3 CR
Contact Hours: 1-3 + 0
Special Fees.
Special Note: May be repeated for credit with a change of subtitle. No more than 3 credits may be applied to a degree program.
Computer applications and computer assisted instructional planning for teachers. Students will be introduced to special topics related to the use of computers in the classroom. Project required.

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, centered 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.
Special Fees.
Techniques of education research; selection of topics and problems; data gathering; interpretation and preparation of reports.

ED A628 Responsibility Models/Cooperative Discipline 3 CR
Contact Hours: 3 + 0
A comprehensive discipline approach incorporating preventive, corrective, and supportive dimensions of discipline. Models of discipline designed to develop self-responsibility and self-control will be explored including cooperative discipline. Classroom teachers will gain specific techniques to help teachers deal more effectively with discipline. An action plan will be emphasized.

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 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
Prerequisites: ED A629 and ED A652.
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 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 Theories: Development and Learning 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Examination of brain research and theories relevant to education. Focuses on bringing educators up-to-date on brain research and to provide the background information necessary to evaluate educational theories developed from brain research. Curriculum models and classroom activities will be developed and evaluated.

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 using 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 A661C Internship: Counseling 1-12 CR
Contact Hours: 1-12 + 0
Grade Mode: Pass/No Pass.
Post-master’s or post-practica field work in a counseling setting. Provides an opportunity for working counselors or graduate counseling students that have completed a minimum of two successful practica to acquire the additional supervised hours that are required for national certification.

ED A662 Teaching in the Middle School 3 CR
Contact Hours: 3 + 0
Prerequisites: ED A667 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 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 A681  Neurological Foundations: Development and Learning  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Corequisite: ED A682, ED A683, ED A687 and EDSE A671.
Examination of neurological research relevant to educational perspectives of emotional, physical, social development and learning. Emphasis on evaluation of educational psychology theories and application to instructional practices and curriculum development.

ED A682  Curriculum Development Processes  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Admission to the Master of Arts in Teaching Secondary Education program and graduate standing.
Corequisite: ED A681, ED A683, ED A687 and EDSE A671.
Focus on the theories, models, elements, and resources for designing secondary curriculum. Emphasis will be on each student’s applying knowledge from research and examples of exemplary practice to specific content areas, instructional goals, or practical settings.

ED A683  Methods for Secondary Education  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Admission to the Master of Arts in Teaching Secondary Education program and graduate standing.
Corequisite: ED A681, ED A682, ED A687 and EDSE A671.
Instructional strategies appropriate to teaching on the secondary level with an emphasis on how students learn. Course topics include classroom management, lesson planning, evaluation, and classroom research.

ED A687  Advanced Practicum: Education  1-12 CR
Contact Hours:  0 + 3-36
Registration Restrictions: Faculty permission, or concurrent methods enrollment and graduate standing.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for credit.
Supervised field experience with students in educational facilities. Students will be assigned work with children in the area of specialization. Placement is arranged by the supervisor and the number of hours in assigned locations will vary according to the number of credits earned.

ED A688  Student Teaching in Secondary Education  12 CR
Contact Hours:  3 + 18
Grade Mode: Pass/No Pass.
Special Fees.
Student teaching consists of a 16 week semester of full days in the classroom of the secondary school approved by the School of Education. Experiences include: observations, teaching with host teacher and/or other team members; planning and conducting individualized instruction; organizing plans for grouping to meet varying needs of students; daily critique of performance by host teacher; weekly supervision and post-conference with university supervisor; and weekly seminar meetings of all student teachers with university faculty members. The classroom experience in the school is designed to press through the full range of teaching and classroom management responsibilities of a secondary teacher in a typical school situation.

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 firsthand 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 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

http://www.uaa.alaska.edu/ed/adult/
Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 217, 786-4401

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. Examines 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.
Examines 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  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.
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 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 & DRAFTING - EDD**

*Offered through Kenai Peninsula College*

**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 Health, Education & Social Welfare Classroom Building K (K), Room 217, 786-4401*

**EDL A637**  Educational Leadership and Organizational Behavior  3 CR  
Contact Hours:  3 + 0  
Campus Restriction: Campus code is null student. 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 programs. 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  
Campus Restriction: Campus code is null student. 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) or (EDL A643 and concurrent enrollment) or (EDL A642 and 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.
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 intern for structured reflection and added input.

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, human resource management, and district level finance and facilities management. 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.

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 A338**  Human Motor Development and Learning  
Contact Hours: 3 + 0  
Prerequisites: PSY A111.  
- Examination of theoretical and applied psychological parameters as they pertain to motor skill acquisition and human motor performance.

**EDPE A339**  Wellness Education for Students with Disabilities  
Contact Hours: 3 + 0  
Registration Restrictions: All 100- and 200-level required EDPE courses.  
- Concurrent enrollment in required 300-level EDPE courses.  
- Health and physical education issues relative to school-aged children and youth who experience disability. Select content areas include: federal legislation, including categories of disability identified in the individuals with disabilities education act (idea); state of the art approaches to programming, planning and assessment in health and physical education for students who experience disability. Strategies; family involvement and the role of health and physical educators as teachers-researchers and advocates for students with disabilities.

**EDPE A345**  Introduction to Athletic Training  
Contact Hours: 2 + 3  
Prerequisites: BIOL A114.  
- Assist coaches, fitness and aerobic instructors and recreationalists in providing proper injury prevention and management of athletic injuries. Stress prevention of injuries through anaerobic, and aerobic training programs. Gain a better understanding of the responsibilities and responsibilities for the care and management of injuries sustained during exercise or sports competition. The most current and proven principles and application of athletic training will be covered in the text by Klafs and Arnheim.

**EDPE A350**  Socio-Psychological Bases of Physical Education and Sport and Recreation  
Contact Hours: 3 + 0  
Prerequisites: PSY A111.  
- An examination of theoretical and applied psychological and sociological parameters as they pertain to sports participation and physical activity.

**EDPE A360**  Fieldwork in Health, Outdoor, and Physical Education  
Contact Hours: 0 + 9-18  
Registration Restrictions: Admission to the Special Education Program.  
- Practical experience in elementary and secondary classrooms in local public schools. Individual schedules are arranged for time in the schools. Students gain practical experience in implementing instructional strategies, classroom management, and school procedures.

**EDPE A431**  Methods of Teaching Physical Education  
Contact Hours: 3 + 0  
Registration Restrictions: Admittance into the health, outdoor, and physical education program. Successful completion of PPST.  
Corequisite: EDPE A431.  
- Practical field experience in elementary and secondary classrooms in local public schools. Individual schedules are arranged for time in the schools. Students gain practical experience in implementing instructional strategies, classroom management, and school procedures.

**EDSE A312**  Human Development and Learning  
Contact Hours: 3 + 0  
Prerequisites: PSY A111.  
- Emphasizes the cognitive, physical, emotional, and communicative development of children and youth. Includes discussion of the impact of disabilities on learning and requires for learning and instruction.

**EDSE A336**  Classroom Management and Collaboration  
Contact Hours: 3 + 0  
Prerequisites: ED A201 and (ED A321 or concurrent enrollment) and (ED A320 or concurrent enrollment).  
- Theories of classroom management as they pertain to early childhood, elementary, middle school/transcendent, 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  
Contact Hours: 3 + 0  
Prerequisites: ED A301 and EDSE A482 and (ED A425 or concurrent enrollment).  
- Philosophy, curriculum development, methods for facilitating learning and behavior modification, measurement and evaluation, observations and teaching in elementary and secondary school physical education.

**EDSE A412**  Curriculum and Strategies I: Low Incidence  
Contact Hours: 3 + 0  
Prerequisites: PSY A245.  
- 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.

**EDSE A437**  Methods of Teaching School Health Education  
Contact Hours: 3 + 0  
Special Fees.  
- Examines the teacher’s role in comprehensive school health education (CSHE). Topics include an introduction to the health status of children and youth, at-risk students, objectives from healthy people 2000, and components of teaching comprehensive school health education.

**EDPE A443**  Contemporary Issues in Health, Outdoor, and Physical Education  
Contact Hours: 1-3 CR  
Registration Restrictions: Junior- or senior-level health, outdoor, and physical education major; or working health, outdoor, or physical education professional; or baccalaureate degree.  
- Topical issues related to a specific area in health, outdoor, or physical education. Specific topics to be announced.

**EDPE A452**  Student Teaching in Physical Education  
Contact Hours: 1 + 33  
Registration Restrictions: Admittance into the health, outdoor, and physical education program; successful completion of all aspects of the PPST; permission of advisor.  
Grade Mode: Pass/No Pass.  
- Special Fees.  
Involves supervised teaching of physical education in schools approved by the health, outdoor, and physical education program. Requires student teaching for the entire school day for nine weeks at an elementary school and nine weeks at a secondary or middle school. In addition to onsite evaluations, weekly seminar meetings of all student teachers with university faculty members are required.

**EDPE A495**  Outdoor Education Leadership Practicum  
Contact Hours: 0 + 9-18  
Prerequisites: EDPE A170 and EDPE A240 or [EDPE A325 and EDPE A162] or EDPE A262.  
Special Fees.  
- Supervised field experience in outdoor education leadership. Program of study will be developed jointly with the student and performance will be evaluated by the field preceptor and the supervising faculty. Regular practicum meeting with the faculty supervisor is required.

**EDUCATION-SPECIAL EDUCATION - EDSE**

Offered through the College of Health, Education & Social Welfare Classroom Building K (K), Room 217, 786-4401

**EDSE A312**  Human Development and Learning  
Contact Hours: 3 + 0  
Prerequisites: PSY A111.  
- Emphasizes the cognitive, physical, emotional, and communicative development of children and youth. Includes discussion of the impact of disabilities on learning and requires for learning and instruction.

**EDSE A336**  Classroom Management and Collaboration  
Contact Hours: 3 + 0  
Prerequisites: ED A201 and (ED A321 or concurrent enrollment) and (ED A320 or concurrent enrollment).  
- Theories of classroom management as they pertain to early childhood, elementary, middle school/transcendent, 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  
Contact Hours: 3 + 0  
Prerequisites: ED A301 and EDSE A482 and (ED A425 or concurrent enrollment).  
- Philosophy, curriculum development, methods for facilitating learning and behavior modification, measurement and evaluation, observations and teaching in elementary and secondary school physical education.

**EDSE A412**  Curriculum and Strategies I: Low Incidence  
Contact Hours: 3 + 0  
Prerequisites: PSY A245.  
- 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.

**EDSE A437**  Methods of Teaching School Health Education  
Contact Hours: 3 + 0  
Special Fees.  
- Examines the teacher’s role in comprehensive school health education (CSHE). Topics include an introduction to the health status of children and youth, at-risk students, objectives from healthy people 2000, and components of teaching comprehensive school health education.

**EDSE A443**  Contemporary Issues in Health, Outdoor, and Physical Education  
Contact Hours: 1-3 CR  
Registration Restrictions: Junior- or senior-level health, outdoor, and physical education major; or working health, outdoor, or physical education professional; or baccalaureate degree.  
- Topical issues related to a specific area in health, outdoor, or physical education. Specific topics to be announced.
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.  
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 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 School of Education; Admission to 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 School of Education; Admission to 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.  
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 and interpretation of formal and informal assessment procedures.

EDSE A610V 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 & Instruction in Special Education 3 CR  
Contact Hours: 3 + 0  
Prerequisites: (EDSE A460 or concurrent enrollment) and (EDSE A610 or concurrent enrollment).  
Registration Restrictions: Admission to Endorsement Program in Special Education.  
Grade Mode: Pass/No Pass.  
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.  
Supervised field experience with children 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 is 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 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 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.  
As directed by graduate committee.

**Electrical Engineering - EE**

http://www.engr.uaa.alaska.edu

**Offered through the School of Engineering**

**Engineering Building (ENGR), Room 201, 786-1900**

**EE A102  Introduction to Electrical Engineering  3 CR**  
Contact Hours: 2 + 3  
Prerequisites: (MATH A200 or concurrent enrollment).

Special Fees. 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. 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. 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]. 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 A311  Applied Engineering Electromagnetics  3 CR**  
Contact Hours: 3 + 0  
Prerequisites: EE A203 and MATH A302 and PHYS A212. Analysis and design of transmission lines and distributed linear circuits using impedance concepts. Development of electromagnetic circuit equations and their relation to circuit models. Magnetostatics and the magnetic circuit. Electromagnetic wave propagation. Application of the wave equation to engineering systems.

**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.
EMERGENCY MEDICAL TECHNOLOGY - EMT

Offered through the Community and Technical College
Allied Health Sciences Building room 155, 786-6938

EMT A110 Emergency Trauma Technician 3 CR
Contact Hours: 2 + 2
Special Fees.

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.

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.

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 Fees.

Registration Restrictions: Average reading skills recommended.
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: GER Written Communication Requirement. Special Fees.
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.

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 A130 Introduction to Literature 3 CR
Contact Hours: 3 + 0
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: GER Humanities Requirement. 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: GER Humanities Requirement. 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: GER Written Communication Requirement.
Special Fees.
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: GER Written Communication Requirement.
Special Fees.
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: GER Written Communication Requirement.
Special Fees.
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: GER Written Communication Requirement.
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: 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: GER Humanities Requirement.
Offered Spring Semesters.
Study of significant writers of Britain from the Restoration to about the middle of the seventeenth. Representative authors and genres.

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 ENGL A202 strongly recommended.
Course Attributes: GER Humanities Requirement.
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: GER Humanities Requirement.
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: GER Humanities Requirement.
Special Fees.
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: GER Humanities Requirement.
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: GER Written Communication Requirement.
Special Fees.
Offered Fall 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: GER Written Communication Requirement.
Special Fees.
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.
Course Attributes: GER Written Communication Requirement.
Offered Fall Semesters.
A selective survey of primarily Western literature from the fifth century through the fifteenth. Representative authors and genres.

ENGL A315  Medieval Literature  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Offered Fall Semesters.
A selective survey of primarily Western literature from the fifth century through about the middle of the seventh. Representative authors and genres.

ENGL A320  Renaissance Literature  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
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.
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.
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.
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.
Offered Fall 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.
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.
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.
Offered 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.
Offered Fall 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.
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.
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: GER Humanities Requirement.
Special Fees.
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 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.
Offered Fall Semesters.
Study of particular topics in literature by women writers.

ENGL A414  Research Writing  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Offered Alternate Spring Semesters.
Special Note: Applies once towards requirement for English majors; may be repeated once for credit with a change of subtitle. Registration Restrictions: ENGL A201 and A202 strongly recommended.
Special Fees.
Offered Fall and Spring Semesters.
Technical, specialized exposition, documentation, and research. Concentration on language, style, and audience in scholarly articles. Papers in students’ 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].
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.
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.
Offered Alternate Spring Semesters.
A 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 toward requirement for English majors; may be repeated once for elective credit with a change of subtitle.
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.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENGL A445</strong> Alaska Native Literatures</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C.</td>
</tr>
<tr>
<td>Course Attributes: GER Humanities Requirement.</td>
</tr>
<tr>
<td>Study of traditional, historical stories and contemporary texts written by Alaska Natives.</td>
</tr>
<tr>
<td><strong>ENGL A450</strong> Linguistics and Language Teaching</td>
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<tr>
<td>Contact Hours: 3 + 2</td>
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<tr>
<td>Prerequisites: LING A101.</td>
</tr>
<tr>
<td>Offered Alternate Fall Semesters.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>ENGL A452</strong> English Grammar and Language Teaching</td>
</tr>
<tr>
<td>Contact Hours: 3 + 2</td>
</tr>
<tr>
<td>Prerequisites: ENGL A211 or ENGL A212 or ENGL A213.</td>
</tr>
<tr>
<td>Offered Alternate Spring Semesters.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>ENGL A475</strong> Modern Grammar</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: LING A201.</td>
</tr>
<tr>
<td>Special Note: Recommended for students in education with a teaching major or minor in English.</td>
</tr>
<tr>
<td>Offered Spring Semesters.</td>
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<tr>
<td>An inductive modern linguistic analysis of English emphasizing transformational grammar.</td>
</tr>
<tr>
<td><strong>ENGL A476</strong> History of English Language</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: LING A101 is recommended but not required.</td>
</tr>
<tr>
<td>Offered Fall Semesters.</td>
</tr>
<tr>
<td>Origins and development of the English language from prehistoric times to the present.</td>
</tr>
<tr>
<td><strong>ENGL A487</strong> Standard Written English</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: LING A201.</td>
</tr>
<tr>
<td>Offered Fall Semesters.</td>
</tr>
<tr>
<td>Analysis of English emphasizing traditional grammar, standard usage, and rhetoric.</td>
</tr>
<tr>
<td><strong>ENGL A490</strong> Selected Topics in English</td>
</tr>
<tr>
<td>Contact Hours: 1-3 + 0</td>
</tr>
<tr>
<td>Prerequisites: ENGL A201 and ENGL A202.</td>
</tr>
<tr>
<td>Special Note: May be repeated for a maximum of 6 degree credits with a change of subtitle.</td>
</tr>
<tr>
<td>Current topics in English language and literature, arising from special circumstances of demand or faculty expertise.</td>
</tr>
<tr>
<td><strong>ENGL A491</strong> Topics in Composition and Rhetoric</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>ENGL A495</strong> Internship in Professional Writing</td>
</tr>
<tr>
<td>Contact Hours: 0 + 3-9</td>
</tr>
<tr>
<td>Prerequisites: ENGL A211 with minimum grade of B or ENGL A212 with minimum grade of B or ENGL A213 with minimum grade of B.</td>
</tr>
<tr>
<td>Registration Restrictions: Faculty permission required.</td>
</tr>
<tr>
<td>Advanced application of writing skills in a professional work setting.</td>
</tr>
<tr>
<td><strong>ENGL A499</strong> English Honors Thesis</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: ENGL A492 with minimum grade of B.</td>
</tr>
<tr>
<td>Special Note: May not be repeated for credit.</td>
</tr>
<tr>
<td><strong>ENGL A601</strong> Introduction to Graduate Studies in English</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Graduate Standing.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Special Note: Must be completed before the student advances to candidacy for the MA.</td>
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<tr>
<td>Offered Fall Semesters.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>ENGL A602</strong> Contemporary Critical Theory</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Graduate Standing.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Offered Spring Semesters.</td>
</tr>
<tr>
<td>Spectrum of major types of critical theory currently practiced in American research universities and their specific role in shaping English departments and programs.</td>
</tr>
<tr>
<td><strong>ENGL A604</strong> Studies in Women’s Literature</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Registration Restrictions: Graduate Standing.</td>
</tr>
<tr>
<td>Special Note: May be repeated once for degree credit with change of subtitile.</td>
</tr>
<tr>
<td>Offered Alternate Spring Semesters.</td>
</tr>
<tr>
<td>Advanced study of particular topics in literature by women writers.</td>
</tr>
<tr>
<td><strong>ENGL A606</strong> Studies in the Development of the English Language</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Graduate Standing.</td>
</tr>
<tr>
<td>Special Note: May be repeated once for degree credit with change of subtitile.</td>
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<tr>
<td>Offered Alternate Spring Semesters.</td>
</tr>
<tr>
<td>Advanced study of particular topics, trends, and issues in the development of English as a national and global language.</td>
</tr>
<tr>
<td><strong>ENGL A607</strong> Studies in American Literature</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Graduate Standing.</td>
</tr>
<tr>
<td>Special Note: May be repeated once for degree credit with change of subtitile.</td>
</tr>
<tr>
<td>Offered Alternate Spring Semesters.</td>
</tr>
<tr>
<td>Advanced study of particular topics and issues in American literature.</td>
</tr>
<tr>
<td>Readings will include not only primary texts but also secondary discussions of theories of American literature and literary history.</td>
</tr>
<tr>
<td><strong>ENGL A615</strong> Studies in Medieval Literature</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Graduate Standing.</td>
</tr>
<tr>
<td>Special Note: May be repeated once for degree credit with change of subtitile.</td>
</tr>
<tr>
<td>Offered Alternate Spring Semesters.</td>
</tr>
<tr>
<td>Advanced study of particular topics in Medieval Western literature.</td>
</tr>
<tr>
<td><strong>ENGL A620</strong> Studies in Renaissance Literature</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Graduate Standing.</td>
</tr>
<tr>
<td>Special Note: May be repeated once for degree credit with change of subtitile.</td>
</tr>
<tr>
<td>Offered Alternate Spring Semesters.</td>
</tr>
<tr>
<td>Advanced study of particular topics in the literature of the European Renaissance.</td>
</tr>
<tr>
<td><strong>ENGL A625</strong> Studies in Neoclassical Literature</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Graduate Standing.</td>
</tr>
<tr>
<td>Special Note: May be repeated once for degree credit with change of subtitile.</td>
</tr>
<tr>
<td>Offered Alternate Fall Semesters.</td>
</tr>
<tr>
<td>Advanced study of particular topics in the literature of the late seventeenth and eighteenth centuries.</td>
</tr>
<tr>
<td><strong>ENGL A630</strong> Studies in the Literature of Romanticism</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Graduate Standing.</td>
</tr>
<tr>
<td>Special Note: May be repeated once for degree credit with change of subtitile.</td>
</tr>
<tr>
<td>Offered Alternate Fall Semesters.</td>
</tr>
<tr>
<td>Advanced study of particular topics in the literature of the Romantic period.</td>
</tr>
<tr>
<td><strong>ENGL A636</strong> Studies in Modern Criticism</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Graduate Standing.</td>
</tr>
<tr>
<td>Special Note: May be repeated once for degree credit with change of subtitile.</td>
</tr>
<tr>
<td>Offered Alternate Fall Semesters.</td>
</tr>
<tr>
<td>Advanced study of particular topics in twentieth century critical theory and practice.</td>
</tr>
</tbody>
</table>
ENGL A637  Studies in Style and Stylistics: Linguistics and Verbal Art  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Offered as Demand Warrants.
Critical analysis and practical implementation of various styles and stylistic techniques for manipulating elements of sound, diction, and syntax.

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.
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.
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.
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.
Offered Fall and Spring Semesters.

ENVIRONMENTAL STUDIES - ENVI
http://www.uaa.alaska.edu/envi/
envistudies@uaa.alaska.edu
Offered through the College of Arts and Sciences
Institute of Social and Economic Research, Library Building (LIB), Room 207C, 786-1753

ENVI A201  Living on Earth: Introduction to Environmental Studies  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 and MATH A105.
Registration Restrictions: High-school biology or equivalent required.
Course Attributes: 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
Contact Hours: 3 + 0
Prerequisites: ENGL A111 and MATH A105.
Registration Restrictions: High-school biology or equivalent required.
Course Attributes: 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
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
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, ecocentrism, 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
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

http://www.engr.uaa.alaska.edu
Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900

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 A604 Environmental Quality Evaluation 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission and graduate standing.
Topics of environmental impact statements, environmental law (local, state, and federal), and environmental quality. Impact from projects of mining, highways, airports, pipelines, industrial development, water, wastewater and solid waste, and other theoretical considerations and case studies.

EQE A605 Chemical and Physical Water and Wastewater Treatment Processes 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission and graduate standing.

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.
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.

EQE A609 Measurement and Control of Air Pollution 3 CR
Contact Hours: 3 + 0
Prerequisites: EQE A608.

EQE A610 Environmental Ethics for Engineers 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Introduces environmental ethics for practicing engineers. How environmental laws and regulations fit into these ethics. Professional ethics and public environmental policy discussions and case studies.

EQE A611 Biology of Water Quality 3 CR
Contact Hours: 3 + 0
Concepts of water and wastewater biology including effects of land use practices, industrial/commercial development and other cultural effects. Topics include taxonomy of wastewater and indicator species, cellular chemical composition, microbial metabolism, interaction and growth kinetics as used by engineers in assessment of aquatic water quality. Applications of biotic distributions as assessment tools are explored as evaluation tools in measurement of environmental impact effects.

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

http://www.engr.ualaska.edu

Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900

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.
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.
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.
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: PHYS A211 and MATH A201.
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.
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).
Offered Spring 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).
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.
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.
Offered Spring Semesters.
Systems, properties, processes, and cycles. Fundamental principles of thermodynamics (first and second laws), and elementary applications.

ENGLISH-AS-SECOND LANGUAGE - ESL

http://www.uaa.alaska.edu/eng

Offered through the Community and Technical College
Sally Monsrud Building (SMB), Room 102, 786-6856

ESL A066 ESL Through Newspapers 1-4 CR
Contact Hours: 1-4 + 0
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 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.
### ESM A401 Cost Estimating 3 CR
- **Contact Hours:** 3 + 0
- **Prerequisites:** ESM A450.
- **Stacked with:** ESM A610.
- **Crosslisted with:** BA A401.

#### Description:
- Development of organizations and techniques appropriate for 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.

#### Registration Restrictions:
- BS degree in Engineering or in a physical science.

### ESM A450 Economic Analysis and Operations 3 CR
- **Contact Hours:** 3 + 0
- **Prerequisites:** ESM A401.
- **Offered Alternate Spring Semesters.**

#### Description:
- The emphasis is on the application of techniques to engineering management situations.

### 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.
- **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
- **Special Fees:**
- **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 andPERT, 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  
http://www.uaa.alaska.edu/et/dir1.htm  
AYET@UAA.ALASKA.EDU  
Offered through the Community & Technical College  
Gordon Hartlieb Building (GHB), Room 106, 786-6465  

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 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 A120  Motors and Controls  3 CR  
Contact Hours: 3 + 0  
Crosslisted with: AGRI A133 and RH A120.  
Offered only at Matanuska-Susitna College.  
Provides understanding of principles of operation of motors, generators, transformers, and motor control apparatus. Study of definitions, symbols, diagrams, and illustrations gives a sound background in the language and basic principles associated with electricity, electrical equipment, electrical apparatus and electrical code principles.

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 A124  Electronic Calculations II  4 CR  
Contact Hours: 4 + 0  
Prerequisites: ET A103 and ET A104 and ET A150 and ET A106.  
4-hours lecture per week. Covers Boolean algebra, trigonometry, graphs, analytic geometry, waveform analysis, and decibel (dB) calculations. Lab consists of calculation practice necessary to master AC Physics course.

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 A128  Solid State Electronics: Theory and Laboratory  4 CR  
Contact Hours: 3 + 3  
Prerequisites: ET A103 and ET A104 and ET A106.  
Special Fees.  
3-hours lecture and 3-hours lab per week. Familiarizes students with AC measuring techniques and AC test equipment. Includes technical characteristics of bipolar transistors and diodes. Practice in advanced soldering and desoldering techniques.

ET A150  D.C. Electrical Systems  3 CR  
Contact Hours: 3 + 0  
Corequisite: ET A163.  
Covers basic D.C. electrical concepts, definitions, laws, and applications. Introduces passive electrical components, schematic symbols, wiring diagrams, power sources, and distribution systems.

ET A160  A.C. Electrical Systems  3 CR  
Contact Hours: 3 + 0  
Corequisite: ET A161.  
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 A161  A.C. Lab  1 CR  
Contact Hours: 0 + 3  
Corequisite: ET A160.  
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.
COURSE DESCRIPTIONS

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, multinominal 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  Advanced Semiconductors  3 CR
Contact Hours:  2.5 + 2
Prerequisites: ET A164.
Covers advanced 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 coupling devices.

ET A181  Advanced Digital Devices  2 CR
Contact Hours:  1.5 + 2
Prerequisites: ET A165.
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.
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 Fees.
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 basic 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 computer level using factory test equipment and technical service manuals.

ET A218  Personal Computer Networking  3 CR
Contact Hours:  1 + 4
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 A220  Wideband Systems I  3 CR
Contact Hours:  3 + 1
Prerequisites: ET A209.
Offered only at Matanuska-Susitna College.
Television as a system. Introduction to video systems, including transmission, reception and system alignment.

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 A230  Telecommunications  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. Prepares student electronic technicians to understand operation, construction, and maintenance of telephone sets, cables, and switching systems. Includes systems operation, 500-D telephone set, cable code distribution, characteristic impedance, decibel and x-y switching systems, frequency and time division multiplex, and principles of microwave transmission. Lab projects on telephone equipment.

ET A231  Audio  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. Presents circuitry and practical experience in troubleshooting audio home entertainment equipment. Includes audio amplifiers, transducers, tape recorders, phonographs, and electronically regulated power supplies. Lab projects using typical equipment.

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 sinuosidal 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 A250 Transmitters and Receivers 4 CR
Contact Hours: 3 + 2
Prerequisites: ET A230 and ET A231 and ET A232.
Special Fees.
Methods and techniques used in transmission and reception of AM, SSB, and FM signals. Aligning and troubleshooting equipment. Block diagram and schematic interpretation, and use in troubleshooting.

ET A251 Video Systems Analysis 4 CR
Contact Hours: 3 + 2
Prerequisites: ET A230 and ET A231 and ET A232.
Special Fees.
An introduction to video systems, including television transmission and reception, computer monitors, and video recording principles. Emphasis is on diagnosing and repairing video equipment in the laboratory.

ET A252 Computer Systems III 4 CR
Contact Hours: 3 + 2
Special Fees.
Microcomputer interfacing to standard peripheral equipment. Includes parallel and serial interfacing methods, transmission characteristics, multi-user architecture, and interfacing to auxiliary memory systems. Labs on parallel and serial interfacing with associated operating systems patches.

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.
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.
Special Fees.
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.
Course Descriptions

Family and Consumer Sciences - FCS
Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 172, 786-6494
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 their 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

Floral Design - FD
Offered through the Community & Technical College
Lucy Cuddy Center (CUDY), Room 126, 786-4728
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 wedding floral designs
using fresh plant materials. Includes wedding consultation, planning, and
servicing the wedding.

FD A163 Floral Design III 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
corsages using fresh plant materials. Includes pricing and cost control.

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
http://cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030
FREN A101 Elementary French I 4 CR
Contact Hours: 4 + 0
Course Attributes: 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: 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: 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
temporary 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: 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.
FIRE SERVICE ADMINISTRATION - FSA
Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 155, 786-6940
Classes are held at the Fire Department Training Center, 1140 Airport Heights Road, 267-5066.

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
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 eattrication.

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 related to fire problems.

FSA A123 Fire Investigation I 3 CR
Contact Hours: 3 + 0
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
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-resistant materials, and high-rise consideration.

FSA A210 Hazardous Materials II 3 CR
Contact Hours: 3 + 0
Special Fees.
Second semester course in hazardous materials. Covers handling, identification, and firefighting practices for explosive, toxic, and radioactive materials in transit and storage.

FSA A212 Related Codes and Ordinances 3 CR
Contact Hours: 3 + 0
Special Fees.
Background and interpretation of national, state, and local codes, ordinances, and laws which influence fire prevention field.

FSA A214 Fire Protection Equipment and Systems 3 CR
Contact Hours: 3 + 0
Special Fees.
Study of portable fire extinguishing equipment, protection devices, and systems for special hazards. Sprinkler, fire detection, and alarm systems.
FSA A216  Methods of Instruction for Fire Service 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Grade Mode: Pass/No Pass.
Special Fees.
This is 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  Advanced Rescue Practices 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Basic background in fire science.
Special Fees.
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.

FT A102  Net Mending 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Methods of repairing gillnets, seines, and trawls. Materials used in construction of webbing, twine types, trimming holes, mending holes, and inserting patches will be covered. Emphasis on proper knots and techniques.

FT A103  Outboard Maintenance and Repair 1 CR
Contact Hours: 0 + 2
Special Note: Student supplies used outboard motor.
Preventive maintenance and troubleshooting of basic outboard motors.

FT A113  Coastal Piloting and Navigation 3 CR
Contact Hours: 3 + 0
Development of navigation techniques and familiarity with local water. Includes chart reading, compass, piloting, aids to navigation, and rules of the road.

GEOMATICS - GEO
http://www.engr.uaa.alaska.edu/soe/geomatics
Offered through the School of Engineering
Engineering Building (ENG), Room 201, 786-1900

GEO A137  Principles of Mapping 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Computer competency (see admission requirements) or instructor approval.
Special Fees.
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 A155  Introduction to Geomatics 3 CR
Contact Hours: 2 + 3
Registration Restrictions: Computer competency (see admission requirements). Special Fees.
Offered Fall Semesters.
Introduction to the profession of geomatics. Professional obligations and ethics. Projects in instrumentation, photogrammetry, remote sensing, legal research, CADD mapping, geomatic computations, and geographic information systems.

GEO A157  Analytical and Digital Cartography 3 CR
Contact Hours: 2 + 2
Prerequisites: GEO A137.
Special Fees.
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  Geomatics Computer Fundamentals 3 CR
Contact Hours: 2 + 2
Special Fees.
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  Elements of Geomatics Measurements 3/4 CR
Contact Hours: (2+3)+(2+6)
Registration Restrictions: A grade of C or higher in both MATH A108 and GEO A155, or instructor approval for geomatics majors. ES A111 or concurrent enrollment, or instructor approval for civil engineering majors.
Special Fees.
Special Note: Students may enroll for either 3 or 4 credits. Civil Engineering students should enroll for 3 credits; Geomatics students should enroll for 4 credits.
Offered Spring Semesters.

GEO A167  Remote Sensing and Image Analysis 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Computer competency (see admission requirements) or instructor approval.
Special Fees.
Offered Spring Semesters.

GEO A248  Digital Terrain Cartography 3 CR
Contact Hours: 2 + 2
Prerequisites: GEO A157.
Offered Spring Semesters.
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 professional employment.

GEO A250  Survey Employment Practicum 2 CR
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.
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  Municipal and Civil Geomatics 4 CR
Contact Hours: 3 + 3
Prerequisites: MATH A200 and GEO A166.
Special Fees.
Offered Fall Semesters.
Methods of gathering survey data for civil surveys. Evaluation of survey data gathering methods. Geomatics applications for urban surveys. Construction staking for route surveys, small construction project. Platting and mapping techniques.

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 Fees.
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GEO A267</td>
<td>Boundary Law I</td>
<td>4 CR</td>
</tr>
<tr>
<td>Contact Hours:</td>
<td>4 + 0</td>
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<tr>
<td>Prerequisites:</td>
<td>GEO A155.</td>
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<tr>
<td>Offered Spring Semesters.</td>
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<tr>
<td>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.</td>
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<tr>
<td>GEO A290</td>
<td>Selected Topics in Geomatics</td>
<td>1-6 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>0 + 0</td>
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<tr>
<td>Registration Restrictions: Faculty permission.</td>
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<tr>
<td>Theoretical or practical concepts in geomatics. Specific course content is determined by student needs, developments in technology, or licensing requirements.</td>
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<tr>
<td>GEO A355</td>
<td>Land Development and Design</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>2 + 2</td>
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<tr>
<td>Prerequisites:</td>
<td>GEO A248 with minimum grade of C and GEO A267 with minimum grade of C.</td>
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<tr>
<td>Special Fees,</td>
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<tr>
<td>Offered Fall Semesters.</td>
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<tr>
<td>GEO A358</td>
<td>Programming for Digital Cartography</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>2 + 2</td>
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<tr>
<td>Prerequisites:</td>
<td>MATH A201 and CS A207.</td>
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<tr>
<td>Special Fees,</td>
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<tr>
<td>Offered Fall Semesters.</td>
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<tr>
<td>Advanced principles of programming for computer-aided design and mapping. Organization, filing, and data-base principles. Programming routines in various automated mapping languages.</td>
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<tr>
<td>GEO A359</td>
<td>Geodesy and Map Projections</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours:</td>
<td>3 + 0</td>
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<tr>
<td>Prerequisites:</td>
<td>MATH A200.</td>
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<td>Special Fees,</td>
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<tr>
<td>Offered Fall Semesters.</td>
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<tr>
<td>GEO A365</td>
<td>Geomatic Adjustment and Analysis</td>
<td>4 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>4 + 0</td>
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<tr>
<td>Prerequisites:</td>
<td>MATH A202 and GEO A359.</td>
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<tr>
<td>Offered Spring Semesters.</td>
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<tr>
<td>GEO A456</td>
<td>Geomatics and Civil Design</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>2 + 3</td>
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<tr>
<td>Prerequisites:</td>
<td>MATH A200 with minimum grade of C and GEO A166 with minimum grade of C.</td>
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<td>Special Fees,</td>
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<tr>
<td>Offered Fall Semesters.</td>
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<tr>
<td>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.</td>
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<tr>
<td>GEO A457</td>
<td>Boundary Law II</td>
<td>4 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>4 + 0</td>
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<tr>
<td>Prerequisites:</td>
<td>GEO A267 and ENGL A212.</td>
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<tr>
<td>Special Fees,</td>
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<tr>
<td>Offered Fall Semesters.</td>
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<tr>
<td>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.</td>
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<tr>
<td>GEO A459</td>
<td>Geodetic Geometrics</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>3 + 0</td>
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<tr>
<td>Prerequisites:</td>
<td>MATH A202 and GEO A359.</td>
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<tr>
<td>Special Fees,</td>
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<tr>
<td>Offered Spring Semesters.</td>
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<tr>
<td>GEO A460</td>
<td>Geomatics Design Project</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>2 + 2</td>
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<tr>
<td>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.</td>
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<tr>
<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td>Projects in geomatics. Research, design, data compilation, analyses, and mapping. Professional standards and ethical concerns for geomaticians and/or GIS professionals.</td>
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<tr>
<td>GEO A465</td>
<td>Analytical and Digital Photogrammetry</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>3 + 3</td>
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<tr>
<td>Prerequisites:</td>
<td>MATH A200 and GEO A359.</td>
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<tr>
<td>Registration Restrictions: Computer competency (see admissions requirements).</td>
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<tr>
<td>Offered Spring Semesters.</td>
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<tr>
<td>GEO A490</td>
<td>Selected Advanced Topics in Geomatics</td>
<td>1-6 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>0-6 + 0-12</td>
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<tr>
<td>Registration Restrictions: Faculty permission.</td>
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<tr>
<td>Advanced theoretical or practical concepts in geomatics. Specific course content is determined by student needs, developments in technology, or licensing requirements.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GEOGRAPHY - GEOG**

Offered through the College of Arts and Sciences

**GEOG A101**  Introduction to Geography  3 CR
Contact Hours: 3 + 0
Course Attributes: 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
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: 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: GER Natural Sciences w/ Lab.
Special Fees,
Optional laboratory of one additional credit.

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

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GEOG A207B  The Edge of Fire—a Physical Geography of the American West  3 CR
Contact Hours: 1 + 4
Prerequisites: GEOG A205.
Physical geography of the American West through fieldwork and lecture. The effects upon the landscape by climate, plate tectonics, volcanism, glaciation, and fluvial erosion. Regional study may include the desert Southwest, Hawaii, Pacific Northwest, Alaska, and coastal regions.

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 A343  Historical Geography  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior standing.
The impact of the 'lay of the land' and settlement patterns and processes on human history. Attention to the historical geography of cities, rural settlement, and exploitation of natural resources. Examples drawn from Alaska and North America.

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 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.

GEOG A111  Physical Geology  4 CR
Contact Hours: 3 + 3
Prerequisites: MATH A055.
Course Attributes: GER Natural Sciences w/ Lab.
Special Fees.
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.

GEOG A112  Historical Geology  4 CR
Contact Hours: 3 + 3
Prerequisites: GEOG A111.
Course Attributes: GER Natural Sciences w/ Lab.
Special Fees.
Offered Fall and Spring Semesters.
History of earth through geologic time from origin of universe to present, with emphasis on North America. Includes major geologic events, plate tectonics, major life forms of the past, and how they can be inferred from rock records. Lab includes identification of invertebrate fossils, understanding of geologic maps, principles of stratigraphy, and field trip.

GEOG A115  Environmental Geology  3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A055.
Course Attributes: GER Natural Sciences Requirement.
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.

GEOG A115L  Laboratory in Environmental Geology  1-2 CR
Contact Hours: 0 + 3-6
Prerequisites: GEOG A100 or GEOG A111 or (GEOG A115 or concurrent enrollment).
Course Attributes: GER Natural Sciences w/ Lab.
Special Fees.
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.

GEOG A172  Introductory Topics in Geology  1-3 CR
Contact Hours: 1-3 + 0
Special Note: May be repeated with a change of subtitle.
Introduction to specific topics selected from a field in earth science. Topics chosen to reflect interest in specific areas or to address current topics not covered in traditional courses.

GEOG A183  Planet Earth and the New Geoscience  2-3 CR
Contact Hours: 2-3 + 0
Focuses on the features of this planet including oceans, plate tectonics, resources and climate as well as the relationships of earth to the rest of the solar system. It includes recent discoveries in geophysics, oceanography and astronomy along with interpretation of data and graphic analysis.

GEOG A187  Out of the Fiery Furnace  1-2 CR
Contact Hours: 1-2 + 0
Telecourse focusing on minerals and their importance to the modern industrialized world. Examines the formation of different types of minerals, past and present mineral extraction methods, and impact of resources on past and present civilizations.

GEOG A189  Earth Revealed  1 CR
Contact Hours: 1 + 0
Telecourse which documents evidence of geologic principles at geographically diverse sites. The major geologic cycles and processes operating on the earth, geologic formations, earth history, earth’s materials, and the interrelationships of geologic processes with man’s activities.

GEOG A304  Geomorphology  4 CR
Contact Hours: 3 + 3
Prerequisites: GEOG A112.
Special Fees.
Study of land forms and physical processes affecting their development. Lab includes interpretation of topographic maps and aerial photos.

GEOG A306  Structural Geology  4 CR
Contact Hours: 3 + 3
Prerequisites: GEOG A111 and GEOG A112 and MATH A109.
Special Fees.
Special Note: Offered every other year.
Origin, recognition, and interpretation of earth’s primary and secondary structures with application to earth history, exploration and development of mineral resources. Laboratory includes projections, analysis of structural contours, cross sections, block diagrams and graphical solutions to structural problems.
GERMAN - GER

http://cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030
GER A101  Elementary German I  4 CR
Contact Hours: 4 + 0
Course Attributes: GER Humanities Requirement.
Special Fees.
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.

GEOL A308  Sedimentation  4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL A111.
Special Fees.

GEOL A314  Petrology  4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL A313.

GEOL A330  Field Trips in Geology  2 CR
Contact Hours: 2 + 0
Prerequisites: GEOL A111 or GEOL A115.
Special Fees.

GEOL A372  Advanced Topics in Geology  1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: GEOL A100 or GEOL A111 or GEOL A115.
Special Fees.

GEOL A401  Invertebrate Paleontology  4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL A112.
Special Fees.

GER A102  Elementary German II  4 CR
Contact Hours: 4 + 0
Prerequisites: GER A101.
Course Attributes: GER Humanities Requirement.
Special Fees.

GER A201  Intermediate German I  4 CR
Contact Hours: 4 + 0
Prerequisites: GER A102.
Course Attributes: GER Humanities Requirement.
Special Fees.

GER A202  Intermediate German II  4 CR
Contact Hours: 4 + 0
Prerequisites: GER A201.
Course Attributes: GER Humanities Requirement.
Special Fees.

GER A205  Conversational Skills Maintenance I  1 CR
Contact Hours: 0 + 2
Registration Restrictions: Proficiency as after one semester of college-level or one year of high school study in German.

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.

GER A302  Advanced German II  4 CR
Contact Hours: 4 + 0
Prerequisites: GER A301.
Special Fees.

Special Note: May be repeated once for credit.

Grade Mode: Pass/No Pass.

Stacked with: GER A205 and GER A305.

Special Note: Offered every other year.

A maintenance and skills enhancement course for intermediate students of German, 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.

Special Note: May be repeated once for credit.

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.

Grade Mode: Pass/No Pass.

Stacked with: GER A105 and GER A305.

Special Note: May be repeated once for credit.

A maintenance and skills enhancement course at the elementary level, designed primarily to help students of German retain what they have learned. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

Grade Mode: Pass/No Pass.

Stacked with: GER A101 and GER A305.

Special Note: May be repeated once for credit.

A 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.

Grade Mode: Pass/No Pass.

Stacked with: GER A101 and GER A301.

Special Note: May be repeated once for credit.

A 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.

Grade Mode: Pass/No Pass.
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
http://www.engr.uaa.alaska.edu
Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900
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.
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 or instructor approval.
Grade Mode: Pass/No Pass.
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 or instructor approval.
Special Fees.
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 (G.I.S.) 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 or instructor approval. Offered Spring Semesters.

GIS A369  Land Information Systems  3 CR
Contact Hours:  2 + 2
Prerequisites: GIS A268 with minimum grade of C or instructor approval.
Grade Mode: Pass/No Pass.
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 A458  Design and Management of Spatial Data  3 CR
Contact Hours:  2 + 2
Prerequisites: GIS A366 with minimum grade of C or instructor approval. Offered Spring Semesters.
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 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 or instructor approval.
Special Fees.
Offered Fall Semesters.
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 or instructor approval.
Grade Mode: Pass/No Pass.
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 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 or instructor approval.
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
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
Diplomacy Building, Suite 501 786-6544

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
College of Arts & Sciences Building (CAS), Room 330, 786-1535

HIST A101 Western Civilization I 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement 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: GER Humanities Requirement 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: GER Humanities Requirement GER Social Sciences Requirement.
The Great Tradition: origin and development of civilizations of China and Japan, from beginnings to 1600, with emphasis on traditional, social, political, and cultural institutions.

HIST A122 East Asian Civilization II 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.
The Modern Transformation: East Asia from 1600 to present, with emphasis on patterns of social cohesion, transition, and revolutionary change.

HIST A131 History of United States I 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement 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: GER Humanities Requirement GER Social Sciences Requirement.

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 A230 Modern China 3 CR
Contact Hours: 3 + 0
A survey of China from 1800 to present. Rebellion, reform, revolution, and resistance to change will be emphasized.

HIST A231 Modern Japan 3 CR
Contact Hours: 3 + 0
A survey of Japan from 1600 to present. Changes within tradition, rise to power, and modern dilemmas will be emphasized.

HIST A235 History of American Indians 3 CR
Contact Hours: 3 + 0
Surveys histories of American Indian groups, prehistoric to present. Focuses on social, economic, and political effect of westward settlement. Emphasis on major tribes and leaders from Atlantic to Pacific.
HIST A237  American Civil War  3 CR
Contact Hours:  3 + 0
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 A316  Twentieth Century Europe  3 CR
Contact Hours:  3 + 0
A broad historical forces at work during the 20th century—such as war, revolution, fascism, communism, democracy, modernization, decolonization and globalization - and how both elites and ordinary people responded to a changing world.

HIST A310  Renaissance and Reformation Europe  3 CR
Contact Hours:  3 + 0
Origins of early (Kievan) Russia, Mongol Era, and rise of Moscow. Modern Russia to 20th century.

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 A314  Nineteenth Century Europe  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 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 Régime on the eve of the Revolution.

HIST A314  Renaissance and 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 Régime on the eve of the Revolution.

HIST A310  Renaissance and 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 A316  Twentieth Century Europe  3 CR
Contact Hours:  3 + 0
Prerequisites: HIST A102.
Examines the key political, social, economic, intellectual and cultural developments in 20th century Europe. Special emphasis will be placed on the broad historical forces at work during the 20th century—such as war, revolution, fascism, communism, democracy, modernization, decolonization and globalization - and how both elites and ordinary people responded to a changing world.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tr>
<td>HIST A401</td>
<td>The History of Warfare</td>
<td>3 CR</td>
<td>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.</td>
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<tr>
<td>HIST A402</td>
<td>The Second World War</td>
<td>3 CR</td>
<td>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.</td>
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<tr>
<td>HIST A410</td>
<td>History of Modern Germany I</td>
<td>3 CR</td>
<td>The history of Germany from the era of the French Revolution to World War I. The role of Metternich, the rise of German nationalism and fall of German liberalism, the problem of German unification, the period of the German Empire, and the events leading to World War I will be the major points emphasized.</td>
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<tr>
<td>HIST A411</td>
<td>History of Modern Germany II</td>
<td>3 CR</td>
<td>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.</td>
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<td>HIST A418</td>
<td>Tudor and Stuart England</td>
<td>3 CR</td>
<td>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.</td>
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<td>HIST A423</td>
<td>Medieval Russian History</td>
<td>3 CR</td>
<td>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.</td>
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<tr>
<td>HIST A424</td>
<td>Imperial Russian History</td>
<td>3 CR</td>
<td>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.</td>
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<tr>
<td>HIST A425</td>
<td>Soviet Union</td>
<td>3 CR</td>
<td>Russian history from the origins of the Bolshevik Revolution and concentrating on Lenin and his contribution to Marxism; the struggle between Trotsky and Stalin; Stalinitization (purges and collectivization of agriculture); World War II and the Cold War; detente; and the arms race.</td>
</tr>
<tr>
<td>HIST A426</td>
<td>Problems in Russian/Soviet History</td>
<td>3 CR</td>
<td>Selected topics in the thematic exploration of Russian and Soviet history from 900 to the present. Possible topics include the rise of Medieval Muscovy, the nineteenth-century revolutionary movement, the revolutionary years 1917-1929, Stalinism, or the Gorbachev years.</td>
</tr>
<tr>
<td>HIST A431</td>
<td>Colonies and Revolution</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>HIST A434</td>
<td>Early National Period, 1800-1850</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>HIST A440</td>
<td>The American West Since 1850</td>
<td>3 CR</td>
<td>Study of major themes in Western American history, including economic, social and ideological change, and the historiography of the American West.</td>
</tr>
<tr>
<td>HIST A444</td>
<td>Advanced Studies in Film History</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>HIST A451</td>
<td>Populists and Progressives: America, 1877-1917</td>
<td>3 CR</td>
<td>Topics 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.</td>
</tr>
<tr>
<td>HIST A453</td>
<td>America Since 1945</td>
<td>3 CR</td>
<td>Topics 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.</td>
</tr>
<tr>
<td>HIST A455</td>
<td>America and the World in the 20th Century</td>
<td>3 CR</td>
<td>An examination of the motivating forces behind modern American foreign policy. Special emphasis will be placed on intervention, the rise and eventual dominance of liberal internationalism, and the role of covert action in the foreign policy-making process.</td>
</tr>
<tr>
<td>HIST A465</td>
<td>Early American Culture</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>HIST A466</td>
<td>Modern American Culture</td>
<td>3 CR</td>
<td>Primary American ideas and values in their maturity, including free enterprise, social gospel, evolution, individualism, success, freedom, criticism, and heroism.</td>
</tr>
<tr>
<td>HIST A477</td>
<td>Senior Seminar</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>HIST A478</td>
<td>Studies in Early American History</td>
<td>3 CR</td>
<td>An examination of selected fundamental topics in early American history. Areas will be studied as student need and faculty expertise dictate. Subtitle varies.</td>
</tr>
<tr>
<td>HIST A479</td>
<td>Studies in Modern American History</td>
<td>3 CR</td>
<td>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.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

HNRS 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.

HNRS 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.

HNRS 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.

HEALTH - HLTH

Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 170, (907) 786-6400
HLTH A165 Wellness I 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Emphasizes the role of self-responsibility in shifting to the process of wellness and the components of nutritional awareness, physical fitness, stress awareness/management, and environmental sensitivity.

HNRS - HNRS

http://www.uaa.alaska.edu/honors
Offered through the Office of Academic Affairs
Business Education Building (BEB), Room 119, 786-1086
HNRS A110 Community and Cultural Awareness 1 CR
Contact Hours: 1 + 0
Prerequisites: HNRS A192.
Registration Restrictions: Enrollment limited to students admitted to UAA Honors Program, and to students in a UAA departmental honors program who have permission to enroll from the UAA Honors Program Director.

Guided exploration of community and cultural resources through attendance of community activities, meetings, lectures, and cultural events.

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: Modern American Culture 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 examining the individual within American culture from a social perspective. Stress on social roles and social behavior and thinking.

HNRS A310 Community Service 2 CR
Contact Hours: 2 + 0
Prerequisites: HNRS A110 and HNRS A192 and HNRS A292.
Registration Restrictions: Enrollment limited to students admitted to UAA Honors Program, and student in a UAA departmental honors program who have permission to enroll from the UAA Honors Program Director.

Guided volunteer service with a cultural organization, or government agency.

HNRS A392 Honors Thesis 3 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.

In-depth application of discipline research skills to a particular problem in concert with development of understanding of the research problems addressed 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 Fees.

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, Education & Social Welfare
Diplomacy Building (DPL), Room 530, 786-6572
HS A220 Core Concepts in the Health Sciences 3 CR
Contact Hours: 3 + 0
Course Attributes: 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 in 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 A381 Substance Abuse Treatment 3 CR
Contact Hours: 3 + 0
Prerequisites: HS A350 or PSY A350.

Introduction to theory and essential processes and techniques used in treating substance abuse. Specifically designed to emphasize an understanding of chemical dependency and its effects upon one individual, and to foster interpersonal communication skills.
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.

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.

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.

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.

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 or PSY A350.

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 or PSY 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 in Alaska  3 CR
Contact Hours:  3 + 0
Registration Restrictions: MEDEX 469. Acceptance into the University of Washington MEDEX Northwest Physician Assistant Program, 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 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 morality 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.

Principles and methods of epidemiologic research. Major topics include etiological factors of disease and injury, the distribution of health problems within populations, levels of prevention, and the concept of risk. The design of retrospective, cross-sectional, and prospective studies are examined, to illustrate odds ratio, relative risk, life tables and person-years. Other topics include the adjustment of rates.

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.

HUMANITIES - HUM

Offered through the College of Arts and Sciences
College of Arts and Sciences Building (CAS), Room 335, (907) 786-1761

HUM A205  Introduction to Humanities I  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Humanities Requirement.

Offered as Demand Warrants.

HUM A211  Introduction to Humanities II  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Humanities Requirement.

Offered as Demand Warrants.

A study of a given historical period or periods with reference to art, literature, philosophy, and music.
**Course Descriptions**

**HUMS A220**  
**Film as/and Literature**  3 CR  
Contact Hours: 3 + 0  
An exploration of what makes good literature and good film, and the relationship between the two genres. Focuses on how literary and cinematic expression differs, and how—or if—the former translates into the latter. Students learn to read novels, plays, and short stories critically and to watch films critically. Two critical essays required; readings are numerous.

**HUMS A230**  
**Introduction to Folklore**  3 CR  
Contact Hours: 3 + 0  
Introduces history, central themes, genres and methodology of contemporary folklore studies emphasizing folklore as a discipline. Focuses on the interplay of community, creativity, and symbolic communication in human society by looking at tradition, landscape, ethnicity, material culture, vernacular architecture, oral history, belief, song and performance.

**HUMS A250**  
**Myths and Contemporary Culture**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: ENGL A111 and COMM A111.  
Course Attributes: GER Humanities Requirement.  
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, Education & Social Welfare*

**Beatrice McDonald Building (BMB), Room 106, 786-6437**

**HUMS A101**  
**Introduction to Human Services**  3 CR  
Contact Hours: 3 + 0  
Special Fees.  
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: GER Social Sciences Requirement.  
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 provision. 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.  
Offered Fall Semesters.  
Examines cultural values and norms, and social attitudes toward alcohol and drug abuse. Impact of abuse on personal functioning and interpersonal relations.

**HUMS A123**  
**Public Education and Prevention in Substance Abuse**  3 CR  
Contact Hours: 3 + 0  
Special Fees.  
Offered Spring Semesters.  
Use of community organization knowledge and skills for development of educational and preventive programs in substance 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 A150**  
**Marriage, Divorce and Intimate Relationships in the 90’s**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: HUMS A101 and [PSY A223 or HUMS A223].  
Registration Restrictions: Faculty permission.  
Special Fees.  
Exploration of behaviors, values, attitudes and consequences of contemporary patterns of marriage, divorce and intimate relationships from the perspectives of American Culture, ethnic groups and students. Examines values and attitudes toward family, sex roles, sexuality, marriage and divorce; six traditional and contemporary relationship options; dynamics of intimate relationships; and relationships in the future.

**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.  
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 A231**  
**Applied Behavioral Analysis I**  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, 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 A262**  
**Human Services Practicum I**  4 CR  
Contact Hours: 1 + 10  
Prerequisites: HUMS A101 and [PSY A223 or HUMS A223].  
Registration Restrictions: Faculty permission.  
Special Fees.  
Offered Fall and Spring Semesters.  
Arranged placement in community human service agency. Emphasis on observation of agency structure and functioning, professional relationships, and inter-agency relationships. Application of beginning helping skills with agency clients. Weekly in class seminar to facilitate integration of knowledge, skills, and values.
HUMS A263 Human Services Practicum II 4 CR  
Contact Hours: 1 + 10  
Prerequisites: HUMS A262.  
Registration Restrictions: Faculty permission.  
Special Fees.  
Offered Fall and Spring Semesters.  
Continuation of HUMS A262. Emphasizes increasing responsibility for direct client services. Problem assessment, case planning and management, and preparation for entry-level professional responsibilities. Weekly in class seminar to facilitate integration of knowledge, skills, and values. Agency placement arranged.

HUMS A290 Selected Topics in Alcohol and Drug Counseling .5-3 CR  
Contact Hours: .5-3 + 0  
Grade Mode: Pass/No Pass.  
Provides the most current education in the area of substance abuse counseling. Specific topics will vary.

HUMS A324 Introduction to Paraprofessional Counseling II 3 CR  
Contact Hours: 3 + 0  
Prerequisites: HUMS A223.  
Special Fees.  
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.  
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.  
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 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.  
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.  
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.  
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.  
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.  
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  
Arts Building (ARTS), Room 302, 786-1783

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
College of Arts & Sciences Building (CAS), Room 359, 786-4836

INTL A301  Canada: Introductory Survey  3 CR
Contact Hours: 3 + 0
Course Attributes: 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 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  The North East Asia-Pacific Region  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 philosophical 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 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.

ITALIAN - ITAL

http://cwoolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K, Room 205, 786-4030

ITAL A101  Elementary Italian I  4 CR
Contact Hours: 4 + 0
Course Attributes: GER Humanities Requirement.
Special Fees.
Offered as 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 I  4 CR
Contact Hours: 4 + 0
Prerequisites: ITAL A101.
Course Attributes: GER Humanities Requirement.
Special Fees.
Offered as 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

http://webserver.cts.uaa.alaska.edu/jpc/jpc.html
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 203, 786-4180

JPC A101  Introduction to Mass Communication  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Special Fees.
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: 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 A315 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 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 Principles of Advertising 3 CR
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.

JPC A328 Advertising Campaign 3 CR
Contact Hours: 3 + 0
Prerequisites: JPC A329 and JPC A326.
Planning and execution of advertising campaign, marketing and consumer research, organization and function of advertising agencies, selection of media, etc.

JPC A329 Graphics and Publication Design 3 CR
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.

JPC A331 Experimental Photography 3 CR
Contact Hours: 0 + 6
Prerequisites: JPC A242 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.

JPC A340 Web Design 3 CR
Contact Hours: 2 + 2
Prerequisites: JPC A29.
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.

JPC A341 Broadcast Journalism Production 3 CR
Contact Hours: 3 + 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.

JPC A350 Directing for Film and Television 3 CR
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.

JPC A355 Writing for Public Relations 3 CR
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.

JPC A364 Advertising Strategy 3 CR
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.

JPC A365 Advertising Creativity 3 CR
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.

JPC A367 History of Photography 3 CR
Contact Hours: 3 + 0
Crosslisted with: ART A367.
Course Attributes: GER Fine Arts Requirement 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.

JPC A400 Practicum 1-3 CR
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.

University of Alaska Anchorage 2002-2003 Course Catalog
www.uaa.alaska.edu Chapter 11 Page 371
JPC A401  Magazine Production  3 CR  
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.

JPC A413  Communications Law  3 CR  
Contact Hours: 3 + 0  
Crosslisted with: JUST A413.  
Legal rights, privileges, and regulations of press, radio, television, and films; libel, contempt, copyright, rights of privacy; and decisions of regulatory bodies.

JPC A416  Information Age Communication  3 CR  
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.

JPC A424  Advanced Photography  3 CR  
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.

JPC A435  Communication Research  3 CR  
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.

JPC A440  The Press: Issues and Answers  3 CR  
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.

JPC A450  Internship in Journalism  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 journalism.

JPC A451  Internship in Public Relations or Advertising  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 public relations or advertising.

JPC A452  Internship in Telecommunications  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 telecommunication.

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.

JPN A100A  Introduction to Japanese Language and Culture I  3 CR  
Contact Hours: 3 + 0  
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.  
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: 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: 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: 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: 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.
JUSTICE - JUST

http://www.uaa.alaska.edu/just/

Offered through the College of Health, Education & Social Welfare
College of Arts & Sciences Building (CAS), Room 300, 786-1810

JUST A110 Introduction to Justice 3 CR

Contact Hours: 3 + 0
Course Attributes: 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 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.
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.
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.
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: GER Social Sciences Requirement. 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.  

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. 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. 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. 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 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>JUST A445</td>
<td>Probation, Parole and Community Corrections</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JUST A210</td>
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<tr>
<td>JUST A451</td>
<td>Research and Policymaking</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>JUST A110 and AS A252</td>
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<td>JUST A454</td>
<td>Evaluation Research and Change</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Social science methods course</td>
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<tr>
<td>JUST A455</td>
<td>Rural Justice</td>
<td>3 CR</td>
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<td>JUST A110</td>
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<td>JUST A456</td>
<td>Anthropology and the Law</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ANTH A456, Demand Warrants</td>
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<tr>
<td>JUST A462</td>
<td>Indian Law and the Settlement Act</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JUST A110 and JUST A250</td>
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<tr>
<td>JUST A465</td>
<td>Legislation</td>
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<td>3 + 0</td>
<td>JUST A110</td>
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<tr>
<td>JUST A475</td>
<td>Juvenile Procedure</td>
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<td>JUST A203 or SOC A203</td>
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<tr>
<td>JUST A480</td>
<td>Correctional Systems Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JUST A110 and JUST A251</td>
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<td>JUST A488</td>
<td>Research Practicum</td>
<td>1-6 CR</td>
<td>0 + 3-18</td>
<td>JUST A451, Faculty permission required</td>
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<tr>
<td>JUST A490</td>
<td>Contemporary Justice Issues</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
<td>JUST A110, Junior standing</td>
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<tr>
<td>JUST A491</td>
<td>Natural Resources Law</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Jurisdiction and land use regulations, public land issues</td>
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<td>JUST A495</td>
<td>Internship</td>
<td>1-6 CR</td>
<td>0 + 5-3</td>
<td>Approval by internship coordinator, Mode: Pass/No Pass</td>
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<td>JUST A625</td>
<td>Seminar in Criminal Violation</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Offered Alternate Fall Semesters</td>
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<tr>
<td>JUST A630</td>
<td>Justice Administrative Theory and Practice</td>
<td>3 CR</td>
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<td>Offered Alternate Spring Semesters</td>
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<td>JUST A640</td>
<td>Corrections Theory and Research</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Graduate Standing, Demand Warrants</td>
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<tr>
<td>JUST A650</td>
<td>Policing Theory and Research</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Graduate Standing, Offered Alternate Spring Semesters</td>
</tr>
<tr>
<td>JUST A670</td>
<td>Administrative Law</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Graduate Standing, Offered Spring Semesters</td>
</tr>
<tr>
<td>JUST A699</td>
<td>Thesis</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>Jurisdiction and land use regulations, public land issues</td>
</tr>
</tbody>
</table>

**Notes:**
- Prerequisites: JUST A110 and AS A252, 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.
- Offered Fall and Spring Semesters.
- An advanced criminology seminar which will explore the application of various theories of crime causation to specific kinds of criminal violation.
- 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.
- An introduction to the law of land and resource development, with special emphasis on land and water use regulation and public land issues.
- Offered Fall and Spring Semesters.
- Special Note: May be repeated once for credit with a change in subtitle.
- 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.
- Theoretical foundation of correctional practice explored through reading of classic texts. Development and testing of hypotheses on rehabilitation, retribution, and incapacitation.
- 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.
- Selection of topics in criminal justice.
KOREAN - KOR

http://cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030

KOR A101  Elementary Korean I  4 CR
Contact Hours:  4 + 0
Course Attributes: 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: GER Humanities Requirement.
Special Fees.
  Continuation of KOR A101. Emphasizes conversational mode, with exposure to grammatical structure, reading, writing and some culture.

LANGUAGES - LANG

http://cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030

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 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

http://cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030

LAT A101  Elementary Latin I  3 CR
Contact Hours:  3 + 0
Course Attributes: 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: 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
Beatrice McDonald Building 212, 786-6445
http://www.uaa.alaska.edu/lgop/

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

http://www.engl.uaa.alaska.edu
Offered through the College of Arts and Sciences
Classroom Building K, Room 212, 786-4355

LING A101  The Nature of Language  3 CR
Contact Hours:  3 + 0
Course Attributes: GER Humanities Requirement.
  Offered Fall and Spring Semesters.
  A beginning course in 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
http://www.cbpp.alaska.edu
Business Education Building (BEB), Room 309, 786-4100

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 A595 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 A611 Supply Chain Strategic Planning 6 CR
Contact Hours: 6 + 0
Registration Restrictions: Admission to the Master of Science, Global Supply Chain Management program and assignment to cohort group.
Study of operational efficiency and marketing effectiveness required to meet the objectives of corporate customers engaged in global competition.

LOG A621 Supply Chain Knowledge Management 6 CR
Contact Hours: 6 + 0
Registration Restrictions: Admission to the Master of Science, Global Supply Chain Management program and assignment to cohort group.
Study of techniques for managing the information system used within the community of practitioners operating in the global supply chain.

LOG A631 International Supply Chain Management and Marketing Strategies 6 CR
Contact Hours: 6 + 0
Registration Restrictions: Admission to Master of Science, Global Supply Chain Management program and assignment to cohort group.
Addresses synchronization of marketing strategy and the supply chain.

LOG A664 Supply Chain Management Leadership 6 CR
Contact Hours: 6 + 0
Registration Restrictions: Admission to Master of Science, Global Supply Chain Management program and assignment to cohort group.
Study of leadership and negotiating skills appropriate to the supply chain manager.

LOG A665 Supply Chain Measurement 6 CR
Contact Hours: 6 + 0
Registration Restrictions: Admission to Master of Science, Global Supply Chain Management program and assignment to cohort group.
Study of techniques for measuring the effectiveness of supply chain strategy; analysis of the impact of logistics management on shareholder value and the contributions of the supply chain to the firm’s profitability.
COURSE DESCRIPTIONS

LSIC A332 Science, Technology, and Culture 3 CR
Contact Hours: 3 + 0
Prerequisites: LSIS A202 and LSSS A111 and LSIC A231 and (LSIS 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
College of Arts and Sciences Building (CAS), Room 335, 786-1707

LSIS A101 Discoveries in Science 1 CR
Contact Hours: 1 + 0
Course Attributes: 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: GER Natural Sciences w/ Lab.
Special Fees.
Origins of earth including its formation, its place in the universe, and the life on this planet. Processes that shape the earth, reasons that earth contains life, and the varieties of past and present forms of life.

LSIS A201 Life on Earth 5 CR
Contact Hours: 3 + 6
Prerequisites: LSIS A102.
Course Attributes: GER Natural Sciences w/ Lab.
Special Fees.
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.
Course Attributes: GER Natural Sciences w/ Lab.
Special Fees.
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.

LIBERAL STUDIES SOCIAL SCIENCES - LSSS

Offered through the College of Arts and Sciences
College of Arts and Sciences Building (CAS), Room 335, 786-1707

LSSS A111 Cultural Foundations of Human Behavior 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 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

MA A101 Medical Terminology I 3 CR
Contact Hours: 3 + 0
Prerequisites: MA A101 with minimum grade of C.
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.

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www.uaa.alaska.edu
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
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  Medical Transcription II  3 CR
Contact Hours:  1 + 4
Prerequisites: MA A140.
More advanced and complex machine transcribing of medical dictation.

MA A150  Clinical Procedures I  4 CR
Contact Hours:  3 + 2
Corequisite: MA A150L.
Special Fees.
Introduction to clinical duties of medical assistants and basic clinical procedures in medical offices. Care of patients in examining room, use and care of medical instruments and supplies, and assisting physicians with clinical procedures.

MA A155  Clinical Procedures II  4 CR
Contact Hours:  3 + 2
Corequisite: MA A150L.
Special Fees.
Continuation of MA 150, with introduction to clinical duties of medical assistants and basic clinical procedures in medical offices. Includes electrocardiography, pharmacology, hematology, and radiology.

MA A290  Selected Topics in Medical Assisting  1-6 CR
Contact Hours:  1-6 + 0-15
Prerequisites will vary with topic.

MA A295  Medical Office Externship  5 CR
Contact Hours:  .5 + 15
Grade Mode: Pass/No Pass.
Special Note: A grade of C or better in all courses required for the nontranscribed departmental Certificate of Completion in Medical Assisting.

MA TH A050A, MA TH A050B, MA TH A050C  Basic Mathematics  1 CR
Contact Hours:  1 + 0
Special Fees.
Special Note: Equivalent to MA TH A054. Credit will not be given for both MA TH A050 and MA TH A055. Placement test not required.

MA TH A054  Pre-Algebra  3 CR
Contact Hours:  3 + 0
Special Fees.
Special Note: Equivalent to MA TH A050A, MA TH A050B, MA TH A050C combined are equivalent to MA TH A054.

MA TH A055  Elementary Algebra  3 CR
Contact Hours:  3 + 0
Prerequisites: MA TH A054 with minimum grade of C.
Registration Restrictions: If prerequisite is not satisfied, Math Placement Test is required.

MA TH A056  Essential Mathematics  4 CR
Contact Hours:  4 + 0
Special Fees.
Special Note: Equivalent to MA TH A054 and MA TH A055. Credit will not be given for both MA TH A055 and MA TH 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.
MATH A101 Technical Mathematics 3 CR
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.

MATH A102 Business Math 3 CR
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.

MATH A103 Concepts of Mathematics 3 CR
Contact Hours: 3 + 0
A cultural sequence for students with limited background in mathematical thought and history. Emphasizes mathematical reasoning rather than formal manipulation. Exposes non-math students to diversity of topics in mathematics and teaches deductive reasoning. Topics chosen from arithmetic, geometry, number theory, topology, algebra, and analysis.

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: GER Quantitative Skills Requirement.
Special Fees.
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: GER Quantitative Skills Requirement.
Special Fees.
Continuation of MATH A107. 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 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: GER Quantitative Skills Requirement.
Special Fees.
Continuation of MATH A107, A108 and A109 towards the graduation requirements for any baccalaureate degree.

MATH A200 Calculus I 4 CR
Contact Hours: 4 + 0
Prerequisites: MATH A107 with minimum grade of C and MATH A109 with minimum grade of C.
Registration Restrictions: If prerequisite is not satisfied, Math Placement Test is required.
Course Attributes: 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: 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.
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 A105.
Study of logic, sets, relations, functions, cardinality, and mathematical proof techniques.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH A250</td>
<td>Introduction to Computer Algebra Systems</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: MATH A200 or MATH A272.</td>
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<td></td>
<td>Grade Mode: Pass/No Pass.</td>
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<td>Special Fees.</td>
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<td>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.</td>
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<tr>
<td>MATH A270</td>
<td>Applied Finite Mathematics for the Managerial Sciences</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: MATH A105.</td>
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<td></td>
<td>Registration Restrictions: If prerequisite is not satisfied, two years of high school algebra or Math Placement Test is required.</td>
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<td></td>
<td>Course Attributes: GER Quantitative Skills Requirement.</td>
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<td>Special Fees.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>MATH A272</td>
<td>Calculus for Managerial Sciences</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: MATH A270 or MATH A107.</td>
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<tr>
<td></td>
<td>Course Attributes: GER Quantitative Skills Requirement.</td>
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<td>Special Fees.</td>
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<td></td>
<td>Functions and graphs, differentiation, exponential and logarithmic functions, antidifferentiation and integration, functions of several variables. Applications of these mathematical concepts.</td>
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<tr>
<td>MATH A302</td>
<td>Ordinary Differential Equations</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: MATH A202.</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Nature and origin of differential equations, first order equations and solutions; linear differential equations with constant coefficients, systems of equations, power series solutions, operational methods, Laplace Transformations and applications.</td>
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<tr>
<td>MATH A303</td>
<td>Introduction to Modern Algebra</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: MATH A202 and MATH A215.</td>
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<td></td>
<td>Introduction to sets, groups, rings and fields.</td>
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<tr>
<td>MATH A305</td>
<td>Geometry</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: MATH A202 and MATH A215.</td>
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<td></td>
<td>Topics selected from such fields as Euclidean and non-Euclidean plane geometry, affine geometry, projective geometry, and topology.</td>
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<tr>
<td>MATH A306</td>
<td>Discrete Methods</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
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<tr>
<td></td>
<td>Prerequisites: MATH A200 and [MATH A215 or MATH A231].</td>
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<td></td>
<td>Graph theoretical and combinatorial problem solving. Discrete models for applied problems are introduced and algorithmic as well as closed form solution techniques are applied.</td>
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<tr>
<td>MATH A310</td>
<td>Numerical Methods</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: MATH A314.</td>
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<tr>
<td></td>
<td>Registration Restrictions: Programming Language.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>MATH A314</td>
<td>Linear Algebra</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: MATH A202.</td>
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<td>Special Fees.</td>
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<tr>
<td></td>
<td>Linear equations, finite dimensional vector spaces, matrices, determinants, linear transformations, and characteristic values. Inner product spaces.</td>
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<tr>
<td>MATH A321</td>
<td>Analysis of Several Variables</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: MATH A202 and MATH A314.</td>
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<tr>
<td></td>
<td>Vector calculus, exterior calculus, optimization techniques, and integration with applications. Emphasizes the use of linear and multilinear algebra techniques to generalize the basic methods of calculus to several independent and dependent variables.</td>
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</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

MECHANICAL ENGINEERING - ME

http://www.engr.uaa.alaska.edu

Offered through the School of Engineering
Engineering Building (ENG), Room 201, 786-1900

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
An introduction to 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, corruptions and human performance.

MECHANICAL TECHNOLOGY - MECH

Offered through Kenai Peninsula College
34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

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
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.
Special Fees.
Covers physical, chemical, and microscopic analysis of urine at the clinical assistant level.

MEDT A103  Hematology for Clinical Assistants  3 CR
Contact Hours: 3 + 0
Prerequisites: MEDT A101 with minimum grade of C.
Special Fees.
Covers specimen collection, reagent preparation, quality control, and testing of hematology and coagulation specimens at the clinical assistant level.

MEDT A104  Clinical Chemistry for Clinical Assistants  3 CR
Contact Hours: 3 + 0
Prerequisites: MEDT A101 with minimum grade of C.
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.
Special Fees.
Provides clinical practicum in area hospitals/facilities for phlebotomy. Applies didactic theories and principles of phlebotomy techniques. Prepares student for certification exam.

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COURSE DESCRIPTIONS

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.
Examines 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 with minimum grade of C and BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C 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.
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 C 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
34220 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

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 A123  LORAN and Radar Navigation  1 CR
Contact Hours:  1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College Kachemak Bay Branch.
Special Note: Students are encouraged to bring their own LORAN to class. Development of an understanding of LORAN and radar and their practical applications and use in navigation. Includes interference problems on vessels, installation and interpretation of radar images.
MT A251 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 unpermitted passenger vessels, and master, inland and near coastal.

MTP A151 Human Health and Disease I 3 CR
Contact Hours: 3 + 0
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.
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 function and structure 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 A253 Fundamentals in Therapeutic Massage 4 CR
Contact Hours: 2 + 4
Prerequisites: (MTP A254 with minimum grade of C or concurrent enrollment).
Corequisite: MTP A255.
Introduces massage therapy techniques using hydrotherapy, PNF stretching, dрапing, and proper body mechanics.

MTP A153 Fundamentals in Therapeutic Massage I 5 CR
Contact Hours: 2 + 6
Prerequisites: (MTP A151 with minimum grade of C or concurrent enrollment).
Corequisite: MTP A154.
Introduces the principles, professional standards, and application skills of therapeutic. Includes demonstration and practice of Swedish massage techniques, draping, and proper body mechanics.

MTP A265 Advanced Massage and Bodywork Techniques Technician I 3 CR
Contact Hours: 2 + 2
Prerequisites: MTP A152 with minimum grade of C and MTP A253 with minimum grade of C and MTP A254 with minimum grade of C and MTP A295 with minimum grade of P.
Special Note: Licensed Massage Therapists may enroll without meeting prerequisite requirements.
Prepares massage therapy students for entry-level practice. Provides professional practice models and information to plan, set up, market, and run a new practice as required by Massage Therapy licensure and run a new practice as required by Massage Therapy licensure and registration.

MTP A254 Fundamentals in Therapeutic Massage 4 CR
Contact Hours: 2 + 4
Prerequisites: (MTP A254 with minimum grade of C or concurrent enrollment).
Corequisite: MTP A295.
Introduces techniques to assess a client’s health status. Examines standards for, and provides practice in assessment, documentation, professional communication, and records management.

MTP A155 Massage Therapy Business Management 2 CR
Contact Hours: 2 + 0
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 A295 Massage Therapy Clinic 2 CR
Contact Hours: 0 + 6
Prerequisites: (MTP A254 with minimum grade of C or concurrent enrollment).
Corequisite: MTP A253.
Grade Mode: Pass/No Pass.
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.

MTP A295 Massage Therapy Clinic 2 CR
Contact Hours: 0 + 6
Prerequisites: (MTP A254 with minimum grade of C or concurrent enrollment).
Corequisite: MTP A253.
Grade Mode: Pass/No Pass.
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.

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites/Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS A116</td>
<td>Jazz Theory II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: MUS A115.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
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<tr>
<td>MUS A121</td>
<td>Music Appreciation</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Course Attributes: GER Fine Arts Requirement.</td>
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<tr>
<td></td>
<td>Special Note: Music majors may not use this course towards their GER-Fine Arts requirement.</td>
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<tr>
<td></td>
<td>Enhancement of listener understanding and enjoyment of various musical styles. Investigation of music through the ages: Medieval through contemporary.</td>
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<tr>
<td>MUS A124</td>
<td>History of Jazz</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: MUS A133.</td>
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<td></td>
<td>History and development of jazz from its early heritage to the present, emphasizing representative styles and individual or group contributors.</td>
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<td>Recordings, guest artists, and possible field trips enhance regular classroom activities.</td>
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<tr>
<td>MUS A131</td>
<td>Music Theory I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Corequisite: MUS A133.</td>
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<tr>
<td></td>
<td>Organization of musical materials with emphasis on diatonic functional harmony. Introduction to part writing and keyboard skills.</td>
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<tr>
<td>MUS A132</td>
<td>Music Theory II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: MUS A131.</td>
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<td></td>
<td>Corequisite: MUS A134.</td>
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<tr>
<td></td>
<td>Continuation of MUS A131, emphasizing part writing and melody harmonization. Introduction of non-harmonic tones and modulation and development of practical keyboard skills.</td>
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<tr>
<td>MUS A133</td>
<td>Sightsinging and Ear Training I</td>
<td>1 CR</td>
<td>2 + 0</td>
<td>Corequisite: MUS A131.</td>
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<tr>
<td></td>
<td>The development of skills in hearing and reading music. The course features the study of intervals and chords and common metrical patterns.</td>
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<tr>
<td>MUS A134</td>
<td>Sightsinging and Ear Training II</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Prerequisites: MUS A133.</td>
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<td></td>
<td>Corequisite: MUS A132.</td>
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<tr>
<td></td>
<td>Continuation of MUS A133, emphasizing rhythmic, melodic and harmonic dictation.</td>
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<tr>
<td>MUS A140</td>
<td>Fingerstyle Guitar I</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Special Fees.</td>
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<td>Special Note: Student must furnish own 6-string acoustic guitar.</td>
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<td>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.</td>
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<tr>
<td>MUS A141</td>
<td>Fingerstyle Guitar II</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Registration Restrictions: MUS A140 or the ability to notate 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.</td>
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<td>Special Fees.</td>
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<td></td>
<td>Continuation of MUS A140. Introduces barre chords, bass riffs, 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.</td>
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<tr>
<td>MUS A142</td>
<td>Guitar Chord Theory</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Registration Restrictions: Ability to read music on the treble staff. May be taken concurrently with MUS A141.</td>
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<td></td>
<td>Special Fees.</td>
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<td>Special Note: Instrument required.</td>
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<td>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.</td>
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<tr>
<td>MUS A149</td>
<td>Voice Lessons I</td>
<td>1-2 CR</td>
<td>1-2 + 0</td>
<td>Prerequisites: MUS A115.</td>
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<tr>
<td></td>
<td>Contact Hours: 1-2 + 0.</td>
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<td>Offered only at Kenai Peninsula College.</td>
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<td>Vocal techniques using theatre songs and folk music, designed to improve performing and musical skills.</td>
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<tr>
<td>MUS A150</td>
<td>Piano Class I</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>Special Fees.</td>
</tr>
<tr>
<td>MUS A152</td>
<td>Voice Class I</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>Registration Restrictions: Ability to match pitches.</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Special Note: Ability to read music not a prerequisite.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>MUS A154</td>
<td>Functional Piano I</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>Prerequisites: MUS A131 or concurrent enrollment.</td>
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<tr>
<td></td>
<td>Contact Hours: 1 + 0</td>
<td></td>
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<tr>
<td></td>
<td>Helps music majors obtain performance, sight-reading, and harmonization/transposition skills needed to pass Piano Proficiency Examination.</td>
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<tr>
<td></td>
<td>Emphasizes basic reading skills and keyboard coordination.</td>
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</tr>
<tr>
<td>MUS A155</td>
<td>Functional Piano II</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>Prerequisites: MUS A154.</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1 + 0</td>
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<tr>
<td></td>
<td>Continuation of MUS A154, using simple literature, sight-reading exercises, major scales and cadences, and simple tunes with primary triads.</td>
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</tr>
<tr>
<td>MUS A161</td>
<td>Private Lessons</td>
<td>1-2 CR</td>
<td>1-2 + 3-6</td>
<td>Special Fees.</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1-2 + 3-6</td>
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<tr>
<td></td>
<td>Special Note: Private lessons: students who read music, demonstrate secure rhythm and pitch, and produce acceptable vocal sound. Students majoring in music enroll for 2 credits.</td>
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</tr>
<tr>
<td>MUS A162</td>
<td>Private Lessons</td>
<td>1-2 CR</td>
<td>1-2 + 3-6</td>
<td>Special Fees.</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1-2 + 3-6.</td>
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<tr>
<td></td>
<td>Special Note: Performance majors enroll for 2 credits.</td>
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</tr>
<tr>
<td>MUS A163</td>
<td>Private Lessons (Non-Major)</td>
<td>1-2 CR</td>
<td>1-2 + 3-6</td>
<td>Special Fees.</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1-2 + 3-6.</td>
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<tr>
<td></td>
<td>Special Note: Performance majors enroll for 2 credits.</td>
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</tr>
<tr>
<td>MUS A164</td>
<td>Private Lessons (Non-Major)</td>
<td>1-2 CR</td>
<td>1-2 + 3-6</td>
<td>Special Fees.</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1-2 + 3-6.</td>
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<tr>
<td></td>
<td>Special Note: Private lessons: based on theatre songs and folk music, designed to improve performing and musical skills.</td>
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</tr>
<tr>
<td>MUS A202</td>
<td>Concert Chorus II</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Registration Restrictions: Admission by audition only.</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 0.</td>
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<tr>
<td></td>
<td>Performance-oriented large chorus. Established community organization for singers who read music, demonstrate secure rhythm and pitch, and produce acceptable vocal sound.</td>
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</tr>
<tr>
<td>MUS A221</td>
<td>History of Music I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: MUS A121 or MUS A131.</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.</td>
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<td></td>
<td>Special Fees.</td>
<td></td>
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<tr>
<td></td>
<td>Special Note: B.A. music majors may not use this course towards their GER-Fine Arts or CAS Humanities sequence requirements.</td>
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<tr>
<td></td>
<td>Music before 1750.</td>
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<tr>
<td></td>
<td>Explores stylistic developments and style through Medieval, Renaissance, and Baroque eras within their historical context.</td>
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</tr>
</tbody>
</table>
### MUS A222  History of Music II  3 CR
Contact Hours:  3 + 0
Prerequisites: MUS A121 or MUS A131.
Course Attributes: GER Fine Arts Requirement 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 and Non-Western music within their historical context.

### MUS A231  Music Theory III  3 CR
Contact Hours:  3 + 0
Prerequisites: MUS A232.
Corequisite: MUS A233.
Functional harmony featuring part writing and melody harmonization and introducing chromatic harmony. Covers modulation, secondary dominant functions, and other altered chords along with analysis of binary and ternary forms.

### MUS A232  Music Theory IV  3 CR
Contact Hours:  3 + 0
Prerequisites: MUS A231.
Corequisite: MUS A234.
Continuation of MUS A231. Features borrowed chords and other types of chromatic harmonies. Surveys 20th Century harmony.

### MUS A233  Sightingsing and Ear Training III  2 CR
Contact Hours:  2 + 0
Prerequisites: MUS A134.
Corequisite: MUS A231.
Develops advanced skills in hearing and reading music. Features modulation, chromaticism and complex rhythmic patterns.

### MUS A234  Sightingsing and Ear Training IV  2 CR
Contact Hours:  2 + 0
Prerequisites: MUS A233.
Corequisite: MUS A232.
Continuation of MUS A233.

### MUS A240  Fingerstyle Guitar III  2 CR
Contact Hours:  2 + 0
Prerequisites: MUS A141 and MUS A142.
Registration Restrictions: Faculty permission required.
Special Fees.
Continuation of MUS A241. 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.

### MUS A241  Fingerstyle Guitar IV  2 CR
Contact Hours:  2 + 0
Prerequisites: MUS A142 and MUS A240.
Registration Restrictions: Faculty permission required.
Continuation of MUS A240. Review of second position and introduction of notereading in the 4th and 5th positions. Intermediate solo repertoire including examples from the Latin American composers. Fingerstyle technique using extended chords in barre positions and pattern modulation.

### MUS A242  Solo Fingerstyle Guitar  2 CR
Contact Hours:  2 + 0
Prerequisites: MUS A142 and MUS A240.
Registration Restrictions: Faculty permission required.
Special Fees.
Special Note: May be repeated twice 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.

### MUS A249  Voice Lessons II  1-2 CR
Contact Hours:  1-2 + 0
Prerequisites: MUS A149.
Offered only at Kenai Peninsula College.
Continuation of MUS A149.

### MUS A260  Private Lessons  1-2 CR
Contact Hours:  1-2 + 3-6
Special Fees.
Continuation of MUS A261.

### MUS A261  Private Lessons (Non-Major)  1-2 CR
Contact Hours:  1-2 + 3-6
Special Fees.
Continuation of MUS A164.

### MUS A263  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
Contact Hours:  2 + 0
Prerequisites: MUS A131.
Introduces principles of conducting. Explores time-beating, use of left hand, score reading, and transposition as it relates to conducting.

### MUS A301A  University Singers  1 CR
Contact Hours:  2 + 0
Registration Restrictions: By audition.
Grade Mode: Pass/No Pass.
Stacked with: MUS A301B.
Special Fees.
Special Note: May be repeated for credit.
Rehearsal and performance of chamber vocal literature from Renaissance up to and including 20th century contemporary literature. Ensemble for the non music major.

### MUS A301B  University Singers  2 CR
Contact Hours:  2 + 0
Registration Restrictions: By audition.
Stacked with: MUS A301A.
Special Fees.
Special Note: May be repeated for credit.
Rehearsal and performance of chamber vocal literature from Renaissance up to and including 20th century contemporary literature. Ensemble credit for vocal majors.

### MUS A302A  Chamber Music and Accompanying  1 CR
Contact Hours:  1 + 3
Registration Restrictions: By audition.
Grade Mode: Pass/No Pass.
Stacked with: MUS A301A.
Special Note: May be repeated for credit. Advanced vocalists and instrumentalists are also encouraged to enroll.
Ensemble course for the non music major pianist. Covers the art of accompanying singers and instrumentalists and relevant skills such as sight-reading and score-reading.

### MUS A302B  Chamber Music and Accompanying  2 CR
Contact Hours:  1 + 3
Registration Restrictions: By audition.
Grade Mode: Pass/No Pass.
Stacked with: MUS A302A.
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 A303A  University Wind Ensemble  1 CR
Contact Hours:  2 + 0
Registration Restrictions: By audition.
Grade Mode: Pass/No Pass.
Stacked with: MUS A303B.
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 A303B  University Wind Ensemble  2 CR
Contact Hours:  2 + 0
Registration Restrictions: By audition.
Stacked with: MUS A303A.
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 course for wind and percussion majors.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MUS A307A</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: By audition.</td>
</tr>
<tr>
<td>Grade Mode: Pass/No Pass.</td>
</tr>
<tr>
<td>Stacked with: MUS A307B.</td>
</tr>
<tr>
<td>Special Note: May be repeated for credit.</td>
</tr>
<tr>
<td>Intensive study of chamber orchestra literature leading to public performance. String music for intermediate and advanced performers. Includes wind and percussion players for specific works. Ensemble for non music majors.</td>
</tr>
<tr>
<td><strong>MUS A307B</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: By audition.</td>
</tr>
<tr>
<td>Stacked with: MUS A307A.</td>
</tr>
<tr>
<td>Special Note: May be repeated for credit.</td>
</tr>
<tr>
<td>Intensive study of chamber orchestra literature leading to public performance. String music for intermediate and advanced performers. Includes wind and percussion players for specific works. Ensemble for string majors.</td>
</tr>
<tr>
<td><strong>MUS A313</strong></td>
</tr>
<tr>
<td>Contact Hours: 0 + 3-9</td>
</tr>
<tr>
<td>Registration Restrictions: Faculty permission required.</td>
</tr>
<tr>
<td>Grade Mode: Pass/No Pass.</td>
</tr>
<tr>
<td>Special Note: May be repeated for credit.</td>
</tr>
<tr>
<td>The study, rehearsal, production, and performance of selected works from the standard operatic repertoire.</td>
</tr>
<tr>
<td><strong>MUS A331</strong></td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: MUS A232.</td>
</tr>
<tr>
<td>Structural principles and stylistic analysis of music of the 18th and 19th centuries.</td>
</tr>
<tr>
<td><strong>MUS A361</strong></td>
</tr>
<tr>
<td>Contact Hours: 1-2 + 3-6</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Continuation of MUS A262.</td>
</tr>
<tr>
<td><strong>MUS A362</strong></td>
</tr>
<tr>
<td>Contact Hours: 1-2 + 3-6</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Continuation of MUS 361.</td>
</tr>
<tr>
<td><strong>MUS A363</strong></td>
</tr>
<tr>
<td>Contact Hours: 1-2 + 3-6</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Continuation of MUS A264.</td>
</tr>
<tr>
<td><strong>MUS A364</strong></td>
</tr>
<tr>
<td>Contact Hours: 1-2 + 3-6</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Continuation of MUS A363.</td>
</tr>
<tr>
<td><strong>MUS A371</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Prerequisites: MUS A132.</td>
</tr>
<tr>
<td>Special Note: Student must be able to read music fluently while holding/performing on the brass instruments.</td>
</tr>
<tr>
<td>Instruction in the brass instruments. The course is part of the teacher training program.</td>
</tr>
<tr>
<td><strong>MUS A372</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Prerequisites: MUS A132.</td>
</tr>
<tr>
<td>Special Note: Student must be able to read music fluently while holding/performing on the woodwind instruments.</td>
</tr>
<tr>
<td>Instruction in the woodwind instruments. The course is part of the teacher training program.</td>
</tr>
<tr>
<td><strong>MUS A373</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Prerequisites: MUS A132.</td>
</tr>
<tr>
<td>Special Note: Student must be able to read music fluently while holding/performing on the string instruments.</td>
</tr>
<tr>
<td>Instruction in the stringed instruments of the orchestra and guitar. The course is part of the teacher training program.</td>
</tr>
<tr>
<td><strong>MUS A374</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Prerequisites: MUS A132.</td>
</tr>
<tr>
<td>Special Note: Student must be able to sing and read music fluently.</td>
</tr>
<tr>
<td>Instruction in musical use of the voice. The course is part of the teacher training program.</td>
</tr>
<tr>
<td><strong>MUS A375</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Student must be able to read music fluently while holding/performing on the percussion instruments.</td>
</tr>
<tr>
<td>Instruction in the percussion instruments. The course is part of the teacher training program.</td>
</tr>
<tr>
<td><strong>MUS A381</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Prerequisites: MUS A232 and MUS A280.</td>
</tr>
<tr>
<td>Principles of conducting and interpreting choral music.</td>
</tr>
<tr>
<td><strong>MUS A382</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Prerequisites: MUS A232 and MUS A280.</td>
</tr>
<tr>
<td>Principles of conducting and interpreting instrumental music.</td>
</tr>
<tr>
<td><strong>MUS A405A</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: By audition.</td>
</tr>
<tr>
<td>Grade Mode: Pass/No Pass.</td>
</tr>
<tr>
<td>Stacked with: MUS A405B.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Special Note: May be repeated for credit.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>MUS A405B</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: By audition.</td>
</tr>
<tr>
<td>Stacked with: MUS A405A.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Special Note: May be repeated for credit.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>MUS A408A</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: By audition.</td>
</tr>
<tr>
<td>Grade Mode: Pass/No Pass.</td>
</tr>
<tr>
<td>Stacked with: MUS A408B.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Special Note: May be repeated for credit.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>MUS A408B</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: By audition.</td>
</tr>
<tr>
<td>Stacked with: MUS A408A.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Special Note: May be repeated for credit.</td>
</tr>
<tr>
<td>Study and performance of percussion chamber music including 20th century literature for percussion as well as transcriptions of earlier music. Elective for music majors.</td>
</tr>
<tr>
<td><strong>MUS A409A</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: By audition. Recommended: prior ensemble or solo recital experience.</td>
</tr>
<tr>
<td>Grade Mode: Pass/No Pass.</td>
</tr>
<tr>
<td>Stacked with: MUS A409B.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Special Note: May be repeated for credit.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>MUS A409B</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: By audition. Recommended prior ensemble or solo recital experience.</td>
</tr>
<tr>
<td>Stacked with: MUS A409A.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Special Note: May be repeated seven times for credit.</td>
</tr>
<tr>
<td>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, stylistic interpretation, and stage delivery. Ensemble credit for guitar majors.</td>
</tr>
</tbody>
</table>
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 understanding 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 understanding 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 understanding 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 understanding 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, neoclassicism, neo-Romanticism, expressionism, primitivism, minimalism, and styles since 1950. Requires intensive understanding 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.  
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.
Course Descriptions

SS A300  Foundations of Nursing I: Nursing Roles and Processes  3 CR
Contact Hours:  3 + 0
Prerequisites: NS A204 and NS A216.
Corequisite: NS A303 and NS A303L.
Special Fees.
Offered Fall and Spring Semesters.
Introduces nursing roles and the nursing process in the care of clients in a variety of settings. Emphasis on health promotion and disease prevention through health assessment.

SS A302  Processes of Professional Nursing for RN's  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Formal program admission to the BS, nursing science, and current RN licensure in the State of Alaska.
Special Fees.
Offered Spring Semesters.
Introduction and beginning practice in various critical thinking skills that are basic to the practice of professional nursing. Introduces theory and application of change process and returning to school syndrome. Provides opportunities for application of communication theory, nursing process and teaching/learning principles.

SS A303  Foundations of Nursing II: Therapeutics  3 CR
Contact Hours:  3 + 0
Prerequisites: NS A204 and NS A216.
Corequisite: NS A300 and NS A303L.
Special Fees.
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.

SS A303L  Foundations of Nursing II: Laboratory  4 CR
Contact Hours:  0 + 12
Prerequisites: NS A204 and NS A216.
Corequisite: NS A300 and NS A303.
Grade Mode: Pass/No Pass.
Special Fees.
Application of the nursing process and basic therapeutic nursing intervention in the laboratory and selected clinical settings.

SS A305  Health Assessment of Individuals  2 CR
Contact Hours:  2 + 0
Registration Restrictions: RN licensure in State of Alaska
Corequisite: NS A305L.
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.

SS 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.
Clinical experience to build skills and reinforce student learning in NS A305.

SS 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.

SS A309  Pharmacology in Nursing  3 CR
Contact Hours:  3 + 0
Prerequisites: NS A216 with minimum grade of C.
Registration Restrictions: Admission to BS in Nursing Science or RN licensure in State of Alaska.
Special Fees.
Offered Fall and Spring Semesters.
Consideration of prescription and non-prescription drugs used in the therapeutic management of individuals experiencing common pathophysiologic conditions and in promoting health. Emphasis is on the development of understanding of common indications, mechanisms of action, potential beneficial and adverse effects, and on the planning of nursing interventions to maximize the therapeutic effect and to minimize the adverse effects of pharmacologic agents within drug categories.

SS 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.
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.

SS 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.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS A313.

SS 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.

SS 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.

SS 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.
Offered Fall and Spring Semesters.
Emphasizes health states and risk factors in individuals and families across the life spans that are amenable to health promotion and illness prevention efforts, achieving and maintaining healthy lifestyles, as well as self-management of health.

SS 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.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS A315.

SS A318  Professional and Legal Perspectives in Nursing  3 CR
Contact Hours:  3 + 0
Prerequisites: NS A204.
Special Fees.
Offered Fall and Spring Semesters.
Designed to explore the development, evolution, and legal implications of professional nursing practice. Content is organized around the many and varied role activities of the professional nurse. Professional and social trends most likely to influence role development of nurses in the future are examined.
NS A319 | Research In Nursing | 3 CR
Contact Hours: 3 + 0
Prerequisites: NS A318 with minimum grade of C.
Registration Restrictions: Prior completion of a statistics course.
Special Fees.
Offered Fall and Spring Semesters.
Introduction to research methods in nursing and health care. Emphasis on identification of researchable questions, problem formulation, research design, data collection, and analysis. Exploration of the role of the professional nurse prepared at varying educational levels and on strategies for the application of nursing research findings in clinical practice.

NS A321 | Introduction to Nursing Research | 1 CR
Contact Hours: 1 + 0
Prerequisites: NS A300 with minimum grade of C and NS A303 with minimum grade of C and NS A304 with minimum grade of C and NS A309 with minimum grade of C and NS A318 with minimum grade of C.
Registration Restrictions: Meet the course prerequisites and a statistics course with a minimum grade of C. For RN students: RN licensure in the state of Alaska and a statistics course with a minimum grade of C.
Introduction to research knowledge and methods in nursing. Emphasis is on skill development in the interpretation and evaluation of research for application to nursing practice. Content related to identification of researchable questions, problem formulation, reviewing research and theoretical literature, and communicating research. Also includes an exploration of the relationship of ethics to research, as well as research roles of professional nurses at various educational levels, with particular emphasis on the role of the baccalaureate nurse in research activities.

NS A322 | Quantitative Approaches to Nursing Research | 1 CR
Contact Hours: 1 + 0
Prerequisites: NS A300 with minimum grade of C and NS A303 with minimum grade of C and NS A304 with minimum grade of C and NS A309 with minimum grade of C and NS A318 with minimum grade of C and NS A321 with minimum grade of C.
Registration Restrictions: Meet the course prerequisites and a statistics course with a minimum grade of C. For RN students: RN licensure in the State of Alaska, a statistics course with a minimum grade of C, and NS A321 with a minimum grade of C.
Introduction to quantitative approaches to research knowledge and methods in nursing. Content related to descriptive, correlational, quasi-experimental and experimental research. Includes content related to research design, measurement, data collection, and data analysis. Emphasis on developing the ability to critically analyze written reports of quantitative nursing research studies.

NS A323 | Qualitative Approaches to Nursing Research | 1 CR
Contact Hours: 1 + 0
Prerequisites: NS A300 with minimum grade of C and NS A303 with minimum grade of C and NS A304 with minimum grade of C and NS A318 with minimum grade of C and NS A309 with minimum grade of C and NS A321 with minimum grade of C.
Registration Restrictions: Meet the prerequisites, and a statistics course with a minimum grade of C. For RN students: RN licensure in the State of Alaska, a statistics course with a minimum grade of C, and NS A321 with a minimum grade of C.
Introduction to qualitative approaches to research knowledge and methods in nursing. Content related to the logic of qualitative research as well as major types of qualitative research such as phenomenology, grounded theory, and ethnography. Includes content related to data collection, data management, data analysis, and the process of drawing and verifying conclusions. Emphasis on developing the ability to critically analyze written reports of qualitative nursing research studies.

NS A402 | 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.
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 A402L | 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.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS A401.

NS A402 | Health II: Nursing Therapeutics | 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Grade of C or better in all required NS 300-level courses.
Corequisite: NS A402L and NS A402S.
Offered Fall and Spring Semesters.
Extends the concepts in Health I: Nursing Therapeutics to encompass small groups, communities, and populations. Therapeutics focus on the role of the professional nurse in population-based care utilizing health promotion, health protection, and illness prevention strategies.

NS A402L | Health I: Nursing Therapeutics Laboratory | 3 CR
Contact Hours: 0 + 9
Registration Restrictions: Grade of C or better in all required NS 300-level courses.
Corequisite: NS A402 and NS A402S.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS A402.

NS A402S | Health II: Nursing Therapeutics Seminar | 1 CR
Contact Hours: 0 + 6
Registration Restrictions: Grade of C or better in all required NS 300-level courses.
Corequisite: NS A402 and NS A402L.
Offered Fall and Spring Semesters.
Seminars introduce student learning in NS A402.

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.
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.
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.
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.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS 404.

NS A405 | Psychiatric/Mental Health Nursing | 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Grade of C or better in all required 300-level nursing courses.
Corequisite: NS A405L.
Theory and application of mental health nursing principles to the care of clients with psychiatric disorders and developmental and situational crises. Explores community resources and other support systems in the promotion of community mental health.
NS A405L  Psychiatric/Mental Health Nursing Lab  2 CR
Contact Hours: 0 + 6
Registration Restrictions: Grade of C or better in all required 300 level nursing courses.
Corequisite: NS A405.
Grade Mode: Pass/No Pass.
Special Fees.
Clinical experience to build skills and reinforce student learning in NS A405.

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.
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.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS A406.

NS A414  Ethical, Legal and Professional Issues In Nursing  4 CR
Contact Hours: 4 + 0
Registration Restrictions: RN licensure in Alaska.
Special Fees.
Offered Fall Semesters.
Explores the development of professional nursing practice with emphasis on inherent ethical dilemmas and legal implications encountered in a variety of roles. Social trends likely to influence future practice are examined. Ethical decision making processes are applied to clinical problems.

NS A415  Nursing Management  3 CR
Contact Hours: 3 + 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.
Offered Fall and Spring Semesters.
Theories of management and organization 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.

NS A416  Concentration in Clinical Nursing  .5 CR
Contact Hours: 1 + 0
Prerequisites: NS A402 with minimum grade of C and NS A402S with minimum grade of C and NS A406 with minimum grade of C and NS A402L with minimum grade of P and NS A406L with minimum grade of P.
Corequisite: NS A416L.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall and Spring Semesters.
Integration and synthesis of knowledge and skill competencies basic to professional nursing practice. Emphasis is on adjustments to the realities of practice situations. Clinical sites are selected in relation to individual student interests and learning needs.

NS A416L  Concentration in Clinical Nursing Lab  3.5 CR
Contact Hours: 0 + 10.5
Prerequisites: NS A402 with minimum grade of C and NS A402S with minimum grade of C and NS A406 with minimum grade of C and NS A402L with minimum grade of P and NS A406L with minimum grade of P.
Corequisite: NS A416.
Grade Mode: Pass/No Pass.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS A416.

NS A417  Management in Nursing  3 CR
Contact Hours: 3 + 0
Registration Restrictions: RN licensure in Alaska.
Special Fees.
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 A421  Sexual Assault Response Team Certification  4 CR
Contact Hours: 3 + 3
Registration Restrictions: Current RN licensure in State of Alaska.
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 profiling, 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.
Prepares experienced, registered nurses for entry-level practice in critical care and provides opportunities to analyze past and current clinical situations and adopt 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 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 adopt 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.

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.

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.

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.

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.

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.

NS A434  Health Care of the Elderly  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.

NS A435  Disaster Management in 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.

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.

NS A437  Nursing Informatics  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.
Corequisite: NS A415.
Special Fees.

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.

NS A601  Advanced Pathophysiology  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate standing or faculty permission required.
Special Fees.

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.

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.

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.

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COURSE DESCRIPTIONS

NS A621 Knowledge Development for Advanced Nursing Practice 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Graduate standing or faculty permission required. Special Fees.
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.
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 morbidity and mortality 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. Special Fees.
Offered as Demand Warrants.
An introduction to the principles and methods of epidemiologic investigations and their application in the health sciences. Major topics include etiological factors of disease and injury, the distribution of health problems within populations, levels of prevention, and the concept of risk. The design of retrospective, cross-sectional, and prospective studies are examined. Clinical applications within nursing, medicine, pharmacy, social work, nutrition and health care administration are emphasized.

NS A642 Professional Nursing in Perspective 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing. Special Fees.
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: Complementary/Alternative Models 3 CR
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. 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.
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.
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. 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. 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 CR
Contact Hours: 2 + 8
Offered Fall Semesters.
Beginning preparation for primary care. Includes advanced history and physical assessment skills for clients of all ages. Clinical emphasis includes acquisition of skills and diagnostic evaluation methods required for management of clients.
NS A661 Family Nurse Practitioner II  5 CR
Contact Hours: 2 + 12
Prerequisites: NS A660.
Special Fees.
Offered Spring Semesters.
Builds on and allows for utilization of advanced practice skills learned in NS reproductive system, respiratory tract, and the musculoskeletal system. Includes management of the obstetrical client. Emphasis on care of clients through the life span.

NS A662 Family Nurse Practitioner III  6 CR
Contact Hours: 2 + 16
Prerequisites: NS A661.
Special Fees.
Offered Fall Semesters.

NS A663 Family Nurse Practitioner IV  5 CR
Contact Hours: 2 + 12
Prerequisites: NS A662.
Offered Spring Semesters.
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: Admission to the Psychiatric Nursing track.
Special Fees.
Offered as Demand Warrants.
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.
Special Fees.
Offered as Demand Warrants.
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.
Offered as Demand Warrants.
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.
Special Fees.
Offered as Demand Warrants.
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 A675 Pathophysiological Perspectives of Psychosocial Disabilities  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Analysis of pathophysiological processes influencing psychosocial behavior in response to endogenous and exogenous factors. Research and theory of genetic, neuroendocrine, and neuroimmunologic mechanisms in psychosocial disorders such as schizophrenia, mood disorders, and anxiety disorders are examined. Critical analysis of nursing therapeutics and biophysical therapeutic modalities used in the care of persons with psychosocial disabilities.

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.
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).
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).
Grade Mode: Pass/No Pass.
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].
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.
Grade Mode: Pass/No Pass.
Special Fees.
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

http://nursing.uaa.alaska.edu/son/

Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 103, 786-4550

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 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 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

http://nursing.uaa.alaska.edu/son/
Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 110, 786-4582

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 (ENGIL A111 with minimum grade of C or concurrent enrollment) and (PSY A150 with minimum grade of C or concurrent enrollment).
Corequisite: NURS A120L
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 expected 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 (ENGIL 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.
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 ENGIL 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 A122 with minimum grade of C or concurrent enrollment) and (ENGIL A111 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.
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 A122 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.
Offered Spring Semesters.
Provides laboratory and clinical experiences to reinforce student learning in NURS A125.

NURS A150 Nursing Role Transition for LPN 8 CR
Contact Hours: 8 + 0
Prerequisites: ENGIL A111 and BIOL A111 and PSY A150.
Registration Restrictions: Admission to A.A.S. Nursing Program.
Special Fees.
Offered as Demand Warrants.
A transition course for experienced LPNs. Nursing process, communication principles, and a critical thinking approach are emphasized as students learn about the effect of health disruptions on adults as they move along the health-illness continuum. Focuses on health disruptions which respond predictably to well established therapeutic regimens. Students have the opportunity to demonstrate competence in critical elements of patient care delivery.

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 (ENGIL 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.
Offered Spring Semesters.
Introduces 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.
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 antepartum, 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.
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.
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.
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.
Offered Fall Semesters.
Provides laboratory and clinical experiences to reinforce student learning in NURS A222.

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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.
Offered Spring Semesters.

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 A121 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.
Offered Spring Semesters.

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 A250 and NURS A255.
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 A225L, NURS A250 and NURS A255.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Spring Semesters.

NURS A250L  Psychiatric Nursing Lab  2 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 A225L, NURS A250 and NURS A255.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Spring Semesters.

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 A225 with minimum grade of C and NURS A225L with minimum grade of C and NURS A222 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.
Offered Spring Semesters.

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 A225 with minimum grade of C and NURS A225L 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.
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.

OCCUPATIONAL SAFETY & HEALTH - OSH

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 A105  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.
# COURSE DESCRIPTIONS

## 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

http://www.chpp.alaska.edu

Offered through the College of Business & Public Policy

**Business Education Building (BEB), Room 309, 786-4100**

Each student taking any ACCT, BA, CIOS, ECON, 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 extended sites.

## PADM A602  Seminar in Public Management  3 CR
**Contact Hours:** 3 + 0
Registration Restrictions: Faculty permission.
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.
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.
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 Fees.
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.
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.
Offered Fall Semesters.
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 A620  Internship in Public Administration/Policy  1-3 CR
**Contact Hours:** 0 + 4-12
Registration Restrictions: Faculty permission.
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.
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.
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.
COURSE DESCRIPTIONS

PA DM A632 Policy Analysis 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission. PADM A604 recommended. 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.

PA DM 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.

PA DM 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. 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.

PA DM A671 Selected Topics in Public Administration 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Faculty permission.
Analysis of selected public administration issues. Topics will be announced in the published class schedule.

PARALEGAL STUDIES - PARL

http://www.uaa.alaska.edu/just/

Offered through the College of Health, Education & Social Welfare
College of Arts & Sciences Building (CAS), Room 306, 786-1810

PARL A101 Introduction to Law 3 CR
Contact Hours: 3 + 0
Course Attributes: 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
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.
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 Ethics and Paralegals 1 CR
Contact Hours: 1 + 0
Prerequisites: PARL A101 and PARL A215.
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 role and opinions directed at the practitioners of law in Alaska. Discussion of regulation by bar associations and attorneys.

PARL A238 Civil Procedure 3 CR
Contact Hours: 3 + 0
Prerequisites: PARL A101.
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.

PARL A256 Legal Research I 3 CR
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.

PARL A340 Family Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110 or PARL A101.
Crosslisted with: JUST A340.

PARL A352 Substantive Criminal Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110 or PARL A101.
Crosslisted with: JUST A352.
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.

PARL A354 Criminal Procedure 3 CR
Contact Hours: 3 + 0
Prerequisites: PARL A101 or JUST A110.
Crosslisted with: JUST A354.
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.

PARL A362 Commercial Law 3 CR
Contact Hours: 3 + 0
Prerequisites: PARL A101.
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.

PARL A375 Litigation 3 CR
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.

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www.uaa.alaska.edu
PARL A456 Advanced Legal Analysis and Writing 4 CR
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.
Prerequisite: Requires knowledge of basic legal research techniques and the uniform system of citation, and use of computerized legal research.
Offered Fall Semesters.
Introduces key concepts related to lifetime personal fitness. Presents a variety of exercise formats for total fitness. Combines lecture with lab sessions.

PARL A470 Law of Government Regulation 3 CR
Contact Hours: 3 + 0
Prerequisites: PARL A101.
Offered Fall Semesters.
Administered 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.

PHYSICAL EDUCATION - PE
http://www.uaa.alaska.edu/peandrec/
Offered through the Community & Technical College
Eugene Short Building (ESB), Room 125, 786-4083
PE A102 Beginning Roller-Hockey 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing roller-hockey. Applies basic principles of roller-hockey through active participation using in-line skates.

PE A103 Beginning Basketball 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing basketball. Applies basic principles of basketball through active participation.

PE A104 Beginning Soccer 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing soccer. Applies basic principles of soccer through active participation.

PE A105 Beginning Hockey 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing hockey. Applies basic principles of hockey through active participation.

PE A106 Beginning Volleyball 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing volleyball. Applies basic principles of volleyball through active participation.

PE A107 Beginning Tennis 1 CR
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.

PE A108 Beginning Racquetball 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing racquetball. Applies basic principles of racquetball through active participation.

PE A109 Beginning In-Line Skating 1 CR
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.

PE A110 Beginning Ice Skating 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with ice skating. Applies basic principles of skating through active participation.

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 A114 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 A115 Beginning Softball 1 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 A116 Beginning Volleyball 1 CR
Contact Hours: 1 + 2
Special Fees.
Introduces the basic skills and knowledge associated with playing volleyball. Applies basic principles of volleyball through active participation.

PE A117 Beginning Weight Training 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces resistance exercises to strengthen and condition major muscle groups.

PE A118 Beginning Yoga 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing yoga. Applies basic principles of yoga through active participation.

PE A119 Beginning Hockey 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing hockey. Applies basic principles of hockey through active participation.

PE A120 Beginning Aerobics 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing aerobics. Applies basic principles of aerobics through active participation.

PE A121 Beginning Muscle Fitness 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing muscle fitness. Applies basic principles of muscle fitness through active participation.

PE A122 Beginning Cross Training 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing cross training. Applies basic principles of cross training through active participation.

PE A123 Beginning Shape Up with Weights 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing shape up with weights. Applies basic principles of shape up with weights through active participation.
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.
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 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 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 A132   Beginning Tai Chi  1 CR
Contact Hours:  .5 + 1
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 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 A140   Introduction to Fitness Leadership  3 CR
Contact Hours:  3 + 0
Special Fees.
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 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 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 A202   Intermediate Roller-Hockey  1 CR
Contact Hours:  .5 + 1
Prerequisites: PE A102.
Special Fees.
Develops intermediate level in-line skating techniques and roller-hockey skills. Applies defensive and offensive strategies and tactics.

PE A203   Intermediate Basketball  1 CR
Contact Hours:  .5 + 1
Prerequisites: PE A103.
Special Fees.
Introduces intermediate level power skating techniques and hockey skills. Applies defensive and offensive strategies of basketball through active participation.

PE A204   Intermediate Soccer  1 CR
Contact Hours:  .5 + 1
Prerequisites: PE A104.
Special Fees.
Introduces intermediate level power skating techniques and hockey skills. Applies defensive and offensive strategies of soccer through active participation.

PE A205   Intermediate Hockey  1 CR
Contact Hours:  .5 + 1
Prerequisites: PE A105.
Special Fees.
Introduces intermediate level power skating techniques and hockey skills. Applies defensive and offensive strategies of tennis through active participation.

PE A206   Intermediate Volleyball  1 CR
Contact Hours:  .5 + 1
Prerequisites: PE A106.
Special Fees.
Introduces intermediate level power skating techniques and hockey skills. Applies defensive and offensive strategies of tennis through active participation.

PE A207   Intermediate Tennis  1 CR
Contact Hours:  .5 + 1
Prerequisites: PE A107.
Special Fees.
Introduces intermediate level power skating techniques and hockey skills. Applies defensive and offensive strategies of tennis through active participation.

PE A208   Intermediate Racquetball  1 CR
Contact Hours:  .5 + 1
Prerequisites: PE A108.
Special Fees.
Introduces intermediate level power skating techniques and hockey skills. Applies defensive and offensive strategies of tennis through active participation.

PE A209   Intermediate In-Line Skating  1 CR
Contact Hours:  .5 + 1
Prerequisites: PE A109.
Special Fees.
Introduces intermediate level power skating techniques and hockey skills. Applies defensive and offensive strategies of tennis through active participation.
COURSE DESCRIPTIONS

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  Power Aqua Aerobics  1 CR
Contact Hours: .5 + 1
Prerequisites: PE A123.
Special Fees.
Presents key concepts related to lifetime personal fitness. Applies advanced level water exercise routines for improved cardiorespiratory fitness, flexibility, and muscular endurance. A wide variety of aquatic 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 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.
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 A242  Techniques in Personal Training II  2 CR
Contact Hours: 1 + 2
Prerequisites: PE A142.
Special Fees.
Presents 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 A243  Techniques in Aqua Fitness Instruction  2 CR
Contact Hours: 1 + 2
Prerequisites: PE A143.
Special Fees.
Presents principles of exercise in water, pool safety, deck versus water instruction, requirements of a water exercise instructor, designing a water exercise class, and use of equipment. Conducted in a classroom and lab setting for hands-on experience.

PE A244  Emergency Water Safety and Lifeguarding  2 CR
Contact Hours: 1 + 2
Prerequisites: PE A144.
Special Fees.
Presents principles of exercise in water, pool safety, deck versus water instruction, requirements of a water exercise instructor, designing a water exercise class, and use of equipment. Conducted in a classroom and lab setting for hands-on experience.

PE A246  Water Safety Instructor Training  3 CR
Contact Hours: 2 + 2
Prerequisites: PE A145.
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.
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 A251  Advanced In-Line Skating  1 CR
Contact Hours: .5 + 1
Prerequisites: PE A209.
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 A262 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 Hockey 1 CR
Contact Hours: .5 + 1
Prerequisites: PE A205.
- 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 Advanced Strength and Power Training 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 A260 Citizenship Through Sports 1 CR
Contact Hours: 1 + 0
Prerequisites: PE A110.
- 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
- 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.
- 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
Prerequisites: PE A205.
- 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.

PETROLEUM TECHNOLOGY - PETR
Offered through Kenai Peninsula College
34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

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.
  Explores basic heat and material 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 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.

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COURSE DESCRIPTIONS

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 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 A231 Production Plant Operations 3 CR  
Contact Hours: 2 + 3  
Prerequisites: PETR A105 and PETR A140.  
Offered only at Kenai Peninsula College.  
Introduces operating equipment, and start-up and shut-down procedures using process simulation. Requires interpretation of typical flow sheets.  

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.  

PETR A270 Industrial Mechanical Equipment 3 CR  
Contact Hours: 2 + 2  
Offered only at Kenai Peninsula College.  
Introduces basics of piping systems and components, pump design and alignment, compressors and pneumatic motors, steam generation and steam turbines, hydraulic components and circuits, and gas combustion turbines. Includes hands-on disassembly and assembly of pumps, valves, compressors, and turbines. Also assembling of hydraulic circuits and associated problems.  

PHILOSOPHY - PHIL  
http://cwolf.uaa.alaska.edu/~ayphi/  
Offered through the College of Arts and Sciences  
Classroom Building K (K), Room 219, 786-4455  
PHIL A101 Introduction to Logic 3 CR  
Contact Hours: 3 + 0  
Course Attributes: 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: 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: 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: 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: (ENGL A111 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: 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 value uses 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: 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: 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.
This course offers 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.
Student research credit for independent research. The 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.

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PHYSICS - PHYS

http://local.uaa.alaska.edu/~afjtp/physics.html

Offered through the College of Arts and Sciences
Engineering Building (ENGR), Room 339, 786-1238

PHYS A100  Concepts of Physics  3 CR
Contact Hours:  3 + 0
Prerequisites: MATH A105.
Course Attributes: 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 A109  Fundamentals of Meteorology  3 CR
Contact Hours:  3 + 0
Registration Restrictions: High school algebra.
Crosslisted with: GEOG A109.
Introduces meteorology for non-specialists.

PHYS A110  Physics for Technicians  4 CR
Contact Hours:  3 + 3
Prerequisites: MATH A055.
Registration Restrictions: Aviation maintenance technology students must obtain a signature from the AMT faculty advisor/chaiperson to register for this course. Special Fees.
Special Note: Designed to meet physics requirements of several industrial and career related programs, but primarily the AMT Program.

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: 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: GER Natural Sciences w/ Lab.
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: 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: GER Natural Sciences w/ Lab.
Special Fees.
Introductory physics laboratory, with experiments in thermodynamics, electricity and magnetism, waves, and optics.

PHYS A211 General Physics I 3 CR
Contact Hours: 3 + 0
Prerequisites: PHYS A123 and MATH A200 and (MATH A201 or concurrent enrollment).
Course Attributes: 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 or concurrent enrollment.
Course Attributes: 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: PHYS A124 and PHYS A211 and MATH A201 and (MATH A202 or concurrent enrollment).
Course Attributes: 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 or concurrent enrollment.
Course Attributes: 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.

PARAMEDICAL TECHNOLOGY - PMED

PHYS A303 Modern Physics 3 CR

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 monthly courses in emergency medical sciences. 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 A195 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 paramedical knowledge and techniques with evaluation of applied skills.

PREPARATORY ENGLISH - PRPE

PHYS A303 Modern Physics 3 CR

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 a 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PRPE A051</td>
<td>ESL Basic Reading and Writing</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>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.</td>
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<tr>
<td>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.</td>
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<tr>
<td>PRPE A052</td>
<td>Campus Orientation</td>
<td>1 CR</td>
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<td>Contact Hours: 1 + 0</td>
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<tr>
<td>Prerequisites: ASSET Reading Skills with score of 27.</td>
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<td>Grade Mode: Pass/No Pass.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Introduces basic study skills such as goal setting, time management, notetaking, textbook reading, memory techniques, stress management, and learning styles.</td>
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<tr>
<td>PRPE A054</td>
<td>Classroom Success</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours: 1 + 0</td>
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<tr>
<td>Grade Mode: Pass/No Pass.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>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.</td>
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<tr>
<td>PRPE A060</td>
<td>Slingerland I</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Grade Mode: Pass/No Pass.</td>
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<td>Special Fees.</td>
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<tr>
<td>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.</td>
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<tr>
<td>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.</td>
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<tr>
<td>PRPE A062</td>
<td>Multi-Sensory Reading</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Special Note: These course methods are not effective for students with a visual or hearing impairment.</td>
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<tr>
<td>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.</td>
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<tr>
<td>PRPE A064</td>
<td>Multi-Sensory Grammar/Writing</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Special Note: These course methods are not effective for students with a visual or hearing impairment.</td>
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<tr>
<td>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.</td>
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<tr>
<td>PRPE A066</td>
<td>Slingerland II</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Registration Restrictions: PRPE A060 with minimum grade of C or referral based on Slingerland Screening Test.</td>
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<tr>
<td>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.</td>
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<tr>
<td>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.</td>
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<tr>
<td>PRPE A072</td>
<td>Individualized Reading Lab</td>
<td>1-3 CR</td>
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<tr>
<td>Contact Hours: 0 + 2-6</td>
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<tr>
<td>Prerequisites: ASSET Reading Skills with score of 30.</td>
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<tr>
<td>Grade Mode: Pass/No Pass.</td>
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<td>Special Fees.</td>
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<tr>
<td>Special Note: May be repeated for a maximum of 3 credits.</td>
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<tr>
<td>Provides individualized instruction in basic reading skills, text comprehension, vocabulary development, dictionary skills, and readjustment of reading rate, in an open lab format.</td>
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<tr>
<td>PRPE A074</td>
<td>Vocabulary Skill Building</td>
<td>1-3 CR</td>
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<tr>
<td>Contact Hours: 1-3 + 0</td>
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<tr>
<td>Prerequisites: ASSET Reading Skills with score of 30.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>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.</td>
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<tr>
<td>PRPE A076</td>
<td>Reading Strategies</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: ASSET Reading Skills with score of 34.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Provides basic strategies for reading comprehension, vocabulary development, and textbook skills necessary for success in freshman college classes.</td>
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<tr>
<td>PRPE A082</td>
<td>Refresher Writing Lab</td>
<td>1-3 CR</td>
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<tr>
<td>Contact Hours: .5-1.5 + 1-3</td>
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<tr>
<td>Prerequisites: ASSET Writing Skills with score of 30.</td>
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<tr>
<td>Grade Mode: Pass/No Pass.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Special Note: May be repeated for a maximum of 6 credits.</td>
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<tr>
<td>Provides individualized instruction in basic writing skills for school, work, personal, or creative development.</td>
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<tr>
<td>PRPE A084</td>
<td>Grammar and Sentence Skills</td>
<td>1-3 CR</td>
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<td>Contact Hours: 1-3 + 0</td>
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<tr>
<td>Prerequisites: ASSET Writing Skills with score of 30.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Special Note: May be repeated for a maximum of 6 credits.</td>
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<tr>
<td>Reviews the basics of effective sentences in Standard American English for college writing.</td>
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<tr>
<td>PRPE A086</td>
<td>Writing Strategies</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: [ASSET Writing Skills with score of 35 and ASSET Reading Skills with score of 34] and PRPE A084.</td>
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<td>Registration Restrictions: Meet prerequisite or minimum score on English placement test.</td>
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<tr>
<td>Special Fees.</td>
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<td>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.</td>
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<tr>
<td>PRPE A107</td>
<td>Basic College Reading</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: PRPE A076 with minimum grade of C or ASSET Reading Skills with score of 39.</td>
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<td>Special Fees.</td>
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<tr>
<td>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.</td>
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<tr>
<td>PRPE A108</td>
<td>Basic College Writing</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: [ASSET Writing Skills with score of 40 and ASSET Reading Skills with score of 39] and PRPE A086.</td>
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<td>Special Fees.</td>
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<tr>
<td>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.</td>
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<tr>
<td>PROCESS TECHNOLOGY - PRT</td>
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<td>Offered through Kenai Peninsula College</td>
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<tr>
<td>34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300</td>
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<tr>
<td>PRT A101</td>
<td>Introduction to Process Technology</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Introduction to process operations in industry through an overview of general information, processes, procedures, and equipment.</td>
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<tr>
<td>PRT A110</td>
<td>Introduction to Occupational Safety, Health, and Environmental Awareness</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>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.</td>
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</tbody>
</table>
Chapter 11  Page 408

**COURSE DESCRIPTIONS**

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.  
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: PRT A140 with minimum grade of C or PRT A140 with minimum grade of C.  
Crosslisted with: PETR A140.  
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 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, turnaround, 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.

**POLITICAL SCIENCE - PS**

*Offered through the College of Arts and Sciences*  
*College of Arts & Sciences Building (CAS), Room 367, 786-4897*

PS A101  Introduction to American Government  3 CR  
Contact Hours: 3 + 0  
Course Attributes: 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: 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 A110  Parliamentary Procedures  1 CR  
Contact Hours: 1 + 0  
Crosslisted with: AKNS A110.  
Principles, logic, and application of parliamentary procedure in formal meeting context. Emphasis on the use of parliamentary procedure in formal meeting format as a vehicle to encourage participation on the one hand and to exercise control on the other. Focus on both governmental and non-governmental context.

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: PRT A101 or PETR A140.  
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: 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 + 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.

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: 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: GER Humanities Requirement.  
Political philosophy from Plato to Marsilius, with emphasis on natural right.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>PS A333</td>
<td>History of Political Philosophy II: Modern</td>
<td>3 CR</td>
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<td>Course Attributes: GER Humanities Requirement.</td>
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<td>Political philosophy from Machiavelli to Nietzsche, with emphasis</td>
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<td></td>
<td>on liberalism and its critics.</td>
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<tr>
<td>PS A341</td>
<td>Congress</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: PS A101 or PS A102.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>PS A342</td>
<td>The American Presidency</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: PS A101 or PS A102.</td>
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<tr>
<td></td>
<td>The evolution of the executive branch of United States government. Focuses on presidential power, relations with Congress, presidential selection, contemporary policymaking, and the Constitution.</td>
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<tr>
<td>PS A343</td>
<td>Constitutional Law</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: PS A101 or JUST A110.</td>
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<td></td>
<td>Crosslisted with: JUST A343.</td>
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<td>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.</td>
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<tr>
<td>PS A344</td>
<td>State and Local Politics</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: PS A101</td>
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<td></td>
<td>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.</td>
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<tr>
<td>PS A345</td>
<td>Alaska Government and Politics</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: PS A101</td>
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<td>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.</td>
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<tr>
<td>PS A346</td>
<td>Alaska Native Politics</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: PS A101</td>
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<tr>
<td>PS A347</td>
<td>Public Administration</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: PS A101 or PS A102.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>PS A348</td>
<td>Public Policy</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: PS A101 or PS A102.</td>
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<td>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.</td>
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<tr>
<td>PS A351</td>
<td>Political Sociology</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Crosslisted with: SOC A351.</td>
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<td></td>
<td>Course Attributes: 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.</td>
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<tr>
<td>PS A353</td>
<td>Political Behavior, Participation, and Democracy</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: PS A101 or PS A102.</td>
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<td>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.</td>
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<tr>
<td>PS A361</td>
<td>Social Science Research Methods</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: PS A102 or SOC A101.</td>
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<td></td>
<td>Crosslisted with: SOC A361.</td>
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<td>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.</td>
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<tr>
<td>PS A411</td>
<td>Tribes, Nations, and Peoples</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>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.</td>
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<td>PS A424</td>
<td>International Law and Organization</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: PS A101 or PS A102.</td>
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<td>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.</td>
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<tr>
<td>PS A432</td>
<td>Contemporary Political Theory</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: PS A101</td>
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<td>Examines the writings of the leading political thinkers in the twentieth century and beyond. Focus on the influence of contemporary theory on the conduct of politics in and among nations on one level, and the political relationships between individuals and groups on another.</td>
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<tr>
<td>PS A453</td>
<td>Organization Theory</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: PS A101</td>
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<td>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.</td>
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<tr>
<td>PS A490</td>
<td>Studies in Politics</td>
<td>1-3 CR</td>
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<td>Contact Hours: 1-3 + 0</td>
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<td>Prerequisites: PS A101 or PS A102.</td>
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<td>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.</td>
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<td>PS A492</td>
<td>Senior Seminar in Politics</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: Senior standing.</td>
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<td>Examination of a single major problem in the study of politics. The capstone course required of Political Science majors.</td>
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<td>PS A495</td>
<td>Internship in Political Science</td>
<td>1-3 CR</td>
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<td>Contact Hours: 1-3 + 0</td>
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<td>Prerequisites: PS A101 or PS A102.</td>
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<td>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.</td>
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</tbody>
</table>
COURSE DESCRIPTIONS

PSY A690  Studies in Politics  1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: PS A101 or PS A102.
Stacked with: PS A490.
Special Note: Subtitle varies; may be repeated with different subtitles.

An examination of an aspect of politics from the perspective of a major field in the political science discipline (comparative politics, international relations, political philosophy, American politics, and political behavior). Field and subject studied will vary from year to year.

PSYCHOLOGY - PSY

http://www.uaa.alaska.edu/psych/
Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 214, 786-1711

PSY A100  Understanding People  3 CR
Contact Hours: 3 + 0
Special Note: Does not satisfy BA or BS in Psychology degree requirements.
Entry-level non-technical introduction to psychology and causes of human behavior. Useful for re-entering college students, non-majors, and international students seeking to improve study skills or English usage.

PSY A111  General Psychology  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.
Introduces psychology through presentation of outstanding research and theories. Includes physiological, developmental, abnormal perception, motivation, learning, and personality.

PSY A112  Psychology Short Courses  1 CR
Contact Hours: 1 + 0
Special Fees.
Special Note: May be repeated for a maximum of 3 credits.
Presents topics in general psychology. Specific topics to be announced.

PSY A120  Parenting: More than Discipline  3 CR
Contact Hours: 3 + 0
Crosslisted with: ED A120.
Introduces parenting and how it differs from discipline. Discusses three parenting styles. Emphasizes nurturing, communicating, setting limits, and making maturity demands.

PSY A130  Crisis Line/Shelter Advocacy  1 CR
Contact Hours: 1 + 0
Offered only at Kodiak College.
Basic listening skills and crisis intervention techniques. Overview of domestic violence, adult and child sexual assault, legal alternatives, and community resources.

PSY A135  Domestic Violence and Sexual Assault Advocacy Training  1 CR
Contact Hours: 1 + 0
Offered only at Kodiak College.
In-depth review of fundamentals of domestic violence and sexual assault advocacy with specific emphasis on law enforcement, legal, medical, and social services. Focuses on regulation and program standards, dynamics of advocacy case work, development of techniques of effective interaction with clients, and working knowledge of community resources.

PSY A143  Death and Dying  3 CR
Contact Hours: 3 + 0
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.

PSY A150  Life Span Development  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
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.

PSY A153  Human Relations  3 CR
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.

PSY A168  Human Sexuality  3 CR
Contact Hours: 3 + 0
Introduces topics of human sexual functioning including physiology, psychology, sociology, philosophy, and morality of human sexual practices and love.

PSY A170  Rational Living  1 CR
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.

PSY A203  Assertiveness Training  3 CR
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.

PSY A230  Psychology of Adjustment  3 CR
Contact Hours: 3 + 0
Registration Restrictions: One social science course.
Study of sources and problems of stress. Examines self-esteem and interpersonal relationships from perspective of personal coping skills. Emphasizes taking control of one’s life.

PSY A245  Child Development  3 CR
Contact Hours: 3 + 0
Registration Restrictions: One social science course.
Study of physical, emotional, cognitive, and social aspects of a child’s development from prenatal period to beginning of adolescence. Includes theoretical view of development and effects of genetics, environment, and socialization.

PSY A245L  Child Development Laboratory  1 CR
Contact Hours: 0 + 3
Prerequisites: (PSY A245 or concurrent enrollment).
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.

PSY A260  Statistics for Psychology  3 CR
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.

PSY A261  Research Methods in Psychology  4 CR
Contact Hours: 3 + 3
Prerequisites: PSY A111.
Special Fees.
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.
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 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 A260 and PSY A261.
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.
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.
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 A368 Personality 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 or PSY A150.
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].
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.
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 A460  Mental Health Issues for American Indians and Alaskan Natives  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Senior standing and 6 credits of psychology.
Stacked with: PSY A660.
A survey course designed to familiarize students with contemporary health and
mental health issues among American Indians and Alaska Natives. Specific health
and mental health problems are described and examined in terms of
epidemiological trends and intervention programs designed to ameliorate such
conditions. Policy issues are examined with respect to emerging trends in Indian
and Native administration of health delivery systems.

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 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.
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.
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.
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 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.  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 A630  Advanced Psychotherapy Skills  3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A622 and PSY A623.
Registration Restrictions: Admission to MS clinical psychology program.
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.
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: Must be applied toward the high 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.

CONTACT: Office of Graduate Studies, 8200, 907-786-1106, Ext. 3251, gradstu@uaa.alaska.edu
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.

PSY A660 Mental Health Issues 3 CR for American Indians and Alaska Natives
Contact Hours: 3 + 0
Registration Restrictions: Post-Baccalaureate Degree.
Stacked with: PSY A460.
Special Note: Lectures will be concurrent with PSY A460. Graduate students will be required to do a comprehensive literature search on a health or mental health issue for American Indians and Alaska Natives, to summarize their findings in an extensive paper on the chosen topic, and to make a presentation of their findings in class.

A survey course designed to familiarize students with contemporary health and mental health issues among American Indians and Alaska Natives. Specific health and mental health problems are described and examined in terms of epidemiological trends and intervention programs designed to ameliorate such conditions. Policy issues are examined with respect to emerging trends in Indian and Native administration of health delivery systems.

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.
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.
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 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.
Offered Spring Semesters.

Supervised psychotherapy with clients in a variety of settings throughout the community.

PSY A680 Advanced Issues in Addiction Studies 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: [PSY A350 or HS A350] and PSY A623.
Registration Restrictions: BA or BS degree.
Stacked with: PSY/HS A480.
Special Note: PSY A480 may be repeated for credit with a change of subtitle.

May receive credit for both PSY/HS A480 and PSY A680 with different subtitles.
Offered as Demand Warrants.

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. Manifestation of the topic in clinical settings is emphasized.

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 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.
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.
Offered Fall Semesters.

Provides 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.
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.
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.

REFRIGERATION AND HEATING - RH
Offered through Matanuska-Susitna College
P.O. Box 2889, Palmer, Alaska, 99645, (907) 745-9715

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, ratio 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 A106 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 A120 Motors and Controls 3 CR
Contact Hours: 3 + 0
Crosslisted with: AGRI A133 and ET A120.
Offered only at Matanuska-Susitna College.
Provides understanding of principles of operation of motors, generators, transformers and motor control apparatus. Study of definitions, symbols, diagrams, and illustrations gives a sound background in the language and basic principles associated with electricity, electrical equipment, electrical apparatus and electrical code principles.

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 A126.
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 overhead system.

RH A203 HVAC/R Basic Controls 3 CR
Contact Hours: 2 + 2
Prerequisites: RH A126.
Offered only at Matanuska-Susitna College.

- Introduces concepts and components of basic residential and commercial heating and cooling control applications. Associated lab exercises are designed to provide an understanding of the operation, troubleshooting, and repair of basic system components. Explores primary burner controls for forced air and hydronic control systems.

RH A209 Codes for HVAC/R 2 CR
Contact Hours: 2 + 0
Prerequisites: RH A126.
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
Prerequisites: RH A121.
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 preformed on training equipment for each of these system types.

RH A230 Selected Topics in Refrigeration and Heating 1 CR
Contact Hours: 1 + 0
Offered only at Matanuska-Susitna College.

- Variety of topics of interest in heating, ventilation, air conditioning and refrigeration (HVACR) such as computer modeling, economic analysis, performance optimization, combustion efficiency analysis, etc.

RH A232 HVAC/R Sheet Metal 3 CR
Contact Hours: 2 + 2
Prerequisites: RH A122.
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.

RUSS - RUSS
http://cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030
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: GER Humanities Requirement.
Special Fees.

- 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: GER Humanities Requirement.
Offered only at extended colleges.


RUSS A102 Elementary Russian II 4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A101.
Course Attributes: GER Humanities Requirement.
Special Fees.

- 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: 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 A201.
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: 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: 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 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 A400A 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

http://local.uaa.alaska.edu/~aysoc/hmpage.html
Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 372, 786-1714

SOC A101 Introduction to Sociology 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
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, 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: GER Social Sciences Requirement.
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: GER Social Sciences Requirement.
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.
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: GER Social Sciences Requirement.
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.
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.
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 A275  Social Psychology  3 CR
Contact Hours:  3 + 0
Prerequisites: SOC A101 or PSY A111.
Offered Fall Semesters.
Examination of the effects of group interaction on individuals’ values, attitudes and behavior. Focuses on such topics as perception, interpersonal relationships, conformity, aggression and helping behavior. Emphasizes theory, research, and application.

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.
Analyze contemporary issues from a variety of social science perspectives.

SOC A307  Demography  3 CR
Contact Hours:  3 + 0
Prerequisites: SOC A101.
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.
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.
Offered Fall and Spring Semesters.
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 A324  Sexual, Marital and Family Lifestyles  3 CR
Contact Hours:  3 + 0
Prerequisites: SOC A101.
Course Attributes: GER Social Sciences Requirement.
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.
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.
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: GER Social Sciences Requirement.
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.
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.
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.
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.
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 A377  Men, Women and Change  3 CR
Contact Hours:  3 + 0
Prerequisites: SOC A101 or SOC A275.
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.
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.
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.
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.
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.
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  American Minority Groups  3 CR
Contact Hours:  3 + 0
Prerequisites: SOC A101.
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.
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 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.
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.
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.
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
http://www.uaa.alaska.edu/language
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030

SPAN A101  Elementary Spanish I  4 CR
Contact Hours:  4 + 0
Course Attributes: 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: 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: 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: 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: 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.
COURSE DESCRIPTIONS

SPAN A201E Intermediate Spanish I 3 CR
Contact Hours: 3 + 0
Prerequisites: SPAN A102E.
Course Attributes: 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: 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 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 A410 Structural Spanish Grammar 3 CR
Contact Hours: 3 + 0
Prerequisites: SPAN A302.
Special Note: Conducted in Spanish.
Study of Spanish structural grammar will move in a systematic progression beginning with the study of the article, the noun, the adjective, the verbal tenses, and will advance to the more complex parts of speech. A diagnostic-prescriptive approach, based on weekly oral and written exercises applicable to the study of the language at different levels of complexity, will be a major component.

SPAN A432 Studies in Literature and Culture (Selected Topics) 3 CR
Contact Hours: 3 + 0
Prerequisites: SPAN A302.
Special Note: May be repeated twice for credit with a change of subtitle.
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 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.
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.

Social Work - SWK

http://www.uaa.alaska.edu/socwork/
Offered through the College of Health, Education & Social Welfare
Gordon Hartlieb Building 780-0900

SWK A106 Introduction to Social Welfare 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Crosslisted with: HUMS A106.
Course Attributes: GER Social Sciences Requirement.
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 A243 Cultural Diversity and Community Services 3 CR
Contact Hours: 3 + 0
Course Attributes: 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 A306 Introduction to Social Work 3 CR
Contact Hours: 3 + 0
Prerequisites: SWK A106 or HUMS A106.
Introduces the profession of social work and its place in the social welfare institution. Special emphasis is placed upon client-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 client systems and social work’s role within these fields.

SWK A324 Social Work Research with Statistical Application 3 CR
Contact Hours: 3 + 0
Definition of client-centered research questions, selection of theoretical frameworks, development of a variety of research designs—including qualitative, quantitative and single subject, sampling, data collection, computer application of statistical analysis, and reporting. Students are expected to engage in a practice related research project and develop the skills necessary for utilization of existing research.

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 A360 Introduction to Generalist Social Work Practice 3 CR
Contact Hours: 1 + 6
Prerequisites: [SWK A106 or HUMS A106] and SWK A306.
Special Fees.
Overview, identification, understanding, and skill development for communication, problem solving, and planned change efforts in generalist social work practice with individuals. Emphasis on client strengths, person in environment context, professional values, self-awareness, diversity, and the development of a professional framework for interviewing, intervention, and change. A planned volunteer experience in a community agency is included in the laboratory experience.

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 A106 or HUMS A106] and SWK A306.
The 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, practica, and the job market.

SWK A409 Introduction to Child Welfare 3 CR
Contact Hours: 3 + 0
Study 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 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 A461A Social Work Practice I 3 CR
Contact Hours: 3 + 0
Prerequisites: SWK A360.
Registration Restrictions: Admission to BSW program.
Corequisite: SWK A461B.
Second of the three generalist social work practice courses. This course offers the learner an explication of the fundamentals for generalist social work practice, emphasizing values, skills, problem solving and planned change efforts with organizations, individuals and groups. Focus will be on understanding and implementing the planned change process as used by social workers within and with organizations, and when working in direct practice with individuals in need of professional intervention. The course includes an introduction to social work theory pertaining to group processes, which will be further developed in SWK 462B, the final course in the practice sequence.

SWK A461B Social Work Practicum I 6 CR
Contact Hours: 3 + 15
Prerequisites: SWK A360.
Registration Restrictions: Admission to BSW program.
Corequisite: SWK A461A.
Special Fees.
Special Note: Taken concurrently with SWK A461A; 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 A462A Social Work Practice II 3 CR
Contact Hours: 3 + 0
Prerequisites: SWK A461A and SWK A461B.
Corequisite: SWK A462B.
The final course in the practice sequence of the BSW program. This course explicates the fundamentals for generalist social work practice with emphasis on values, skills, problems solving and planned change efforts with groups, families and communities. Building on theory introduced in the two previous practice courses, SWK 462A will explore application of practice theory when working with groups, families, and communities. As the final and capstone course in the practice sequence the content of SWK 462A discusses empowerment and utilization of strengths perspectives when addressing social problems in a diverse society.
COURSE DESCRIPTIONS

SWK A62B  Social Work Practicum II  6 CR
Contact Hours: 3 + 15
Prerequisites: SWK A461A and SWK A461B.
Corequisite: SWK A462A.
Special Fees.
Special Note: Taken concurrently with SWK A462A; 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 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
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.
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 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. Experience in 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  General 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.  
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 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 multysystemic individual, family and group work. Special attention given to the biopsychosocial 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 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 A651 Supervisory Management in Social Work 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Special Fees.  
Provides 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 A655 Social Work Approaches with the Dually Diagnosed 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Special Fees.  
Probes research findings on persons who are mentally ill substance abusers. Provides techniques to assess and treat this population, with consideration of both the mental illness and alcohol and drug abuse.

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
Level Restriction: Must be Graduate - UAA level.
Registration Restrictions: Graduate standing at UAA.
Special Fees.
Focus on knowledge and skills related to leadership and decision-making for potential leaders of human service organizations. Emphasizes 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.
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.

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 + 2
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 delivery 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.
Special Fees.
Provides work experience, familiarization with technical operations and equipment and insight to management practices closely related with technology-rich career fields. Work for the internship is supervised by industry and faculty members.

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.
Prerequisites: ENGL A212.
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

http://webserver.cts.uaa.alaska.edu/theatre/
Offered through the College of Arts and Sciences
Arts Building (ARTS), Room 332, 786-1792
THR A111 Introduction to the Theatre 3 CR
Contact Hours: 3 + 0
Course Attributes: 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, physical and vocal awareness, and the Stanislavsky method of acting.

THR A124 Dance for the Musical Theatre 2 CR
Contact Hours: 2 + 0
Crosslisted with: DNCE A124.
Basic stage dance/performance techniques. Covers styles of dance from early 1900’s 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Registration Restrictions</th>
<th>Course Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR A151</td>
<td>Make-Up for the Theatre</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees.</td>
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<td>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 illusion and plastic relief. Covers historical make-up and hair styles in classical plays.</td>
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<tr>
<td>THR A195</td>
<td>Theatre Practicum: Performance</td>
<td>1-3 CR</td>
<td>0 + 3-9</td>
<td>Contact Hours: 0 + 3-9. Registration Restrictions: Faculty permission and audition. Stacked with: THR A395. Participation in mainstage production as actor, director, or assistant director.</td>
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<tr>
<td>THR A221</td>
<td>Acting II: Movement for the Actor</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>Contact Hours: 2 + 3. Prerequisites: THR A111 and THR A121. Intermediate study of acting with emphasis on expression through movement. Analysis and development of physical skills.</td>
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<tr>
<td>THR A243</td>
<td>Scene Design</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0. Fundamental principles of design for the stage, including drafting, rendering, theory, analysis, and practice.</td>
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<tr>
<td>THR A257</td>
<td>Costume Design and Construction I</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>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.</td>
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<tr>
<td>THR A295</td>
<td>Theatre Practicum: Technical</td>
<td>1-3 CR</td>
<td>0 + 3-9</td>
<td>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.</td>
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<tr>
<td>THR A311</td>
<td>Representative Plays I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0. Prerequisites: ENGL A111. Course Attributes: GER Fine Arts Requirement GER Humanities Requirement. A survey course of dramatic literature from Greek drama to 1800. Emphasis is placed upon the playwrights’ work and relationship to the production of these plays in their own time and in today’s theatre.</td>
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<tr>
<td>THR A312</td>
<td>Representative Plays II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0. Prerequisites: ENGL A111. Course Attributes: GER Fine Arts Requirement 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.</td>
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<tr>
<td>THR A315</td>
<td>Playwriting Workshop</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0. Study and practice of script development for the stage. Class will involve staged readings of student work.</td>
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<tr>
<td>THR A321</td>
<td>Acting III: Scene Study</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>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.</td>
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<tr>
<td>THR A324</td>
<td>Voice for the Actor</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
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<tr>
<td>THR A325</td>
<td>Theatre Speech</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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 tempop rhythms, 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.</td>
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<tr>
<td>THR A328</td>
<td>Acting Shakespeare</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>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.</td>
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<tr>
<td>THR A329</td>
<td>Combat for the Stage I</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>Contact Hours: 2 + 3. Prerequisites: THR A121 and THR A221. An introduction to the art of fighting in the theatre. Students are taught basic techniques for unarmed, single rapier, and rapier and dagger combat. Emphasis is placed throughout on safety as well as the effectiveness of the illusion of violence.</td>
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<tr>
<td>THR A330</td>
<td>Combat for the Stage II</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>Contact Hours: 2 + 3. Prerequisites: THR A329. A continuation of the study begun in THR A329, Combat for the Stage. Students review unarmed and rapier and dagger techniques, and are taught broadsword, and/or quarterstaff and small sword combat. Emphasis is placed throughout on safety as well as the effectiveness of the illusion of violence.</td>
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<tr>
<td>THR A331</td>
<td>Directing I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0. Prerequisites: THR A221 and THR A243 and THR A257. Direction of short plays for drama lab productions.</td>
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<tr>
<td>THR A341</td>
<td>Stagecraft II</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>Contact Hours: 2 + 2. Prerequisites: THR A141. Advanced problems and techniques of technical theatre production. Course is key to recent developments in the technical production areas.</td>
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<tr>
<td>THR A343</td>
<td>Scenic Design II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0. Prerequisites: THR A243. Continuation and expansion of THR 243 reflecting most recent trends in theatre practice. Advanced course teaching more complex techniques. Emphasizes design theory and script analysis with concentration on various rendering and modeling methods.</td>
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<tr>
<td>THR A347</td>
<td>Lighting Design</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0. Prerequisites: THR A243. 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.</td>
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<tr>
<td>THR A357</td>
<td>Costume Design and Construction II</td>
<td>3 CR</td>
<td>1 + 4</td>
<td>Contact Hours: 1 + 4. Prerequisites: THR A257. Advanced work in costume design and construction. This course is a continuation of THR A257.</td>
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<tr>
<td>THR A395</td>
<td>Advanced Practicum: Performance</td>
<td>1-3 CR</td>
<td>0 + 1-3</td>
<td>Contact Hours: 0 + 1-3. 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.</td>
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<tr>
<td>THR A411</td>
<td>History of the Theatre I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0. Registration Restrictions: Junior or senior standing and completion of written communication general college requirements. Course Attributes: GER Fine Arts Requirement GER Humanities Requirement. 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.</td>
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<tr>
<td>THR A412</td>
<td>History of the Theatre II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0. Registration Restrictions: Junior or senior standing and completion of written communication general college requirements. Course Attributes: GER Fine Arts Requirement GER Humanities Requirement. Continuation of THR A411. Theatre history from 1800 to modern.</td>
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</table>
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 A257 or THR A243.  
Special Fees.  
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: 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  
Beatrice McDonald Building (BMB), Room 106, 786-6445  
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 Fees.  
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)  0.5-4 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)  0.5-3 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)  0.5-3 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)  0.5-4.5 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.
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)  0.5-3.5 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 tine 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)  0.5-8 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)  0.5-5 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  Professional Role and Development: PBTE (Topics Vary)  0.5-5 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 A480  Coordination of Cooperative Education: PBTE (Topics Vary)  0.5-6 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. Modules in this category 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 A490  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.
### COURSE DESCRIPTIONS

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>VE A601</td>
<td>Principles of Technology</td>
<td>1-3 CR</td>
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<tr>
<td>VE A611</td>
<td>Philosophical Foundations of Vocational Education</td>
<td>3 CR</td>
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<tr>
<td>VE A622</td>
<td>Organization and Administration of Vocational Education</td>
<td>3 CR</td>
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<tr>
<td>VE A633</td>
<td>Current Issues in Vocational Education</td>
<td>3 CR</td>
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<tr>
<td>VE A643</td>
<td>Methods of Instruction in Vocational Education</td>
<td>3 CR</td>
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<tr>
<td>VE A644</td>
<td>Improving Instruction in Vocational Education</td>
<td>3 CR</td>
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<tr>
<td>VE A655</td>
<td>Curriculum Development in Vocational Education</td>
<td>3 CR</td>
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<tr>
<td>VE A690</td>
<td>Selected Topics in Career and Technical Education</td>
<td>1-6 CR</td>
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<tr>
<td>VE A695</td>
<td>Advanced Professional Experiences: Discipline Area</td>
<td>1-6 CR</td>
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<tr>
<td>VE A698</td>
<td>Individual Research</td>
<td>1-6 CR</td>
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### VOCATIONAL SKILLS - VS

<table>
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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>VS A100</td>
<td>Beginning Woodworking</td>
<td>2 CR</td>
</tr>
<tr>
<td>VS A125</td>
<td>Woodworking I</td>
<td>3 CR</td>
</tr>
<tr>
<td>VS A126</td>
<td>Woodworking II</td>
<td>3 CR</td>
</tr>
<tr>
<td>VS A131</td>
<td>Construction for the Owner/Builder I</td>
<td>3 CR</td>
</tr>
<tr>
<td>VS A150</td>
<td>Intermediate Woodworking</td>
<td>2 CR</td>
</tr>
<tr>
<td>VS A152</td>
<td>Machine Woodworking</td>
<td>3 CR</td>
</tr>
</tbody>
</table>

### OFFERED THROUGH Kodiak College

- **VS A100** Beginning Woodworking: 2 CR
- **VS A125** Woodworking I: 3 CR
- **VS A126** Woodworking II: 3 CR
- **VS A131** Construction for the Owner/Builder I: 3 CR
- **VS A150** Intermediate Woodworking: 2 CR
- **VS A152** Machine Woodworking: 3 CR

### Contact Information

117 Benny Benson, Dr., Kodiak, Alaska, 99615, (907) 486-4161.

**Offered through Kodiak College**

- **VS A100** Beginning Woodworking: 2 CR
- 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
- 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
- Offered only at Kenai Peninsula College Kachemak Bay branch.
- Special Note: May be repeated once for degree credit.
- Continued of VS A125 with emphasis on more advanced projects and greater individual initiative.

**VS A131** Construction for the Owner/Builder I: 3 CR
- 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 A150** Intermediate Woodworking: 2 CR
- 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 Building (GHB), Room 111, (907) 786-6478

WELD A101 Gas and Arc Welding 4 CR
Contact Hours: 2 + 6
Special Fees.
Introduces students to a welding process. Covers welding of mild steels with covered electrodes. Includes arc welding, brazing, silver soldering, and cast iron welding. Second half covers arc welding. Designed for home and shop welders.

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 theory and basic calculations for the layout and make-up of piping offsets and pipe spool assemblies common to the oil and gas industry. Applies formulas and tables to solve pipefitting problems.

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, or with backing. Pipe sizes of 4-6 inch schedule 40.
Offered only at Kenai Peninsula College.
Covers welding of pipe in all positions, open root, uphill and downhill.

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 sizes: 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.

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 A111 Gas Welding and Cutting 4 CR
Contact Hours: 2 + 6
Special Fees.
Introduces beginning students to welding. First half of course covers oxyacetylene welding, brazing, silver soldering, and cast iron welding. Second half covers arc welding. Designed for home and shop welders.

WELD A112 Shielded Metal Arc Welding (SMAW) 4 CR
Contact Hours: 2 + 6
Special Fees.
Introduction to the welding of mild steels with covered electrodes. Includes welding safety, electric welding equipment, electrode identification and selection, basic 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.
Study of metals and their weldability, and establishing preheat and interpass temperatures. All position welding using low hydrogen-type electrodes to AWS Structural Welding Code. Investigates welding characteristics of a variety of electrodes: E6010, E7010, E7108, E8018, E7014, E7024, and others.

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: 4 + 0
Emphasizes theory and basic calculations for the layout and make-up of piping offsets and pipe spool assemblies common to the oil and gas industry. Applies formulas and tables to solve pipefitting problems.

WELD A121 Pipe Welding Vertical-Down Techniques 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A112.
Special Fees.
Vertical-down welding techniques on carbon steel pipe with high-cellulose electrodes. Includes electrode selection, pipe classifications, fabricated pipe fittings, and interpretation of the API 1104 code.

WELD A122 Advanced Pipe Welding 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A121.
Continuation of vertical down welding to ASME standards. Choice of vertical up welding with low hydrogen electrodes or the fast-freeze type.

WELD A123 Gas Metal Arc Welding (GMAW) 4 CR
Contact Hours: 2 + 6
Special Fees.
Introduction to welding of mild steels with semi-automatic GMAW process, using carbon dioxide shielding gas and continuously fed wire. Covers arc characteristics, metal transfer modes, electrical characteristics of power supplies, wire feeders, filler metal selection, equipment maintenance, welding defects (their causes and corrections), welding variables, and welding practices to ASME code.

WELD A124 Flux Cored Welding (FCAW) 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A112 or WELD A161.
Special Fees.

WELD A125 Basic TIG Welding 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A111.
Special Fees.
Introduction to basic Tungsten-Inert Gas Welding (TIG). Topics include TIG power supplies, torches, inert gases, filler metal selection, and electrical characteristics of the arc. Students WELD both aluminum and stainless steels in laboratory.

WELD A126 Welding Processes and Equipment 4 CR
Contact Hours: 4 + 0
Survey of current welding processes used by welding industry in fabrication and repair. Study of selected electric welding equipment with emphasis on maintenance, installation, and troubleshooting.

WELD A127 Selected Topics in Welding Technology 1-4 CR
Contact Hours: 1-4 + 0-12
Prerequisites: WELD A101.
Special Fees.
Provides advanced students with the opportunity to study 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.

WELD A261  Ultrasonic Testing  4 CR
  Contact Hours:  2 + 4
  Registration Restrictions: MATH A105 recommended.
  Special Fees.
  Theory and application of ultrasonic inspection as applied to welding inspection, corrosion detection, and material thickness evaluation. Training in accordance with ASNT TC-1A, Level 1, requirements.

WELD A262  General Nondestructive Testing  3 CR
  Contact Hours:  2 + 2
  Principles and application of dye penetrant, magnetic particle, eddy current and chemical testing. Nondestructive testing methods studied provide technician with knowledge and skills to perform tests, conduct inspection, and evaluate results. Testing methods studied are used by welding industry to detect WELD defects, locate corrosion, sort materials, identify structural change, and many other uses.

WELD A263  X-Ray and Radioisotopes, Radiography  4 CR
  Contact Hours:  2 + 3
  Prerequisites: WELD A112.
  Registration Restrictions: WELD A172 recommended.
  Special Fees.
  In-depth study of theory and application of industrial radiography with emphasis on structural x-ray techniques. General subject matter includes radiation safety, use of survey instruments, exposure techniques, development of radiographic procedures, interpretation of radiographs, equipment design, federal regulations, and other areas of interest.

WELD A280  Welding Inspection and Code Review  4 CR
  Contact Hours:  4 + 0
  Registration Restrictions: Knowledge of welding and inspection methods and techniques.
  Designed for fourth semester welding technology students, and also for welders and inspectors preparing for AWS CW1 test. Review of numerous welding and inspection techniques employed in construction and fabrication industries in Alaska. Survey of welding codes applying to welding pipelines, pressure vessels, bridges, and buildings.

WELD A287  Welding Metallurgy Applications  5 CR
  Contact Hours:  3 + 4
  Registration Restrictions: Advanced standing.
  Special Fees.
  Provides basic metallurgy theory and hands-on experience of preparing samples for examination, conducting metallurgical tests, and evaluating test results.

WELD A290  Selected Topics in Nondestructive Testing  1-4 CR
  Contact Hours:  1-4 + 0-12
  Prerequisites: WELD A262.
  Special Fees.
  Presents new techniques and technology in the nondestructive testing industry.

WELD A310  Applied Evaluation of Components and Materials  3 CR
  Contact Hours:  3 + 0
  Prerequisites: MATH A107.
  Registration Restrictions: Acceptance into the BS in Technology.
  Non-calculus based study of force analysis of structures by externally applied loads using formulas and mathematical relationships derived using only algebra and trigonometry. Material is based on commonly understood physical concepts and principles.

WELD A410  Advanced Nondestructive Testing  3 CR
  Contact Hours:  2 + 3
  Prerequisites: WELD A261 and WELD A262 and MATH A105.
  Special Fees.
  Advanced principles of nondestructive testing as related to acoustic emission ultrasonic and eddy current/flux leakage testing. Manual and automatic testing procedures and equipment as related to different materials and testing situations.

WOMEN STUDIES - WS

http://www.uaa.alaska.edu/womens/
Offered through the College of Arts and Sciences

WS A200  Introduction to Women's Studies  3 CR
  Contact Hours:  3 + 0
  Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.
  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.

WASTEWATER TREATMENT - WWT

Offered through the Community & Technical College
Division of Applied Technologies
Beatrice McDonald Bldg (BMB) Room 210B, (907) 786-6423

WWT A100  Water Treatment Science and Math  1 CR
  Contact Hours:  1 + 0
  Covers typical water plant unit processes, operator duties, Alaskan water systems, wells and surface water sources, water chemical characteristics, and biological and physical contaminants. Emphasizes simple equations, conversion factors, solving for unknown value, and problem solving by dimensional analysis. Prepares students for Alaska Operator Certification examinations.

WWT A103  Water Treatment Processes  1 CR
  Contact Hours:  1 + 0
  Special Note: Students should have a basic understanding of high school mathematics/algebra and general science or have completed WWT A100.
  Covers specific water plant unit processes, including coagulation, flocculation, filtration, sedimentation, disinfection, and iron and manganese removal. Also includes typical operator duties, maintenance and troubleshooting techniques, an overview of water distribution system components, and a tour of the Anchorage (Ship Creek) Water Treatment Facility.

WWT A107  Wastewater Science and Math  1 CR
  Contact Hours:  1 + 0
  Covers typical wastewater plant unit processes, typical operator duties, an overview of typical Alaskan wastewater systems, wastewater sources, wastewater chemical, biological (primary focus) and physical contaminants, State of Alaska and EPA regulations, simple equations, conversion factors, solving for unknown value, problem solving by dimensional analysis, preliminary and primary treatment techniques, and a tour of the Anchorage (Point Woronzof) Wastewater Treatment Facility.

WWT A109  Wastewater Treatment Processes  1 CR
  Contact Hours:  1 + 0
  Special Note: Students should have a working knowledge of high school mathematics/algebra and general science or completed WWT A107.
  Covers specific wastewater plant unit processes, including activated sludge and variations, physical/chemical, sludge management, and tertiary processes. Also includes typical operator duties, maintenance and troubleshooting techniques, and a tour of the Eagle River Wastewater Treatment facility.
CHAPTER 12

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

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Term Expires
2005
2005
2009
2003
2005
2007
2009
2003
2007
2003
2007

Mark R. Hamilton, President, University of Alaska

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