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Anissa Hauser

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

**University of Alaska Anchorage**  
3211 Providence Drive  
Anchorage, AK 99508-8046  
Campus Directory: (907) 786-1800

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<tr>
<td>Academic Affairs, Office of</td>
<td>786-1921</td>
<td>Administration Building, Room 214</td>
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**Schools and Colleges**

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<th><strong>(907) 786-1707</strong></th>
<th><strong>Web site:</strong> <a href="http://www.uaa.alaska.edu/cas/">www.uaa.alaska.edu/cas/</a></th>
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<tr>
<td>College of Arts and Sciences</td>
<td></td>
<td>College of Arts and Sciences Building, Room 335</td>
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<tr>
<td>Community and Technical College</td>
<td>(907) 786-6400</td>
<td>Web site: <a href="http://www.uaa.alaska.edu/ctc/">www.uaa.alaska.edu/ctc/</a></td>
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<tr>
<td>College of Business and Public Policy</td>
<td>(907) 786-4100</td>
<td>Business Education Building, Room 309</td>
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<tr>
<td>School of Engineering</td>
<td>(907) 786-1900</td>
<td>Web site: <a href="http://www.engr.uaa.alaska.edu">www.engr.uaa.alaska.edu</a></td>
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<th><strong>EXTENDED COLLEGES AND SITES</strong></th>
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<tbody>
<tr>
<td>Chugiak/Eagle River Campus</td>
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<tr>
<td>Web site: <a href="http://www.uaa.alaska.edu/eagle/">www.uaa.alaska.edu/eagle/</a></td>
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<tr>
<td>Dennis Clark, Director</td>
</tr>
<tr>
<td>10928 Eagle River Road, Suite 228</td>
</tr>
<tr>
<td>Eagle River, Alaska 99577</td>
</tr>
<tr>
<td>Kenai Peninsula College</td>
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<tr>
<td>Web site: <a href="http://www.uaa.alaska.edu/kenai/">www.uaa.alaska.edu/kenai/</a></td>
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<tr>
<td>Ginger Steffy, Director</td>
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<tr>
<td>34820 College Drive, Soldotna, Alaska 99669</td>
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<tr>
<td>Kenai Peninsula College</td>
</tr>
<tr>
<td>Kachemak Bay Branch</td>
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<tr>
<td>Carol Swartz, Director</td>
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<tr>
<td>533 E. Pioneer Avenue, Homer, Alaska 99603</td>
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<tr>
<td>Kodiak College</td>
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<tr>
<td>Web site: <a href="http://www.koc.alaska.edu">www.koc.alaska.edu</a></td>
</tr>
<tr>
<td>Dr. Douglas Hammer, Director</td>
</tr>
<tr>
<td>117 Benny Benson Drive, Kodiak, Alaska 99615</td>
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<td>Matanuska-Susitna (Mat-Su) College</td>
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<tr>
<td>Web site: <a href="http://www.matsu.alaska.edu">www.matsu.alaska.edu</a></td>
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<tr>
<td>Stephen Sylvestre, Director</td>
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<td>4109 Bullard Avenue</td>
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<td>Dean Terencio, Director</td>
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<td>4109 Bullard Avenue</td>
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<td>Elmendorf AFB, Alaska 99506</td>
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<tr>
<td>Fort Richardson Army Post</td>
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<tr>
<td>Dean Terencio, Director</td>
</tr>
<tr>
<td>Fort Richardson Center</td>
</tr>
<tr>
<td>Kiska Hall, Building 658</td>
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<tr>
<td>Fort Richardson Army Post, Alaska 99505</td>
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<tr>
<td>Roamona McAfee, Director</td>
</tr>
<tr>
<td>Building 2107, Room 99, Montgomery Road</td>
</tr>
<tr>
<td>P.O. Box 35449</td>
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<tr>
<td>Fort Wainwright Army Post, Alaska 99703</td>
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<tr>
<td>Clear Education Center</td>
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<tr>
<td>Roamona McAfee, Director</td>
</tr>
<tr>
<td>c/o 3124 Wabash Ave. Room 105</td>
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<tr>
<td>Eielson AFB, Ak 99702</td>
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<td>Eielson Education Center</td>
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<tr>
<td>Roamona McAfee, Director</td>
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<tr>
<td>3124 Wabash Ave. Room 105</td>
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<tr>
<td>P.O. Box 4510</td>
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<tr>
<td>Eielson AFB, Alaska 99702</td>
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<tr>
<td>Prince William Sound Community College</td>
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<tr>
<td>Web site: <a href="http://www.uaa.alaska.edu/pwscc/">www.uaa.alaska.edu/pwscc/</a></td>
</tr>
<tr>
<td>Dr. JoAnn McDowell, President</td>
</tr>
<tr>
<td>P.O. Box 97</td>
</tr>
<tr>
<td>Valdez, Alaska 99686</td>
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### 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

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- **Automotive Technology (AI)**: 171
- **Aviation Maintenance Technology (AI)**: 178
- **Civil Engineering Drafting (ALMA)**: 170
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- **Diesel Technology (AI)**: 172
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**Master of Arts in Teaching**
- **Education (AI)**: 257

**Master of Business Administration**
- **Business Administration (AI)**: 233

**Master of Civil Engineering**
- **Civil Engineering (AI)**: 250

**Master of Education**
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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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- **Engineering Management (AI)**: 225
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- **Environmental Quality Science (AI)**: 252
- **Global Supply Chain Management**: 234
- **Interdisciplinary Studies (AI)**: 222
- **Nursing Science (AI)**: 243
- **Science Management (AI)**: 251
- **Vocational Education (AI)**: 248

**Master of Social Work**
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2001-2002 ACADEMIC CALENDAR

FALL SEMESTER 2001

AUGUST 27, 2001
Instruction begins
Late Registration begins

SEPTEMBER 3-4, 2001
Labor Day (UAA closed Sept. 3)
No classes Sept. 4

SEPTEMBER 14, 2001
December Graduation Application Deadline

OCTOBER 1, 2001
Spring Application for Admission Priority Deadline

OCTOBER 26, 2001
Independent/Directed Study Deadline

NOVEMBER 21-25, 2001
Thanksgiving Holiday (no classes)
UAA closed (Nov. 22 & 23)

DECEMBER 10-16, 2001
Final exam week

DECEMBER 16, 2001
Instruction ends

DECEMBER 20, 2001
Grades available on WolfLine and Wolflink

SPRING SEMESTER 2002

OCTOBER 23, 2001
WolfLine Registration begins

JANUARY 7, 2002
Instruction begins
Late Registration begins

JANUARY 21, 2002
University of Alaska Civil Rights Day in Honor of Martin Luther King, Jr.
UAA closed

JANUARY 25, 2002
May Graduation Application Deadline

MARCH 1, 2002
Summer Application for Admission Priority Deadline

MARCH 1, 2002
Independent/Directed Study Deadline

MARCH 25-30, 2002
Spring Break (No classes)
UAA closed (March 29)

APRIL 29 - MAY 4, 2002
Final exam week

May 1, 2002
Fall Application for Admission Priority Deadline

May 4, 2002
Instruction ends

May 5, 2002
Commencement

May 9, 2002
Grades available on WolfLine and Wolflink

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
WELCOME TO UAA

We are pleased to have you join the University of Alaska Anchorage (UAA) as we enter the 21st Century as an innovative and dynamic metropolitan university. UAA has been continuously accredited by the Commission on Colleges of the Northwest Association of Schools and Colleges since its beginning. In addition, you have available to you many professional and technical programs—such as business, nursing, and civil engineering—which are also accredited by their respective associations. You will be living in the state’s population and service center, and have over 19,000 traditional and non-traditional classmates and four different college campuses and numerous extension sites located in the major cities of southcentral Alaska and on various military sites available to you.

Academic programs UAA offers include the liberal arts and sciences as well as a host of professional and technical fields. Academic specialties in health and biomedical sciences, business and international trade, public policy and administration, and special education are available and new programs, such as logistics management, have been recently added to the curriculum in response to community needs and opportunities. As an open-enrollment university, UAA provides all students opportunities to reach their educational goals while retaining high academic standards.

UAA’s main campus is located in Anchorage with extension sites at Eagle River, Fort Richardson, and Elmendorf Air Force Base. For students residing in the Palmer-Wasilla region, Matanuska-Susitna College offers two-year degrees and certificates as well as access to baccalaureate and some advanced degrees. Students from Kodiak Island and the Kenai Peninsula are similarly served by Kodiak College, Kenai Peninsula College (KPC), and KPC’s Kachemak Bay Branch in Homer. Administratively attached to UAA, Prince William Sound Community College (PWSCC) serves students in Valdez, Cordova, and Copper Center. The university also serves students across Alaska via various media through the Center for Distributed Learning.

In today’s world, higher education equates to lifelong learning. UAA takes its motto “We Learn for Life” seriously. Whether you are recently graduating from high school, making a career change, or learning for self-enrichment, you have the opportunity to pursue exciting and challenging opportunities of academic excellence, vocational-technical mastery, or personal fulfillment. In all instances, you will have extraordinary opportunities to learn in small classes taught by dedicated faculty. The University of Alaska Anchorage offers certificate, associate, baccalaureate, and master’s degree programs and instruction in 115 major study areas. In addition, you will have access to scores of tailored short courses, workshops, and seminars throughout the year with special summer study and conference programs to study and experience the natural grandeur of Alaska.

UAA’s Honors Program provides academic challenges in both depth and breadth. We encourage you to consider exploring international educational experiences. A rich diversity of study abroad opportunities are available from which you can choose.

Three academic schools 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 Social Work, as well as 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.

Faculty encourage student research, scholarship, and creative activity across the curriculum and throughout the university. An annual Student Showcase emulates professional meetings wherein student research and creative expressions are reviewed by faculty and culminate in a university publication. Faculty you will study with routinely win accolades for their creative works and scores of faculty advance the frontiers of science through their research activities sponsored by the National Institute of Health and the National Science Foundation. Students participate in a range of internships and service learning settings as part of their professional or technical education and training.
Helping students achieve their academic goals is the mission of UAA’s support services. You will be supported by centers that focus on academic excellence, student health, learning resources, advising and counseling, career development, educational opportunity, and study abroad. Other services assist students with financial aid or special needs or interests. The African-American, Hispanic, Asian, International, and Native American (AHAINA) office and Native Student Services (NSS) foster an appreciation for cultural diversity and support students of color or diverse ethnic ties. The Union of Students governs 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 UAASpeech 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 aircrossroads 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 UADrive 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-1960’s, 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.

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
- Matanusa-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 Chancellor include:

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

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

UNIVERSITY ADVANCEMENT

University Advancement facilitates external relations and internal communications for the University of Alaska Anchorage.

Units reporting to the Vice Chancellor for University Advancement include:

- Alumni
- Development
- Public Relations

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-USACooperative 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 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 Public Health Service Act as amended, Title IX of the Educational Amendments of 1972, Section 503 and 504 of the Rehabilitation Act of 1973 as amended, the Vietnam Era Veterans’ Act of 1973 as amended, the Vietnam Era Veterans’ Readjustment Assistance Act of 1974 as amended, the Age Discrimination Act of 1975, the Pregnancy Discrimination Act of 1978, the Immigrant Reform and Control Act of 1986, the Civil Rights Restoration Act of 1987, 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 Statutes Chapters 14 and 18. Inquiries regarding application of these 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/dos/safety.
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
Approved by the Federal Aviation Administration

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

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

**DENTAL ASSISTING**
Certificate
Approved by the American Dental Assistants' Association

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

**DIETARY MANAGER**
Non-transcripted 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 Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (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
Approved by the Commission on Accreditation of Allied Health Education Programs (CAAHEP)

**MEDICAL LABORATORY TECHNOLOGY**
Associate of Applied Science
Accredited by the National Accrediting Agency for Clinical Laboratory Science (NAACLS)

**MUSIC**
Bachelor of Arts
Bachelor of Music, Performance
Accredited by the National Association of Schools of Music (NASM)

**NURSING**
Bachelor of Science
Master of Science
Accredited by the National League for Nursing Accreditation Commission
Approved by the 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 2000**

Percentages may not add up to 100% due to rounding.

**RACE:**
- African-American: 4.5%
- Alaska Native: 6.0%
- American Indian: 1.4%
- Hispanic: 4.0%
- Pacific Islander/Asian: 5.1%
- White: 74.8%
- Other/Unspecified: 4.2%

**AGE:**
- 19 and under: 15.0%
- 20-24: 26.7%
- 25-29: 14.8%
- 30-34: 10.3%
- 35-39: 8.9%
- 40-44: 8.7%
- 45 and over: 15.6%
- 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-20 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.

UNDER-AGE STUDENTS

An under-age 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, under-age students must:

1. Qualify under a special University program.
2. Complete the UAA Under-age 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.

Under-age 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 Wolfline Registration Access Form. Registration is available during the dates listed in the class semester schedule. The Wolfline 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 UAAFinancial 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 Chugak-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 UAApolicies, 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.

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.
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>ADD OR LATE REGISTRATION</td>
<td>Faculty signature required if course closed. Fee charged.</td>
<td>Faculty signature required. Fee charged.</td>
<td>Not permitted.</td>
</tr>
<tr>
<td>ADD/DROP, WITHDRAWAL, CREDIT/NO CREDIT, AND AUDIT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FACULTY INITIATED DROP OR WITHDRAWAL (OPTIONAL)</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>
<tr>
<td>CDROP OR CWITHDRAWAL</td>
<td>Please see Class Schedule for specific dates.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL WITHDRAWAL FROM UNIVERSITY</td>
<td>No faculty signature required. Fee charged. Course will not appear on student transcript.</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>
<tr>
<td>CDROP OR CWITHDRAWAL</td>
<td>Please see Class Schedule for specific dates.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL WITHDRAWAL FROM UNIVERSITY</td>
<td>No faculty signature required. Fee charged. Form filed with Enrollment Services. Courses will not appear on student’s transcript.</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>
<tr>
<td>TOTAL WITHDRAWAL FROM UNIVERSITY</td>
<td>Please see Class Schedule for specific dates.</td>
<td></td>
<td></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>Week 1 through 2 of Semester</th>
<th>Weeks 3 through 12 of Semester</th>
<th>After Week 12 of Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CREDIT/NO CREDIT</td>
<td>Fee charged. Form filed with Enrollment Services.</td>
<td>No faculty signature required. Fee charged. Form filed with Enrollment Services.</td>
<td>Not permitted.</td>
</tr>
<tr>
<td>CREDIT TO AUDIT</td>
<td>Fee charged. Faculty signature required. Fee charged. Form filed with Enrollment Services.</td>
<td></td>
<td>Not permitted.</td>
</tr>
<tr>
<td>AUDIT TO CREDIT</td>
<td>Faculty signature required. Fee charged. Form filed with Enrollment Services.</td>
<td>Not permitted.</td>
<td>Not permitted.</td>
</tr>
</tbody>
</table>
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.

STUDYLOAD
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 and country 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 - UAAs 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)

UAAbelongs 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 its 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
  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 (excepting 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 a 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 tuition purposes provided they meet the other conditions of residency.

For purposes of tuition charges, the following shall be deemed a resident:
• All active 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 three 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 $79.00 per credit hour
*Non-resident $248.00 per credit hour

Upper-Division—Undergraduate (Course Numbers 300 - 499)
Resident $90.00 per credit hour
*Non-resident $259.00 per credit hour

Graduate
Resident $178.00 per credit hour
*Non-resident $347.00 per credit hour

* Non-resident students who restrict their enrollment to no more than three 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)
Certificate............................................................................35
Associate Degree....................................................................35
Baccalaureate Degree..............................................................35
Graduate Degree....................................................................45
ASSET Placement Fee............................................................10
Audit Fee ................................................................................Varies
Cancelled Registration Fee (CRFEE)......................................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..................................................178
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)................................................200
Non-Credit Course Fee............................................................Varies
Parking Fee (optional, non-refundable, per semester/annual) range 33-104
Self Support Fee .................................................................Varies
Student Activity Fees (for 3-5 credits).................................22.25
Student Activity Fees (for 6 plus credits).................................26.25
Student Health Center Fee (6 or more credits).......................39
Student Credentials Fee...........................................................5
Technology Fee .................................................................5/cr... ..max 60
Transcript Fee (per copy)........................................................Varies
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 telecourse. 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 (or non-credit students enrolled for 200 or more contact hours in one semester) 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 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, (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 organization programs and services.

Summer session students are not assessed the Concert Program Fee.
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 UAAParking Office any time throughout the semester. The UAAParking 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 ACTIVITY FEES
Activity fees of $22.25 (for 3-5 credits) or $76.25 (for 6 plus credits) per semester are assessed to students (including underage students) who enroll for three or more credits on the Anchorage campus. This fee supports student-related activities.

Students taking three or more credits and having all courses off campus (or non-credit students enrolled for 200 or more contact hours in one semester) may elect to pay the Student Activity Fees in order to have access to available activities and facilities, with the exception of the Student Health Center. Students taking six or more credits and having all courses off campus may elect to pay the Student Activity Fees and Student Health Center Fee in order to have access to all available activities and facilities, including the Student Health Center. Student fees are mandatory for 3 or more credits. The following is a breakdown of the student mandatory fees:

- Student Government Fee: 7.00
- Concert Program Fee*: 5.00
- Student Media Fee: 10.25
- For 6 credit or more:
  - Student Health Center Fee: 39.00
  - Athletic Program Fee*: 39.00
  - PE Facility Use Fee*: 22.00
  - Student Activities Fee**: 12.00

*Fall and Spring Only
** Mandatory at 3 credits or more

STUDENT HEALTH CENTER FEE
All students taking a total of six or more credits and having at least one course (three credits or more) on the Anchorage campus will pay a mandatory Student Health Center Fee.

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.

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 $1 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 before 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 are forced by extenuating circumstances to withdraw after the refund deadline may petition for refunds. Extenuating circumstances for refund petitions are defined as death, disability, military transfer, or sudden and uncontrollable absence. Written documentation is required and must be provided within six months from the date of registration. Students who must withdraw as a result of University disciplinary action forfeit all rights to any refund.

Refunds are not issued after one academic year. If 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 $1. A $15 fee is charged for all checks reissued due to a stop payment request by the student.

All refunds are processed by the Accounting Office according to the following policies:

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.

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 other assistance, such as an Alaska State Student Loan or 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.
5. Students applying for federal assistance who have attended other postsecondary institutions may be required to submit a Financial Aid Transcript from each institution previously attended.

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. Meets satisfactory academic progress as defined by Student Financial Aid regulations (policy available on Web at www.uaa.alaska.edu/finaid)

FEDERALVERIFICATION

The U.S. Department of Education selects 30% of financial aid applications for the verification process. The Office of Student Financial Aid verifies information on selected applications prior to students receiving financial aid awards. Copies of the following documents may be requested:

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

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

SATISFACTORY ACADEMIC PROGRESS

To remain in good standing for federal assistance or state loans, 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.

SATISFACTORY ACADEMIC PROGRESS POLICY

In order to receive financial aid from any of the Federal aid programs, the State of Alaska loan programs or from institutional funds, a student must be fully admitted to 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. 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, F, 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.

TELECOurses 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 (see attachment A) 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:

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

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:

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

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.

d) When the total amount of unearned aid is greater than the amount returned by UAA from the student’s account, the student is responsible for returning unearned aid to the appropriate program(s) as follows: Unsubsidized Stafford Loan*, Subsidized Stafford Loan*, Parent Loans to Undergraduate Students (PLUS)*, Federal Pell Grant**, Federal SEOG**, other Title IV grant programs**.

* Loan amounts are returned according to the terms of the promissory note.
** Amounts to be returned by the student to federal grant programs will receive a 50% discount.

e) If a withdrawing student is determined to have earned more aid than was actually disbursed by the official withdrawal date, UAA may apply “post-withdrawal disbursements” to current year charges and to minor prior year charges that the student owes without specific permission of the withdrawing student, providing the student would have otherwise been fully eligible for the disbursement on the date of withdrawal.

f) If earned but not disbursed amounts remain after a post-withdrawal disbursement is applied to outstanding eligible institutional charges, withdrawing students (or their respective PLUS borrower) will be offered, in writing, post-withdrawal disbursements of the remaining amounts within 30 days of the date of UAA’s determination that the student withdrew. The withdrawing student or his/her parent must accept the balance of the “post-withdrawal disbursement” within 14 days of being notified. If the student or parent accepts the offer of a post-withdrawal disbursement within 14 days, UAA must provide the funds within 90 days of the date on which UAA became aware of the withdrawal. If the student or parent does not respond within the 14-day window, UAA is not required to make the disbursement, but may do so at its discretion.

g) Written offers of post-withdrawal disbursements, refunds and adjusted bills will be sent to the student’s home address on file in the Office of Records and Registration following withdrawal. Students are responsible for any portion of their institutional charges that are left outstanding after Title IV funds are returned.

3) A student may rescind his/her official notification of withdrawal by filing a written statement with the Records and Registration Office that he/she is continuing to participate in academically related activities and intends to complete the period of enrollment.

a) If the student subsequently ceases to attend UAA prior to the end of the period of enrollment, the student’s rescission is negated and the withdrawal date is the student’s original date, unless a later date is determined.

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 UAAClass 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.

FEDERALPELLGRANT

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.

FEDERALSUPPLEMENTALEDUCATIONALOPPORTUNITYGRANT (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

ALASKA STATE STUDENT LOAN PROGRAM (ASSL)

To be eligible for an ASSL, students must be one-year residents of the State of Alaska, hold high school diploma or the equivalent, and be officially admitted to a certificate, associate, baccalaureate, or graduate degree program. Full-time undergraduate students may borrow up to $8,500 a year depending on cost of attendance and other financial aid awarded for educational expenses. Full-time graduate students may borrow up to $9,500 a year. Applications are available at the Student Financial Aid Office and the Alaska Student Loan Program Office at 707 A Street, Suite 206, Anchorage, AK. 99501. They must be submitted to the Alaska Commission on Postsecondary Education, either at the downtown Anchorage location or 3030 Vintage Blvd., Juneau, AK 99811.

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 Parental Loans for Undergraduate Student (PLUS)

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

SCHOLARSHIPS

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/.
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/.

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.

Federal Work-Study (FWS) positions are also available to students who have applied for financial aid and received notice of eligibility for the FWS award. The Center also advertises non-work study positions located throughout the Anchorage community. Any UAA student enrolled in at least six credits may inquire and obtain a referral. For more information, contact the Career Services Center at (907) 786-4513, web site at 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.

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, Dependents Educational Assistance Program, and Vocational Rehabilitation. Qualified persons who plan to use the Department of Veterans Affairs Educational benefits must contact the UAA Veterans Affairs Office in the office of Student Financial Aid, preferably 60 to 90 days before the term begins. They can provide necessary forms and current benefit information.

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

ADDS, DROPS, AND OTHER CHANGES

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

TRANSCRIPTS FROM PREVIOUS COLLEGES OR UNIVERSITIES

Veteran students with previous college or university experience must have official transcripts on file with the University. Each student must request these transcripts from each previous institution when applying for admission to UAA. The Department of Veterans Affairs may withhold benefits until this requirement is satisfied. For further information, please call (907) 786-1528.
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
ADULT LEARNING CENTER

Adult Basic Education classes, GED certificate instruction, High School Completion, English-as-a-Second Language classes, up-front work search program, and a vocational program for single parents are offered in the Adult Learning Center (ALC). Locations for the Adult Learning Centers include 3401 Minnesota Dr., Eagle River, and Russian Jack. 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. Starting July 1, 2001, the Office Management and Technology programs, including the Technology Learning Center (TLC), will be 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 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. Students should contact their major department to learn how to set up an appointment with a faculty advisor.

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

The Advising and Counseling Center, a unit of Academic Affairs, provides multiple services for prospective and enrolled University of Alaska Anchorage students. Services include academic advising, assessment, career counseling, and personal services. Trained professional counselors and supportive staff members are dedicated to assisting individuals with their needs. The Advising and Counseling Center is the starting place for many students entering the academic world.

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. You may also access information at www.uaa.alaska.edu/dos/advise.html or e-mail general advising questions to acouns@uaa.alaska.edu.

CAREER SERVICES CENTER

The Career Services Center (CSC) provides a number of services and resources. Hundreds of books covering subjects such as how to write a résumé, interviewing skills, and where jobs can be found in the resource room. Other resource materials include videos, college catalogs, and a variety of literature to assist students on a career path or job search. The CSC provides career counseling, a credential file program, résumé assistance, workshops, and campus and community presentations. The center also invites 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.uaa.alaska.edu/career/ or stop by the Business Education Building, Room 122.

STUDENT INTERNSHIPS 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.uaa.alaska.edu/career/.

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 UAAn 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 stress-related 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 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.uaa.alaska.edu/lib/ 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, and Testing and Assessment. 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 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, 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 student’ 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 complete 30 college credits including English 111.

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 have completed at least three semesters of calculus are hired by the Department of Mathematical Sciences.

Video tapes for MATH A054, A055, A60, 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 a 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.
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
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 and stamp machines, 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 UAAID 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.

MEDIABOARD

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 215, or visit www.uaa.alaska.edu/light/home.
STUDENT RADIO STATION

KRUANA88.1 FM, the University radio station, is managed by 15 student employees with the help of approximately 50 volunteers. KRUAbroadcasts 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/ur

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 interrogated 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 (FERPA)
The Family Educational Rights and Privacy Act (FERPA) of 1974, as amended, was designated to protect the privacy of education records, to establish the right of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Refer to Access to Student Records in Chapter 8 of this catalog or to the student handbook. American Universities and Colleges will be released to the media; also, names and addresses of the above honored students will be provided unless a written request not to do so has been received by Enrollment Services.

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 may be prohibited from re-enrolling in the University until the charges 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;
   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;
   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;
   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;
   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;
   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;
   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;
   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;
    b. use, possession, manufacture, distribution, or being under the influence of any narcotic, controlled substance, or intoxicant on property owned or controlled by the University or at activities authorized by the University, except as expressly permitted by law, Regents' Policy, University Regulation, or UAA rules and procedures.

11. Violation of Regents' Policy, University Regulation, or UAA rules and procedures.

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

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.

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.

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.

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 USUAPresident. 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.

4. The accused student may have the opportunity to question and hear all witnesses relied upon by the University.

5. 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.

APPEAL PROCEDURE FOR MINOR SANCTIONS
An accused student may appeal a decision to impose a minor sanction to the dean of students or designated appeal reviewer.

1. Appeals may be made on the basis that:
   a. a material procedural error was made during the process which would have changed the outcome of the matter;
   b. the sanction imposed was clearly excessive for the violation committed;
   c. newly discovered information exists which the student could not reasonably have been expected to know of or discover through diligence prior to the conclusion of the matter and which information, if known, would clearly have affected the outcome of the matter; or
   d. the decision is not supported by substantial information.

2. Appeals must be submitted, in writing, within seven class days of the day the decision is sent to the student to the Office of Student Affairs or to the Department of Residence Life, depending on who is the designated appeal reviewer.

3. The dean of students or designated appeal reviewer will conduct a review of the record and will ordinarily render a decision within seven class days of receipt of the appeal. The dean of students or designated appeal reviewer may:
   a. affirm a decision and/or sanction;
   b. dismiss the case;
   c. lessen a 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.

4. The decision of the dean of students or designated appeal reviewer 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.

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;
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.

GROUPSANCTIONS

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
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 compliance 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 policy 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 designee 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 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.

RESIDENCE HALL ALCOHOL POLICY

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. 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 alcoholic beverages in their apartments and in accordance with Residence Life Policies. All other restrictions on personal alcohol consumption, outlined under “Campus Policy” above, apply to resident students. A major concern is maintaining an educational environment that is conducive to learning. Noise and irresponsible or disturbing behavior that detracts from the learning environment will result in disciplinary and/or legal action.

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

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.

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/dos/safety or in hard copy from the UAA Office of Student Affairs, Campus Center 233, 3211 Providence Drive, Anchorage, Alaska, 99508.

ATHLETIC PROGRAMS

Named the Seawolves, the University’s athletic teams compete as members of the National Collegiate Athletic Association (NCAA) Division I in ice hockey and Division II in all other sports. In addition, the Seawolves are members of the Western Collegiate Hockey Association for ice hockey, the Pacific West Conference for men’s and women’s basketball, men’s and women’s cross country running, and women’s volleyball.

More than 125 student-athletes represent UAA in intercollegiate competition in the following sports: basketball, volleyball, gymnastics, cross-country running and skiing for women; basketball, hockey, cross-country running and skiing for men. Seawolf teams regularly rank high in their respective conferences and divisions, and have produced many All-American and national champions. Any eligible, full-time UAA student may try out for a team by contacting the appropriate coach.

As part of its commitment to athletics, the University sponsors the Carrs/Safeway Great Alaska Shootout men’s and women’s basketball tournament and the Johnson Nissan Classic hockey tournament. These tournaments annually features some of the best NCAA Division I teams in the nation. In addition, the University annually hosts the UAA Invitational Volleyball Tournament and has served as the host for numerous conference tournaments, as well as several NCAA Championship events.

UA A athletes train and compete in excellent facilities. Headquarters for the Seawolf program is the multi-purpose Sports Center on the Anchorage campus. In addition to serving as training and competition home for most UAA regular season events, the Sports Center houses all athletic staff offices. The Carrs/Safeway Great Alaska Shootout, regular-season hockey games, and other special events are staged in the Sullivan Arena in mid-town Anchorage. Completed in 1983, the municipally owned structure can seat 8,700 fans. University ski teams train and compete on the challenging runs of Mount Alyeska, 30 miles south of the city, as well as on the 125 miles of well-groomed cross-country trails in the greater Anchorage area.

BOOKSTORE

The Bookstore stocks required and recommended textbooks, course materials, study aids, technical manuals, and reference books to assist students in the attainment of educational goals. These materials are complemented by a wide selection of fiction, nonfiction, and poetry books. Also offered are general supplies, art materials, gifts, calculators, class rings, graduation apparel, and sports clothing featuring the University name and logo.

When purchasing textbooks, students are encouraged to bring their registration receipt so that reference can be made to the department name, course number and section number on the receipt. Textbooks in resaleable 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. The Bookstore does not provide a refund for books purchased in a prior semester. However, textbooks in good condition and scheduled for future use may be purchased by the Bookstore at a used book buy-back scheduled near the end of each semester.

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 8:30-7:00
Fri 8:30-5:00

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 online 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 http://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; data network and computing services; Internet access; email services, appropriate use, 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.

CAMPUS OPEN-ACCESS COMPUTER LABS

ITS maintains four 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 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
- Campus Center, second floor next to the Information Desk
- Learning Resource Center (LRC), located in the Sally Monserud Building
- Eugene Short Building (ESB) room 102

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

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

Email accounts are available to all students, staff and faculty. University ID’s (UIDs) and passwords are assigned and regulate account access. The default email address is a UID with @uaa.alaska.edu appended to it. Students also have the ability to create a mail alias such as john.doe@uaa.alaska.edu, which makes email more personalized. Students should contact the ITS Call Center for further information on UID/passwords and general mail information or at the above web site.

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 (HTTP://UAANOINEL.EDU/ITS/HELP)

Many UAA courses place course materials on-line and offer a variety of electronic services. UAA-Online is UAA's web destination for on-line course content and services as well as distance education courses (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 2001 semester. Topics such as the following will be included: 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.

WENDYWILLIAMSON MEMORIALAUDITORIUM AND LECTURE HALL

Built in 1975, the Williamson Auditorium provides UAA and the Anchorage community with a venue for lectures, performances, arts events, and community gatherings. The auditorium seats 923 patrons and features sound and lighting systems, a large mainstage, backstage dressing rooms, scene shops, 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 where 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 UAAs 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.

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, 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 one national fraternity 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.

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.
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
- Emergency Messages
- Fire and Safety Issues
- First Aid/CPR
- Traffic and Parking Problems
- 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. 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 Education and Community Development
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 include five classrooms, one DOS-based computer lab, 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 UAdepartments, 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 course in which the student is not required to physically visit the campus from which the course 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.

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.
• UAAdistance 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 http://uaaonline.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.

UNIVERSITYOF ALASKALEARNING 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 UAunits. 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 UAAAdvising 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
EDUCATIONAL DELIVERY SERVICES

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 Unit (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) 786-6755.

SUMMER SESSIONS

Summer Sessions offers over 650 courses during the summer that attract thousands of students from the state and nation and provide undergraduate and graduate students opportunities to complete programs faster. In addition to standard academic courses, special programs are offered to meet the needs of numerous individuals. Short-term institutes and workshops are offered for graduate students and others seeking intensive professional development opportunities. Some programs offer opportunities to explore Alaska while learning more about the State. Other programs support undergraduate students and students who come from families who have not historically accessed higher education previously. Optional on-campus housing is available and individuals seeking accommodations are encouraged to make reservations early. Fee parking is available during the summer. For further information check the web site at www.uaa.alaska.edu/summer/ or call (907) 786-6740.
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
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. 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 BUYALASKA program which provides free in-state sourcing for buyers and sales referrals to suppliers; the Alaska Technology Transfer Center which provides the Small Business Innovation Research (SBIR) proposal assistance and technical data base searches to businesses; a virtual enterprise manufacturing 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 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, Nakhodka, Magadan, and Komsomolsk. The library holdings also include over 24 English language business journals and publications related to business in Russia and the RFE. They include Russian Far East News, Russian Far East Update, Foreign Broadcast Information Service NIS Bulletins, East West Executive Guide, Commerant 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 is a University Affiliated Program (UAP) authorized by the Developmental Disabilities Assistance and Bill of Rights Act 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. Interdisciplinary training
2. Community training and technical assistance
3. Applied research and dissemination of information

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, and fax 274-4802.
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 DATA CENTER

The Arctic Environmental and Information Data Center (AEIDC) is the foundation of ENRI and 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.

ALASKAN 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

Academic Dishonesty
Academic Dispute Resolution Procedure
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Academic Standing
Access to Student Records
Age Limit of Credits
Class Attendance
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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 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.

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 or formally appeal 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 on 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. Conclusions will result in one of the following:

1. the request for a grade change is denied;
2. the request for a grade change is upheld and the committee requests the course instructor to change the grade 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 leaders 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 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 cannot 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.

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. Students also have the right to file complaints with the U.S. Department of Education, Family Policy Compliance Office about alleged failures by the institution to comply with the Act.

UA may release, without consent, certain directory information (name, major, dates of attendance and credentials awarded). No one outside the institution shall have access to, nor will the institution disclose any other information from a student’s education record, without the written consent of the student, except to personnel within the institution on a need-to-know basis, 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 the Act. Exceptions to the above policy are as follows:

1. Names of students receiving awards or appearing on the UAA Dean’s List and Chancellor’s List are released to the media; also, names and addresses of the above honored students are provided to the National Dean’s List Publication unless a written request not to do so has been received by Enrollment Services.
2. 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.
3. Names of scholarship recipients are released to the media unless a written request not to do so has been received by the Financial Aid Office.
4. Names of students receiving awards for the Chancellor’s Scholarship and any other honorary scholarships, i.e. Truman Scholarship and/or appearing in Who’s Who Among Students in American Universities and Colleges are released to the media; also, names and addresses of the above honored students are provided unless a written request not to do so has been received by the Enrollment Services.
5. Name, address, telephone, date and place of birth, level of education, academic major, degrees received and the educational institution most recently enrolled will be released to Military Recruiting and Reserved Officer Training Corps Program personnel unless a written request not to do so has been received by Enrollment Services.

A complete copy of the UAA policy on the application of FERPA, including procedures for challenging the content of one’s records is available in 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.

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.

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

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.

ACREDITED 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 Schools and Colleges
   —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 GENERALEDUCATION REQUIREMENT

CREDITS WITHIN THE UNIVERSITYOF 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><strong>Total</strong></td>
<td><strong>34</strong></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.

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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/NP). Students are awarded credit for the course if their final grade is “P” or “C” or higher. A grade of “CR” is entered on the student’s transcript. If performance falls below that level (“D”, “F”, “NP”) the student will be automatically withdrawn from the course.

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

Through the end of week 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 can not 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 (UAAGPA)

UA 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 UAAGPA. 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 Letter</th>
<th>Grade 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>F</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

UAAlissues 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 both 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 (D’s, F’s, 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 UAADean’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 so do 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.
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 UAAs 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 certifying 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 SOCNAV programs.

The Service members Opportunity Colleges (SOCAD and SOCNAV) program allows active-duty personnel to finish approved associate and baccalaureate degree programs without losing credits as they transfer during their military careers.

Eligibility for entrance to these programs requires three 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.

NATIONAL CREDIT BY EXAMINATION

UAA awards credit for satisfactory performance on most national examinations. In most cases, passing scores and credits awarded for the following national exams are based on the most current American Council on Education recommendations or departmental approved scores.

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

ADVANCED PLACEMENT PROGRAM

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

Advanced Placement Exam ................................................. UAA Equivalent

Art
Studio Art ................................................................. 4 credits lower-division art elective
History of Art ............................................................... ART A261/A262
Biology ............................................................................. BIOM A102/A103+ 1 credit
Chemistry ........................................................................... CHEM A105/A105L
Computer Science ............................................................. CS A201/A202
Environmental Science ...................................................... ENVI A202 + 1 credit
GER-Natural Science Lab
Economics
Macroeconomics ............................................................. ECON A201
Microeconomics ............................................................... ECON A202
Languages
English Language and Composition .................................... ENGL A121
German Language ..................................................................... 8 credits lower-division
German elective
History
American History .............................................................. HIST A131/A132
European History ............................................................ HIST A102
World History ........................................................................ HIST A101/A102
Latin
Virgil ............................................................................. 4 credits lower-division
Latin elective
French Language ............................................................... FREN A101/A102
French Literature ............................................................ FREN A201/A202
German Language ............................................................. 8 credits lower-division
German elective
Government and Politics
American Government and Politics ................................... PS A101
Comparative Government and Politics .......................... PS A102
History
American History .............................................................. HIST A131/A132
European History ............................................................ HIST A102
World History ........................................................................ HIST A101/A102
Latin
Virgil ............................................................................. 4 credits lower-division
Latin elective
Music Theory ........................................................................ MUS A111
Music Listening and Literature ......................................... MUS A121
Physics
Physics B ........................................................................... PHYS A123/A123L
Physics C ........................................................................... PHYS A211/A211L
Psychology .............................................................................. PSY A111
Spanish
Level 3: Spanish Language .................................................. SPAN A101/A102
Level 3: Spanish Literature ................................................. SPAN A201/A202
Statistics .................................................................................. AS A252
COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)
An Official CLEP Transcript must be submitted to Enrollment Services.

1. General Exams
UAAlawards 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:

- English ................................................................. 0 Credits
  No Credit awarded
- English Composition with Essay ....................... 3 Credits
  ENGL 111 - GER
- Mathematics ......................................................... 3 Credits
  Lower Division Elective, Non-GER
- Natural Sciences .................................................... 6 Credits
  BIOL 102 - GER and
  Lower Division Elective, Non-GER
- Humanities ......................................................... 6 Credits
  Humanities and/or Fine Arts - GER
- Social Sciences ...................................................... 6 Credits
  Humanities - GER or
  Social Sciences - GER

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

2. Subject Exams
Credit awarded for subject exams is elective credit or, through agreements with departments, is equated to UAAcourses. 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 UAAcourses. 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 UAAcourses. An official copy of the student’s ACT-PEP scores must be submitted to Enrollment Services.

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>ACT (English)</th>
<th>SAT 1 Verbal</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLA111</td>
<td>22-29</td>
<td>530-619</td>
</tr>
<tr>
<td>ENGLA211*</td>
<td>30+</td>
<td>620+</td>
</tr>
<tr>
<td>ENGLA212*</td>
<td>30+</td>
<td>620+</td>
</tr>
<tr>
<td>ENGLA213*</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, ENGLA111 is waived as a prerequisite to higher-level composition courses. With the appropriate score, a student may enroll directly in ENGLA211, A212 or A213. 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>Math Course</th>
<th>ACT</th>
<th>SAT 1</th>
<th>ASSET</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH A055</td>
<td>(Math)</td>
<td>400-479</td>
<td>43-48</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.

To determine eligibility for graduation with honors, all credits and grades from repeated courses are included in GPA calculations.
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
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 UAAbut has not attended another institution (outside of the UAsystem) 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 of the UAsystem) 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 UAsystem) 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.

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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 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 PROGRAMS

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 UA 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 ADMISION 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 ADMISION 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 an associate degree program or the catalog in effect at the time of graduation.
5. If the requirements for an associate degree as specified in the entry-level catalog are not met within 5 years of formal acceptance into the program, 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.

**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.

<table>
<thead>
<tr>
<th>Classification</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Oral Communication Skills</td>
<td>3</td>
</tr>
<tr>
<td>COMM A111, Fundamentals of Oral Communication</td>
<td></td>
</tr>
<tr>
<td>COMM A235, Small Group Communication</td>
<td></td>
</tr>
<tr>
<td>COMM A237, Interpersonal Communication</td>
<td></td>
</tr>
<tr>
<td>COMM A241, Public Speaking</td>
<td></td>
</tr>
<tr>
<td>2. Written Communication Skills</td>
<td>6</td>
</tr>
<tr>
<td>ENGL A111, Methods of Written Communication</td>
<td></td>
</tr>
<tr>
<td>and one of the following:</td>
<td></td>
</tr>
<tr>
<td>CIOS A262, Written Business Communications</td>
<td></td>
</tr>
<tr>
<td>ENGL A211, Academic Writing About Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL A212, Technical Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL A213, Writing in the Social and Natural Sciences</td>
<td></td>
</tr>
</tbody>
</table>

3. General Requirements

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.

*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.

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.

<table>
<thead>
<tr>
<th>Applied Studies</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td></td>
</tr>
<tr>
<td>Aerospace Science (ROTC)</td>
<td></td>
</tr>
<tr>
<td>Agriculture</td>
<td></td>
</tr>
<tr>
<td>Alaska Outdoor and Experiential Education</td>
<td></td>
</tr>
<tr>
<td>Applied Technology</td>
<td></td>
</tr>
<tr>
<td>Architectural and Engineering Technology</td>
<td></td>
</tr>
<tr>
<td>Automotive and Diesel Technology</td>
<td></td>
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<tr>
<td>Aviation Technology</td>
<td></td>
</tr>
<tr>
<td>Business Administration</td>
<td></td>
</tr>
<tr>
<td>Civil Engineering</td>
<td></td>
</tr>
<tr>
<td>Community Education</td>
<td></td>
</tr>
<tr>
<td>Computer Information and Office Systems</td>
<td></td>
</tr>
<tr>
<td>Computer and Networking Technology</td>
<td></td>
</tr>
<tr>
<td>Culinary Arts</td>
<td></td>
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<tr>
<td>Dental Assisting</td>
<td></td>
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<tr>
<td>Dental Hygiene</td>
<td></td>
</tr>
<tr>
<td>Dietetics and Nutrition</td>
<td></td>
</tr>
<tr>
<td>Early Childhood Development</td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td></td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td></td>
</tr>
<tr>
<td>Electronics Technology</td>
<td></td>
</tr>
<tr>
<td>Emergency Medical Technology</td>
<td></td>
</tr>
<tr>
<td>Engineering Design and Drafting</td>
<td></td>
</tr>
<tr>
<td>Engineering Science</td>
<td></td>
</tr>
<tr>
<td>Engineering and Science Management</td>
<td></td>
</tr>
<tr>
<td>English-As-A-Second Language</td>
<td></td>
</tr>
<tr>
<td>Environmental Studies</td>
<td></td>
</tr>
</tbody>
</table>
Applied Studies (continued)
Family and Consumer Sciences
Fire Service Administration
Fisheries Technology
Floral Design
Geographic Information Systems
Geomatics
Health
Health Education and Training
Health Sciences
Human Services
Interior Design
Journalism and Public Communications
Justice
Library Science
Logistics Operations
Mechanical Technology
Marine 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 (PHILA101 only)
Physics

Social Sciences
Anthropology
Business Administration (BAA151 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 (PARLA101 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 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 GPA’s.

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.

   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.

6. 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 UA 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 organizing and communicating ideas and information through expository writing. Courses completed at UA 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 UA 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 UA 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
   - ASLA A101 Elementary American Sign Language I
   - ASLA A102 Elementary American Sign Language II
   - ASLA A201 Intermediate American Sign Language I
   - ASLA 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 A383 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
   - PHILA A101 Introduction to Logic
   - PHILA A201 Introduction to Philosophy
   - PHILA A211 History of Philosophy I
   - PHILA A212 History of Philosophy II
   - PHILA A301 Ethics
   - PHILA A313B Eastern Philosophy and Religion
   - PHILA A314 Western Religion
   - PS A331 Political Philosophy
   - PS A332 History of Political Philosophy I: Classical
   - PS A333 History of Political Philosophy II: Modern
   - RUS A101 Elementary Russian I
   - RUS A102 Elementary Russian II
   - RUS A201 Intermediate Russian I
   - RUS A202 Intermediate Russian II
   - SPA N A101 Elementary Spanish I
   - SPA N A102 Elementary Spanish II
   - SPA N A201 Intermediate Spanish I
   - SPA N 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
- BAA151 Introduction to Business
- ECON A201 Principles of Macroeconomics
- ECON A202 Principles of Microeconomics
- ENVI A201 Living on Earth: 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 United States I
- HIST A132 History of 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
- PARLA A101 Introduction to Law
- PS A101 Introduction to American Government
- PS A102 Introduction to Political Science
- PS A311 Comparative Politics
- PS A351 Political Sociology
- PSYA 111 General Psychology
- PSYA 150 Human 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
- BIOLA102 Introductory Biology
- BIOLA103 Introductory Biology Laboratory
- BIOLA105 Fundamentals of Biology I
- BIOLA106 Fundamentals of Biology II
- BIOLA111 Human Anatomy and Physiology I
- BIOLA112 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  
Administration (ADM), Room 236, (907) 786-1086

The University Honors Program is designed to provide enhanced educational opportunities for outstanding UAA students leading to a designation of “University Honors Scholar” upon graduation. Honors courses will approach the course subject matter with more intensity and rigor than is demanded of typical courses at that level. Honors students will also participate in 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 UA admission requirements.

2. Students must submit a completed University Honors Program application, including supporting documents, to the Program Office (ADM 236). 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 Enrollment Services, or 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 lower-division honors requirements listed in section 2 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, and are encouraged also to take the recommended courses if at all possible:

LOWER-DIVISION HONORS REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HNRS A110</td>
<td>Community and Cultural Awareness</td>
<td>1*</td>
</tr>
<tr>
<td>HNRS A192</td>
<td>Honors Seminar: Enduring Books</td>
<td>3</td>
</tr>
<tr>
<td>HNRS A210</td>
<td>Community Service</td>
<td>1*</td>
</tr>
<tr>
<td>HNRS A292</td>
<td>Honors Seminar: Modern American Culture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total lower-division honors credits required:</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Recommended:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Honors section of English</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Honors section of Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lower-division Statistics or Calculus</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total required + recommended lower-division honors credits:</td>
<td>17</td>
</tr>
</tbody>
</table>

UPPER-DIVISION HONORS REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HNRS A392</td>
<td>Honors Thesis Seminar</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>and one of the following options:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. HNRS A490 Senior Honors Seminar</td>
<td>6*</td>
</tr>
<tr>
<td></td>
<td>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)</td>
<td></td>
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<tr>
<td></td>
<td>and Senior thesis or project (3 credits minimum; either departmental thesis/project,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or HNRS A499 Honors Thesis),</td>
<td></td>
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<tr>
<td></td>
<td>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,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or HNRS A499 Honors Thesis)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D. Six-credit thesis/project (either departmental thesis/project, and HNRS A499 Honors Thesis).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total upper-division honors credits required:</td>
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</tr>
<tr>
<td></td>
<td>Total University Honors Program credits required (8 lower-division + 7 upper-division):</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Total University Honors Program credits required + recommended:</td>
<td>24</td>
</tr>
</tbody>
</table>

*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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Lisa Rieger, Associate Professor, AFLR@uaa.alaska.edu  
Margaret Simonian, Instructor
COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is dedicated to the principle that an enlightened understanding of the world is fostered by study of an individual’s physical environment, one’s cultural values and processes, one’s creative expressions, and one’s systems of thought and discovery. In fulfillment of this educational commitment, the fields of study offered by the College serve two ends: they are intellectually valuable in themselves and they are an essential complement to other fields of knowledge. The faculty are highly trained and energetic professionals who are here to impart the knowledge and skills of their academic disciplines both to majors within the College and to students in the various professional schools and the community. The formal means of communicating this knowledge and these skills are the courses and degree programs of the College.

The College welcomes applications from students who have just graduated from high school as well as from those who are continuing their higher education, whether to complete an associate or a baccalaureate degree or to undertake graduate studies. Students who wish to begin work on their degrees at another university or at a junior or community college and intend to transfer credits to the University of Alaska Anchorage should plan their course work in accordance with the General University Requirements and the requirements of the particular program in which they are interested in earning a degree.

Prospective transfer students, particularly those who have not decided upon a major, should pay special attention to the requirements of programs within the College of Arts and Sciences regarding the applicability of credits toward degrees.

HIGH SCHOOL PREPARATION

The following high school courses are recommended but not necessarily required in preparation for admission to the various programs within the College of Arts and Sciences:

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

**Mathematics**

| **BA candidates** | Three years with emphasis on Algebra I and II, Trigonometry, Geometry, Analysis. |
| **BS candidates** | Four years with emphasis on Algebra I and II, Trigonometry, Geometry, Analysis. |

**Science**

| **BA candidates** | Two to three years with emphasis in Biology, Chemistry, Physics, Geology, and/or Earth Science. |
| **BS candidates** | Three to four years with emphasis in Biology, Chemistry, Physics, Geology, and/or Earth Science. |

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

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

**Arts**
One to two years with emphasis in basic and fundamental courses in the Arts with more advanced courses dependent upon students’ particular interest.

**Computer Science**
One to two years. Basic knowledge of computer science recommended for all college-bound students.

**COLLEGE OF ARTS AND SCIENCES REQUIREMENTS**

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

**Electives**
No more than 6 credits in lower-division physical education courses (EDPE) and/or Alaska Outdoor and Experiential Education courses (AOEE) may be applied toward a BA or BS degree program offered by the College of Arts and Sciences.

**BACHELOR OF ARTS**
The Bachelor of Arts degree is a liberal arts degree. The basic assumption of a liberal arts degree is that a broad knowledge base will serve the student over a lifetime.

**A. Cultural Heritages**

| **1. Comparative Cultures** | 3 |
| **2. Western Culture** | 6 |
| **3. American Culture** | 3 |

**B. Arts and Letters**

| **1. Introduction to Literature** | 3 |
| **2. Language/Humanities** | 6-8 |

Any two semester sequence in one of the following humanities sequences or in a language other than English:

| **(ENGLA201-A202, MUS A221-A222, PHILA211-A212, PHILA313B-A314, PS A332-A333, THR A311-A312, THR A311-A312)** |  |

*BA music majors must select courses outside their major.*

**C. Ways of Knowing**

| **(ENGLA120, PHILA101, PHILA201, PHILA301, PHILA421)** | 3 |

**D. Social Behavior**

| **Choose one of the following not in the major:** | 3 |
| **(ANTH A101, COMM A101, ECON A201, JPC A101, PS A102, PSYA111, 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, ENGLA201-A202, 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
   BIOLA102, A103, A105, A106, A111, A112, A113, A114
   CHEM A103/L, A104/L, A105/L, A106/L
   GEOA111, 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.

BACHELOR OF LIBERAL STUDIES

The new Bachelor of Liberal Studies is in the final stages of curriculum review. It is anticipated that this program will be available Fall 2001.

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
   ENGLA111 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
   CIOS A262 Written Business Communications

3. Applied Studies* 3
4. Humanities* 3
5. Math and Natural Sciences* 3
6. Social Sciences* 3
7. Electives* 15
Total Minimum Credits 60

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
   ENGLA111 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

3. Applied Studies* 3
4. Humanities* 3
5. Math and Natural Sciences* 3
6. Social Sciences* 3
7. Electives* 15
Total Minimum Credits 60

*Consult the Associate Degree Course Classifications list.
ALASKA NATIVE STUDIES

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/PS A346 Alaska Native Politics (3)
      - AKNS/PS A411 Tribes, Nations and Peoples (3)
   B. Language Focus (8 credits):
      - AKNS A101 Alaska Native Languages I (4)
      - AKNS A102 Alaska Native Languages II (4)

3. Complete a minimum of 6 credits from the following:
   - 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 A247 Ethno-History of Alaska Natives (3)
   - ANTH A245 Northwest Coast Cultures (3)
   - ANTH A246 Aleut Adaptations (3)
   - ART A365 Native Art of Alaska (3)
   - EDPE A145 Alaska Native Survival Techniques (3)
   - ENGLA344 Topics in Native Literatures (3)
   - ENGLA445 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, AVANS@uaa.alaska.edu
Edgar Blatchford, Assistant Professor, AFEPB@uaa.alaska.edu

ANTHROPOLOGY

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)

Of the following ethnographic area courses which emphasize archaeology, no more than 6 credits can be used to satisfy the ethnographic area requirement:
   - ANTH A312 North American Archaeology (3)
   - ANTH A330 Ancient Civilizations of Mexico and Guatemala (3)
   - ANTH A413 Peopling of the Americas (3)
   - ANTH A416 Arctic Archaeology (3)

5. Complete two courses from the following topical/theoretical courses (6 credits):
   - ANTH A270 Cross-Cultural Perspectives on Women (3)
   - ANTH A324 Culture and Personality (3)
   - ANTH A350 Survey of the Primates (3)
   - ANTH A354 Culture and Ecology (3)
   - ANTH A365 Races: Modern Human Diversity (3)
   - ANTH A400 Anthropology of Religion (3)
   - ANTH A415 Applied Anthropology (3)
   - ANTH A432 Hunting and Gathering Societies (3)
   - ANTH A445 Evolution of Humans and Disease (3)
   - ANTH A450 Human Evolution (3)
   - ANTH A455 Medical Anthropology (3)
   - ANTH/JUST A456 Anthropology and the Law (3)
   - ANTH A457 Food and Nutrition: An Anthropological Perspective (3)
   - ANTH A480 Analytical Techniques in Archaeology (3)
   - ANTH A482 Historical Archaeology (3)
   - ANTH A485 Human Osteology (3)

6. Anthropology Electives (6 credits):
   - 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.

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**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

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)

Of the following Ethnographic area courses which emphasize archaeology, no more than 6 credits can be used to satisfy the ethnographic area requirement:
   - ANTH A312 North American Archaeology (3)
   - ANTH A330 Ancient Civilizations of Mexico and Guatemala (3)
   - ANTH A413 Peopling of the Americas (3)
   - ANTH A416 Arctic Archaeology (3)

5. Complete two courses from the following topical/theoretical courses (6 credits):
   - ANTH A270 Cross-Cultural Perspectives on Women (3)
   - ANTH A324 Culture and Personality (3)
   - ANTH A350 Survey of the Primates (3)
   - ANTH A354 Culture and Ecology (3)
   - ANTH A365 Races: Modern Human Diversity (3)
   - ANTH A400 Anthropology of Religion (3)
   - ANTH A415 Applied Anthropology (3)
   - ANTH A432 Hunting and Gathering Societies (3)
   - ANTH A445 Evolution of Humans and Disease (3)
   - ANTH A450 Human Evolution (3)
   - ANTH A455 Medical Anthropology (3)
   - ANTH/JUST A456 Anthropology and the Law (3)
   - ANTH A457 Food and Nutrition: An Anthropological Perspective (3)
   - ANTH A480 Analytical Techniques in Archaeology (3)
   - ANTH A482 Historical Archaeology (3)
   - ANTH A485 Human Osteology (3)

6. Anthropology Electives (6 credits):
   - 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)
     or
   - AS A253 Applied Statistics for the Sciences (4)

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

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

**Recommended Course Sequence**

**First Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH A101</td>
<td>Introduction to Anthropology</td>
</tr>
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<td>GER</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH A202</td>
<td>Cultural Anthropology</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH A205</td>
<td>Biological Anthropology</td>
</tr>
<tr>
<td>ANTH A211</td>
<td>Fundamentals of Archaeology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH A250</td>
<td>Rise of Civilizations</td>
</tr>
<tr>
<td>ANTH A260</td>
<td>Old World Archaeology</td>
</tr>
</tbody>
</table>

**Third Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th></th>
</tr>
</thead>
</table>
| AS A252     | Elementary Statistics  
| or          | Probability and Statistics  
| 1 or 2 upper-division Anthropology courses |

<table>
<thead>
<tr>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2 or 3 upper-division Anthropology courses</td>
<td></td>
</tr>
</tbody>
</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2 or 3 upper-division Anthropology courses</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th></th>
</tr>
</thead>
</table>
| ANTH A410   | History of Anthropology  
| 1 or 2 upper-division Anthropology courses |

**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 A211 Fundamentals of Archaeology (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.

**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:
   - 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**

Kerry Feldman, Professor, AFKDF@uaa.alaska.edu  
Christine Hanson, Associate Professor, AFCLH@uaa.alaska.edu  
Steve Langdon, Professor, AFSLJ@uaa.alaska.edu  
Douglas Veltre, Professor, AFDWV@uaa.alaska.edu  
William Workman, Professor, Chair, AFWBW@uaa.alaska.edu  
David Yesner, Professor, AFDRY@uaa.alaska.edu

**APPLIED STATISTICS**

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

College of Arts & Sciences Building (CAS), Room 154,  
(907) 786-1742/4824

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

During the past several decades, the social and economic structure of the United States has shifted from an industrialized base to an information and service base. Rapid development of computer technology has led to an increase in the use of statistics as a tool for analyzing data across all disciplines. Increasing demand exists for individuals with training in statistical analysis. The unprecedented growth of research institutes nationwide confirms the importance of sampling and statistical analysis.

Statistics is now widely used in a broad spectrum of disciplines. There is, and will continue to be, substantial demand among students and various entities within the community for this program.

**MINOR, APPLIED STATISTICS**

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

Kanapathi Thiru, Associate Professor, AFKT@uaa.alaska.edu  
Derek Webb, Assistant Professor, AFDFW1@uaa.alaska.edu
The aim of the Department of Art is to prepare and empower students to use their artistic abilities to make a difference in society. A comprehensive multi-studio approach encourages independent thinking, strengthens creativity and develops a knowledge of the critical and historical aspects of art. Students acquire technical skills and gain confidence to work with a variety of materials while exploring and evaluating the 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 BAdegree 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 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)

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 (21 Credits):

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

<table>
<thead>
<tr>
<th>Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Painting</td>
<td></td>
</tr>
<tr>
<td>Photography</td>
<td></td>
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<tr>
<td>Illustration</td>
<td></td>
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<tr>
<td>Drawing</td>
<td></td>
</tr>
<tr>
<td>Printmaking</td>
<td></td>
</tr>
<tr>
<td>Jewelry/Metalsmithing</td>
<td></td>
</tr>
<tr>
<td>Sculpture</td>
<td></td>
</tr>
<tr>
<td>Ceramics</td>
<td></td>
</tr>
<tr>
<td>Fibers*</td>
<td></td>
</tr>
</tbody>
</table>

*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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILA401 Aesthetics</td>
<td>3</td>
</tr>
<tr>
<td>Upper-division General Electives</td>
<td>18</td>
</tr>
</tbody>
</table>

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

Recommended Course Sequence

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 programs.
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. 21
4. Complete a total of 9 upper-division credits in a secondary area
of studio emphasis from the list below: 9
Painting  Ceramics
Photography  Sculpture
Jewelry/Metalsmithing  Fibers*
Drawing  Graphic Design
Printmaking  Illustration
*Note: All courses in Fibers are currently taught at the Matanuska-Susitna College and
Kenai Peninsula College campuses
5. Complete 9 credits in upper-division Art History 9
6. Complete 15 credits in Studio Art courses, any level 15
7. Prepare and present a Thesis Project (ART A499) 3
8. Complete PHILA401 Aesthetics 3
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 3
ART A111*** 3
ENGLA111* 3
General Education Requirement 6
Spring Semester (15 credits)
ART A205 3
ART A113*** 3
ENGLA211* 3
General Education Requirement 6
Second Year
Fall Semester (16 credits)
ART Beginning 2D or 3D Studio 3
ART Beginning 2D or 3D Studio 3
ART Beginning 2D or 3D Studio 3
ART A261* 3
General Education Requirement** 4
Spring Semester (15 credits)
ART Studio Art Elective 3
ART Studio Art Elective 3
ART Primary Emphasis Intermediate Studio 3
AT A262* 3
General Education Requirement 3

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

Fourth Year
Fall Semester (15 credits)
ART Primary Emphasis Advanced Studio 3
ART Primary Emphasis Support Course 3
ART Secondary Emphasis Advanced Studio 3
ART Studio Art Elective 3
PHILA401 Aesthetics* 3
Spring Semester (15 credits)
ART Primary Emphasis Advanced Studio 3
ART Primary Emphasis Support Course 3
ART Upper-division Art History 3
ART A499 Thesis 3
General Education Requirement 3

* 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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Robert Banker, Assistant Professor
Christine Erikson, Assistant Prof, AFCAE@uaa.alaska.edu
Steven Godfrey, Faculty/Technician, AFSGM@uaa.alaska.edu
Mariano Gonzales, Associate Professor
Garry Kaulitz, Associate Professor, AFGCK@uaa.alaska.edu
B. Hugh McPeck, Assistant Professor
Bill Sabo, Assistant Professor
Deborah Tharp, Assistant Professor, AFDKT@uaa.alaska.edu
Kat Tomka, Assistant Professor, AFKAT@uaa.alaska.edu
BIOLOGICAL SCIENCES

www.uaa.alaska.edu/biomed/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.

BIOLA074 Field Natural History
BIOLA075 Local Flora
BIOLA124 Biota of Alaska: Selected Topics
BIOLA126 Birds in Field and Laboratory
BIOLA150 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.

BIOLA100 Human Biology
BIOLA102 Introductory Biology
BIOLA103 Introductory Biology Laboratory
BIOL/GEOLA104 Natural History of Alaska
BIOLA111 Human Anatomy and Physiology I
BIOLA112 Human Anatomy and Physiology II
BIOLA113 Lectures in Human Anatomy and Physiology I (= BIOLA111 lecture without the lab)
BIOLA114 Lectures in Human Anatomy and Physiology II (= BIOLA112 lecture without the lab)
BIOLA240 Introductory Microbiology for Health Sciences
BIOLA241 Lectures in Introductory Microbiology for Health Sciences (= BIOLA240 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):
   - BIOLA105 Fundamentals of Biology I 4
   - BIOLA106 Fundamentals of Biology II 4
   - BIOLA242 Fundamentals of Cell Biology 4
   - BIOLA252 Principles of Genetics 4
   - BIOLA310 Animal Physiology 3
   - BIOLA492 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:
   - GEOLA111 Physical Geology (4)
   - GEOLA112 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.

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):
   - BIOLA105 Fundamentals of Biology I 4
   - BIOLA106 Fundamentals of Biology II 4
   - BIOLA242 Fundamentals of Cell Biology 4
   - BIOLA252 Principles of Genetics 4
   - BIOLA308 Principles of Evolution 3
   - BIOLA310 Animal Physiology 3
   - BIOLA340 General Microbiology 5
   - BIOLA371 Principles of Ecology 4
   - BIOLA492 Undergraduate Seminar 1
4. Complete 11-12 credits of upper-division program electives from the following list:

NOTE: Preprofessional students may substitute CHEM A441-A442 Principles of Biochemistry and A443 Biochemistry Laboratory for 8 upper-division biology credits.

A. Recommended electives in Cellular and Molecular Biology:

   Cellular-Molecular
   BIOLA310 Animal Physiology (3)
   or
   BIOLA352 Human Genetics (3)
   BIOLA412 Endocrinology (3)
   BIOLA461 Molecular Biology (3)
   BIOL/Chem A471 Immunochemistry (4)
   BIOLA488 Developmental Biology (4)

   Zoology
   BIOLA327 Parasitology (4)
   BIOLA487 Comparative Anatomy of Vertebrates (4)

   Techniques
   BIOLA403 Microtechnique (4)
   BIOLA495 Instructional Practicum: Laboratory (1)

B. Recommended elective courses in Organismal, Ecology and Evolutionary Biology:

   Botany
   BIOLA331 Systematic Botany (4)
   BIOLA333 Biology of Non-Vascular Plants (4)
   BIOLA334 Biology of Vascular Plants (4)
   BIOLA439 Plant Ecology Field Course (3)

   Zoology
   BIOLA327 Parasitology (4)
   BIOLA423 Ichthyology (4)
   BIOLA425 Mammalogy (4)
   BIOLA426 Ornithology (4)
   BIOLA427 Invertebrate Zoology (4)
   BIOLA487 Comparative Anatomy of Vertebrates (4)

   Ecology-Systems
   BIOLA409 Biogeography (3)
   BIOLA310 Animal Physiology (3)
   BIOLA373 Environmental Biology (3)
   BIOLA375 Terrestrial Ecosystems (3)
   BIOLA478 Marine Biology (3)
   BIOLA441 Animal Behavior (4)
   BIOLA475 Arctic Tundra Ecosystems (3)
   BIOLA476 Boreal Ecosystems (3)

   Techniques
   BIOLA403 Microtechnique (4)
   BIOLA495 Instructional Practicum: Laboratory (1)

C. Special topics, independent study and individual research (credits arranged):

   BIOLA497 Independent Study in Biology
   BIOLA498 Individual Research

5. A total of 122-125 credits is required for the degree, of which 42 credits must be upper-division.

Bachelor of Science, Natural Sciences

The Department of Biological Sciences also oversees the Bachelor of Science in Natural Sciences. This curriculum emphasizes the interrelationships among the sciences. This flexible degree program can be used to meet admissions requirements of specific professional schools in medicine, dentistry, and veterinary medicine. It is also designed for health sciences practitioners who wish to obtain a stronger background in both the biological and chemical sciences.

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.

   BIOLA105 Fundamentals of Biology I 4
   BIOLA106 Fundamentals of Biology II 4
   BIOLA242 Fundamentals of Cell Biology 4
   BIOLA252 Principles of Genetics 4
   Upper-division Biology electives 12

FACULTY

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Bjartmar Sveinbjornsson, Professor, AFBS@uaa.alaska.edu
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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):
   - INTLA301 Canada: Introductory Survey 3
   - INTLA302 Canada: Contemporary Issues 3
   - INTLA303 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 INTLA302, 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)
ECON A435 Economics of Resources (3)
ECON A463 International Economics (3)
ENGL A383 Film Interpretation (3)
ENGL A440 Topics in 20th Century Comparative Literature (3)
FREN A432 Studies of Literature and Culture (3)
GEOG A207B Edge of Fire: A Physical Geography of the American West (3)
HIST A341 History of Alaska (3)
HIST A431 Colonies and Revolution (3)
HIST A434 Early National Period: 1800-1850 (3)
INTLA A303 Canada: Selected Topics (3)
INTLA A304 Canada: Field Study Tour (1)
INTL/HIST A374 History of Canada to 1867 (3)
INTL A375 History of Canada Since 1867 (3)
JUST A365 Comparative Justice Systems (3)
PS A312 Comparative Politics: Case Studies (3)
PS A321 International Relations (3)
PS/AKNS A411 Tribes, Nations and Peoples (3)
PS A424 International Law and Organization (3)
PS A490 Studies in Politics (1-3)

FACULTY

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

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

Complete the following required courses (73 credits):

- CHEM A105 General Chemistry I 3
- CHEM A105L General Chemistry I Lab 1
- CHEM A106 General Chemistry II 3
- CHEM A106L General Chemistry II Lab 1
- CHEM A212 Quantitative Analysis 5
- CHEM A311 Physical Chemistry: A Biological Orientation 3
- CHEM A321 Organic Chemistry I 4
- CHEM A322 Organic Chemistry II 4
- CHEM A343 Instrumental Methods 4
- CHEM A441 Principles of Biochemistry I 3
- CHEM A442 Principles of Biochemistry II 3
- CHEM A443 Biochemistry Laboratory 2
- CHEM A492 Undergraduate Seminar (1) 2
- CHEM A498 Individual Research (3) 6
- MATH A200 Calculus I 4
- MATH A201 Calculus II 4
- MATH A202 Calculus III 4
- PHYS A123/L Basic Physics I (4) 8
  or
- PHYS A124/L Basic Physics II (4)
- or
- PHYS A211/L General Physics I (4) 4
- PHYS A212/L General Physics II (4)
- 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.

- CHEM A105 General Chemistry I 3
- CHEM A105L General Chemistry I Lab 1
- CHEM A106 General Chemistry II 3
- CHEM A106L General Chemistry II Lab 1
- CHEM A212 Quantitative Analysis 5
- CHEM A311 Physical Chemistry: A Biological Orientation (3)
  or
- CHEM A331 Physical Chemistry I (3)
- CHEM A321 Organic Chemistry I 4
- CHEM A322 Organic Chemistry II 4

FACULTY

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COMMUNICATION

www.uaa.alaska.edu/comm/

Classroom Building K (K), Room 205, (907) 786-4390

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

MINOR, COMMUNICATION

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

Select 9 credits from the following:

- COMM A101 Introduction to Human Communication (3)
- COMM A111 Fundamentals of Oral Communication (3)
- COMM A235 Small Group Communication (3)
- COMM A237 Interpersonal Communication (3)
- COMM A241 Public Speaking (3)

Select 9 credits from the following:

- COMM A236 Interviewing (3)
- COMM A305 Intercultural Communication (3)
- COMM A320 Debate and Deliberation (3)
- COMM A340 Nonverbal Communication (3)
- COMM A346 Oral Interpretation (3)
- COMM A360 Forensics (3)
- COMM A380 Theories of Human Communication (3)
- COMM A390 Selected Topics in Communication (3)
- COMM A412 Persuasion (3)

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

FACULTY

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Shawnalee Whitney, Assistant Professor, AFSAW@uaa.alaska.edu
COMPUTER SCIENCE

www.math.uaa.alaska.edu
College of Arts & Sciences Building (CAS), Room 154,
(907) 786-1742/4824

The Department of Mathematical Sciences offers courses covering the major areas of computer science. These courses constitute the basis for an undergraduate major which 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.

Students interested in computer science will be advised with respect to computer science courses by the department so they may profitably pursue their academic and professional interests.

Since computer science is a very diverse discipline, four different degree paths are offered. There are three Bachelor of Science options: Scientific Computing, Computer Science, and Information Science; there is also a Bachelor of Arts in Computer Science. All of the paths provide a solid foundation in computer science that conforms to the 1991 computing curriculum guidelines jointly developed by the Association for Computing Machinery (ACM) and IEEE Computer Society. The paths differ in the set of advanced topics courses used to specialize the degree. Two computer science degree paths are very similar, the Bachelor of Arts in Computer Science, and the Information Sciences Option of the Bachelor of Science. The BA program gives the student the opportunity to obtain a liberal arts background while the BS path requires the student to pursue a sciences background. Both of these paths prepare the student to pursue a professional career as a software engineer. The Computer Science option of the Bachelor of Science is a traditional computer science program; this option provides the student with a broad technical background in computer science which will serve both the student pursuing a career as a software professional and the student intending to pursue a graduate degree in computer science. The Scientific Computing option prepares the student for a career in scientific or engineering computing; this option provides the student with the concepts and techniques needed to model and analyze complex, real-world systems.

Each student taking any computer science course(s) will be charged a single lab fee for the semester. (Applies to Elmendorf or Fort Richardson classes only when specifically annotated in the schedule. This fee does not apply to Eagle River computer science courses).

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 (46 credits):
   - CS A101 Introduction to Computer Science 3
   - CS A201 Programming Concepts I 3
   - CS A202 Programming Concepts II 3
   - EE A241 Computer Hardware Concepts I 4
   - CS A221 Computer Organization and Assembly Programming 3
   - CS A315 Information Systems 3
   - CS A320 Operating Systems 3
   - CS A330 Data Structures and Algorithms 3
   - CS A331 Programming Language Concepts 3
   - CS A360 Database Systems 3
   - CS A371 Quantitative Methods for the Information Sciences 3
   - CS A401 Software Engineering 3
   - CS A413 Computer and Data Security 3
   - CS A414 Information Systems Planning and Management 3
   - CS A470 Applied Software Development Project 3

2. Complete these required support courses (15-17 credits):
   - MATH A231 Introduction to Discrete Mathematics 3
   - MATH A270 Applied Finite Mathematics for the Managerial Sciences (3) or
   - MATH A107 College Algebra (4)
   - MATH A272 Calculus for Managerial Sciences (3) or
   - MATH A200 Calculus I (4)
   - AS A252 Elementary Statistics (3) or
   - AS A307 Probability and Statistics (3)
   - ENGL A312 Advanced Technical Writing (3) or
   - ENGL A414 Research Writing (3)
3. Complete an additional 15 upper-division credits in Computer Science, Mathematics (excluding MATH A420, and MATH A495), or Applied Statistics. Six of these credits must be earned in Computer Science courses.

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. The program, including electives, must be approved by an academic advisor from the Mathematical Sciences Department. Students are encouraged to develop their program with a Mathematical Sciences advisor early in their studies; failure to do so may cause delay in graduation or require taking additional courses.

6. A total of 122-124 credits is required for the degree, of which 42 credits must be upper-division.

**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.

**D. MAJOR REQUIREMENTS**

1. Complete the following core courses (28 credits):

   - CS A101 Introduction to Computer Science 3
   - CS A201 Programming Concepts I 3
   - CS A202 Programming Concepts II 3
   - EE A241 Computer Hardware Concepts I 4
   - CS A221 Computer Organization and Assembly Programming 3
   - CS A320 Operating Systems 3
   - CS A330 Data Structures and Algorithms 3
   - CS A331 Programming Language Concepts 3
   - CS A470 Applied Software Development Project 3

2. Complete the following required support courses (29 credits):

   - MATH A200 Calculus I 4
   - MATH A201 Calculus II 4
   - MATH A202 Calculus III 4
   - MATH A231 Introduction to Discrete Mathematics 3
   - AS A307 Probability and Statistics 3
   - PHYS A123/L Basic Physics I (4) 4
   - PHYS A124/L Basic Physics II (4) 4
   - PHYS A212/L General Physics I (4)
   - PHYS A211/L General Physics II (4)
   - ENGLA312 Advanced Technical Writing (3) 3
   - ENGLA414 Research Writing (3) 3

3. Take all required courses in one of the three options listed below (18 credits):

   **Information Sciences Option**
   - CS A315 Information Systems 3
   - CS A360 Database Systems 3
   - CS A371 Quantitative Methods for the Information Sciences 3
   - CS A401 Software Engineering 3
   - CS A413 Computer and Data Security 3
   - CS A414 Information Systems Planning and Management 3

   **Scientific Computing Option**
   - CS A310 Numerical Methods 3
   - CS A381 Optimization Techniques 3
   - CS A430 Computer Modeling and Simulation 3
   - MATH A302 Ordinary Differential Equations 3
   - MATH A314 Linear Algebra 3
   - MATH A371 Probability Models 3

   **Computer Science Option**
   - CS A411 Design and Analysis of Algorithms 3
   - CS A431 Compilers: Concepts and Techniques (3) 3
   - CS A448 Computer Architecture (3)
   - CS A450 Automata, Languages and Computability 3
   - MATH A306 Ordinary Differential Equations 3
   - MATH A314 Linear Algebra 3
   - MATH A371 Probability Models 3

4. Complete an additional 12 upper-division credits in Computer Science, Mathematics (excluding MATH A420, and MATH A495) or Applied Statistics. Six of these credits must be earned in Computer Science courses.

5. A grade of “C” or higher must be received in all MATH, CS, and AS courses required to satisfy the above program requirements.

6. The program, including electives, must be approved by an academic advisor from the Mathematical Sciences Department. Students are encouraged to develop their program with a Mathematical Sciences advisor early in their studies; failure to do so may cause delay in graduation or require taking additional courses.

7. A total of 122 credits is required for the degree, of which 42 credits must be upper-division.

**MINOR, COMPUTER SCIENCE**

Students majoring in another subject who wish to minor in Computer Science must complete the following requirements:

1. Complete the five required courses:

   - CS A101 Introduction to Computer Science 3
   - CS A201 Programming Concepts I 3
   - CS A202 Programming Concepts II 3
   - EE A241 Computer Hardware Concepts I 4
   - CS A221 Computer Organization and Assembly Programming 3

2. Complete 9 credits of upper-division Computer Science courses.

3. A total of 25 credits is required for the minor.

**FACULTY**

William Gordon, Associate Professor, AFWLG@uaa.alaska.edu
Kenrick Mock, Assistant Professor, AFKJM@uaa.alaska.edu
Patrick O’Leary, Assistant Professor
Kirk Scott, Assistant Professor, AFKAS@uaa.alaska.edu
CREATIVE WRITING AND LITERARY ARTS

aycwla@uaa.alaska.edu
www.uaa.alaska.edu/ucwla/
College of Arts and Sciences Room 378, (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
   - CWLAA259 Short Format Introduction to Creative Writing (1)
   - CWLAA260 Introduction to Creative Writing (3)
   - CWLAA261 Art/Literary Magazine Production (3)
   - CWLAA352 Undergraduate Writer’s Workshop: Poetry (3)
   - CWLAA362 Undergraduate Writer’s Workshop: Fiction (3)
   - CWLAA372 Undergraduate Writer’s Workshop: Nonfiction (3)
   - CWLAA382 Undergraduate Writer’s Workshop: Drama for Stage and Screen (3)
2. Complete 6 credits from the following: 6
   - CWLAA461 Writing and Gender (3)
   - CWLAA490 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
   - CWLAA259 Short Format Introduction to Creative Writing (1)
   - CWLAA260 Introduction to Creative Writing (3)
   - CWLAA261 Art/Literary Magazine Production (3)
   - CWLAA352 Undergraduate Writer’s Workshop: Poetry (3)
   - CWLAA362 Undergraduate Writer’s Workshop: Fiction (3)
   - CWLAA372 Undergraduate Writer’s Workshop: Nonfiction (3)
   - CWLAA382 Undergraduate Writer’s Workshop: Drama for Stage and Screen (3)
2. Complete 6 credits from the following: 6
   - CWLAA461 Writing and Gender (3)
   - CWLAA490 The Writer’s Craft (3)
3. Complete the following required project: 3
   - CWLAA499 Thesis (3)
4. A total of 18 credits is required for the minor.

FACULTY
Ronald Spatz, Chair/Professor, AFRMS1@uaa.alaska.edu
Sherry Simpson, Professor
Linda McCarriston, Professor, AFLJM@uaa.alaska.edu

ENGLISH
www.engl.ualaska.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 and meet the following requirements:
1. Satisfy all requirements for a BAdegree in English (literature or rhetoric option).
2. Maintain a grade-point average of 3.8 in all English courses. Maintain an overall GPA of 3.7.
3. Be formally admitted to the English Honors Program and satisfy the requirements detailed below.

Admission
Complete 15 credits in upper-division English courses. Submit an application packet which includes a letter requesting admission to the English Honors program and describing student’s educational and career goals, as well as a paper of eight pages or more from an upper-division English course. The application packet will be reviewed by the English Honors Admissions Committee, with admission based on an overall evaluation of the student’s probability of success in the Honors program and not any single criterion or formula. Applicants will be ranked and 12-15 students will be admitted to ENGLA492.
Honors Seminar: Complete ENGLA492, English Honors Seminar, offered yearly in the fall semester. Completion of the English Honors Seminar with a grade of A or B is a prerequisite to enrollment in ENGLA499, English Honors Thesis.

Honors Thesis: Complete ENGLA499, English Honors Thesis, with a grade of A in the judgment of two faculty readers. The thesis must be completed under the guidance of a member of the English faculty and should be 40-50 pages in length.

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):

   ENGLA201 Masterpieces of World Literature I 3
   ENGLA202 Masterpieces of World Literature II 3
   ENGLA351 Poetry 3
   ENGLA424 Shakespeare 3
   ENGLA435 History of Criticism 3

2. Complete one of the following options.

   Literature Option (24 credits)

   Complete 3 credits from National Literatures: 3
   ENGLA301 Literature of Britain I (3)
   ENGLA302 Literature of Britain II (3)
   ENGLA305 Topics in National Literatures (3)
   ENGLA306 Literature of the United States I (3)
   ENGLA307 Literature of the United States II (3)

   Complete 3 credits from each Period 9
   Early
   ENGLA310 Ancient Literature (3)
   ENGLA315 Medieval Literature (3)
   ENGLA320 Renaissance Literature (3)
   Middle
   ENGLA325 Neoclassical Literature (3)
   ENGLA330 Literature of Romanticism (3)
   ENGLA340 The Victorian Period (3)
   Late
   ENGLA342 The Modernist Period (3)
   ENGLA343 Contemporary Literature (3)
   ENGLA440 Topics in 20th Century Comparative Literature (3)

   Complete 3 credits from Genre: 3
   ENGLA361 The Novel (3)
   ENGLA363 The Short Story (3)
   ENGLA371 Prose Nonfiction (3)
   ENGLA381 Drama (3)
   ENGLA383 Film Interpretation (3)
   ENGLA391 Genres of Subject and Theme (3)

   Complete 3 credits from Specialized Studies: 3
   ENGLA344 Topics in Native Literatures (3)
   ENGLA403 Topics in Autobiography (3)
   ENGLA404 Topics in Women’s Literature (3)
   ENGLA429 Major Authors (3)
   ENGLA445 Alaska Native Literatures (3)

   Complete upper-division English electives 6

   Rhetoric and Language Option (25 credits)

   Complete 6 credits from Nature of Language: 6
   LING A101 The Nature of Language (3)
   LING A201 Understanding Grammar (3)

   Complete 6 credits from Advanced Composition: 6
   ENGLA311 Advanced Composition (3)
   ENGLA312 Advanced Technical Writing (3)
   ENGLA313 Professional Writing and Editing (1-3)
   ENGLA414 Research Writing (3)

   Complete the following: 3
   ENGLA434 History of Rhetoric (3)

   Complete 3-4 credits from Applied Linguistics: 3/4
   ENGLA450 Linguistics and Language Teaching (4)
   ENGLA452 English Grammar and Language Teaching (4)
   ENGLA487 Standard Written English (3)

   Complete 3 credits from Rhetoric and Language Theory: 3
   ENGLA475 Modern Grammar (3)
   ENGLA476 History of English Language (3)
   ENGLA491 Topics in Composition and Rhetoric (3)

   Complete 3 credits upper-division elective: 3
   ENGLA495 Internship in Professional Writing (1-3)
   (Recommended)

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

RECOMMENDED COURSE SEQUENCE

Bachelor of Arts (Literature Option)
First Year

Fall Semester (15 credits)

ENGLA111 3
Oral Communications GER
Cultural Heritages GER
Fine Arts GER
Elective

Spring Semester (15 credits)

ENGLA 211 3
ENGLA201 or A202 3
Cultural Heritages GER
Social Behavior GER or Ways of Knowing GER
Elective

Second Year

Fall Semester (15 credits)

ENGLA201 or A202 3
Ways of Knowing GER or Social Behavior GER
Cultural Heritages GER
Natural Sciences GER
Elective

Spring Semester (15 credits)

ENGLA351 or ENGLA Genre Course 3
ENGLA National Literatures or ENGL Period* Course 3
Cultural Heritages GER
Natural Sciences GER
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<tr>
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<tr>
<td>ENGL Period* or ENGL National Literatures Course</td>
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<td>Quantitative Skills GER</td>
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<td><strong>Spring Semester (15 credits)</strong></td>
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<td>ENGL Specialized Studies Course or ENGL Period* Course</td>
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<tr>
<td>ENGLA424 or ENGL300-400 Level Elective Course</td>
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<td><strong>Fourth Year</strong></td>
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<td>ENGL300-400 Level Elective or ENGLA424</td>
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<td>ENGLA35 or ENGL300-400 Level Elective Course</td>
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</table>

* The Literature Emphasis requires three period courses: one Early Period course, one Middle Period course, one Late Period course. Early Period courses include ENGLA310, A315, A320. Middle Period courses include ENGLA325, A330, A340. Late Period courses include ENGLA342, A343, A440. At least one course from each period category is offered each Fall and Spring semester.

**RECOMMENDED COURSE SEQUENCE:**

**Bachelor of Arts in English (Rhetoric and Language Option)**

<table>
<thead>
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<td><strong>Spring (15 credits)</strong></td>
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<td>ENGL A212 or A213 or A214</td>
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<td>Social Behavior GER or Ways of Knowing GER</td>
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<table>
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<tr>
<td>Ways of Knowing GER or Social Behavior GER</td>
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<tr>
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<tr>
<td>Natural Sciences GER</td>
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<td>2</td>
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<tr>
<td><strong>Spring (15 credits)</strong></td>
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</tr>
<tr>
<td>LING A201 or ENGLA351</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH Literature in Translation or ENGL Early Period Course</td>
<td>3</td>
</tr>
<tr>
<td>Cultural Heritages GER</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences GER</td>
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<tr>
<th><strong>Third Year</strong></th>
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<tbody>
<tr>
<td><strong>Fall (15 credits)</strong></td>
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<tr>
<td>ENGLA351 or LING A201</td>
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<tr>
<td>ENGL Early Period or ENGLISH Literature in Translation Course</td>
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<tr>
<td>ENGLISH Language Course or 300-400 Level Elective</td>
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<td>Quantitative Skills GER</td>
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<td><strong>Spring (15 credits)</strong></td>
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<tr>
<td>ENGLA434</td>
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<tr>
<td>ENGLA424 or ENGL Advanced Composition Course</td>
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</tr>
<tr>
<td>300-400 Level Elective or ENGL Language Course</td>
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<tr>
<td>Elective</td>
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<table>
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<tbody>
<tr>
<td><strong>Fall (15 credits)</strong></td>
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<tr>
<td>ENGL Advanced Composition Course or ENGLA424</td>
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<td>ENGLA35 or 300 - 400 level Elective</td>
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<td>ENGL Language Course</td>
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<td>300 - 400 Level Elective</td>
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<td>Elective</td>
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<tr>
<td><strong>Spring (15 credits)</strong></td>
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<tr>
<td>300-400 Elective (ENGLA495 recommended) or ENGLA435</td>
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<td>ENGL Language Course</td>
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<td>300-400 Level Elective</td>
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<td>Elective</td>
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<tr>
<td>Elective</td>
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</tbody>
</table>

**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**

- ENGLA201 Masterpieces of World Literature I | 3 |
- ENGLA202 Masterpieces of World Literature II | 3 |
- ENGLA351 Poetry | 3 |
- ENGLA424 Shakespeare | 3 |
- ENGLA435 History of Criticism | 3 |
- Upper-division English elective | 3 |

**PROFESSIONAL WRITING EMPHASIS**

- ENGLA212 Technical Writing (3) | 3 |
- ENGLA213 Writing in the Social and Natural Sciences (3) | 3 |
- ENGLA311 Advanced Exposition | 3 |
- ENGLA312 Advanced Technical Writing | 3 |
- ENGLA414 Research Writing | 3 |
- ENGLA495 Internship in Professional Writing (1-3) | 3 |
- Upper-division elective approved by the English Department | 3 |

**FACULTY**

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Jeff White, Assistant Professor, AFJCW@uaa.alaska.edu

Toby Widdicombe, Associate Professor, AFRTW@uaa.alaska.edu
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
   - BIOLA373 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.
   - BIOLA409 Biogeography (3)
   - BIOLA331 Systematic Botany (4)
   - BIOLA375 Terrestrial Ecosystems (3)
   - BIOLA475 Arctic Tundra Ecosystems (3)
   - BIOLA476 Boreal Ecosystems (3)
   - BIOLA485 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 A435 Economics of Resources (3)
   - ENVI/PHILA303 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

Steve Colt, Director, AFSGC@uaa.alaska.edu
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.

GEOLA111  Physical Geology  4
GEOLA112  Historical Geology  4
Upper-division Geology electives  8
Other Geology electives  2-4

FACULTY

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Anne Pasch, Emeritus Professor, AHADP@uaa.alaska.edu

HISTORY

College of Arts & Sciences Building (CAS), Room 330, (907) 786-1535

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

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

BACHELOR OF ARTS, HISTORY

ADMISSION REQUIREMENTS

Complete the 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):

   HIST A101  Western Civilization I  3
   HIST A102  Western Civilization II  3
   HIST A131  History of United States I  3
   HIST A132  History of United States II  3
   HIST A477  Senior Seminar  3
   Upper-division History electives*  15

   History electives, any level  6

   *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.

HIST A101 Western Civilization I (3) 6
HIST A102 Western Civilization II (3)
HIST A131 History of United States I (3) and
HIST A132 History of United States II (3)
Upper-division History electives* 9
History elective, any level 3

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

FACULTY

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Jeanne Eder, Assistant Professor
Steve Haycox, Professor, AFSWH1@uaa.alaska.edu
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Caedmon Liburd, Associate Professor, AFCAL@uaa.alaska.edu
Don Mohr, Professor, AFDEM@uaa.alaska.edu
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Kenneth O'Reilly, Professor, AFKO@uaa.alaska.edu
Dorn Van Dommelen, Associate Professor, AFDV@uaa.alaska.edu

JOURNALISM AND PUBLIC COMMUNICATIONS

webserver.cts.uaa.alaska.edu/jpc/jpc.html
Classroom Building K (K), Room 203, (907) 786-4180

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

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

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

A journalism endorsement for Alaska State Teacher Certification is available through the School of Education.

BACHELOR OF ARTS,
JOURNALISM AND PUBLIC COMMUNICATIONS

ADMISSION REQUIREMENTS

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

ACADEMIC PROGRESS

A grade of “C” or better is needed in ENGLA211 or ENGLA212, ENGLA213 and in any JPC course that is a prerequisite before proceeding to the advanced course.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

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

B. GENERAL EDUCATION REQUIREMENTS

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

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

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

1. Students 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 A300 Photojournalism (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)

3. Complete one of the following six options:

   **Journalism - Option I (18 credits)**
   Complete 18 credits:
   
   - JPC A212 Editing (REQUIRED) (3)
   - JPC A215 History of Mass Communication (3)
   - JPC/ART A224 Beginning Photography (3)
   - JPC A300 Photorealism (3)
   - JPC A301 Advanced News Writing (3)
   - JPC A305 Journalistic Interviewing (3)
   - JPC A309 Radio News (3)
   - JPC A311 Magazine Writing (3)
   - JPC A329 Graphics and Publication Design (3)
   - JPC A340 Web Design (3)
   - JPC A341 Broadcast Journalism Production (3)
   - JPC A400 Practicum (1-3)
   - JPC A450 Internship in Journalism (3)
   - JPC A401 Magazine Production (3)
   - JPC A416 Information Age Communication (3)
   - JPC A440 The Press: Issues and Answers (3)
   - JPC A490 Selected Topics in Communication (1-3)

   **Public Relations and Advertising- Option II (18 credits)**
   Complete 18 credits:
   
   - JPC A212 Editing (REQUIRED) (3)
   - JPC A215 History of Mass Communication (3)
   - JPC/ART A224 Beginning Photography (3)
   - JPC A305 Journalistic Interviewing (3)
   - JPC A320 Principles of Public Relations (3)
   - JPC A328 Advertising Campaign (3)
   - JPC A329 Graphics and Publication Design (3)
   - JPC A330 Advanced Public Relations (3)
   - JPC A340 Web Design (3)
   - JPC A355 Writing for Public Relations (3)
   - JPC A364 Advertising Strategy (3)
   - JPC A365 Advertising Creativity (3)
   - JPC A400 Practicum (1-3)
   - JPC A451 Internship in Public Relations or Advertising (3)
   - JPC A401 Magazine Production (3)
   - JPC A416 Information Age Communication (3)
   - JPC A440 The Press: Issues and Answers (3)
   - JPC A490 Selected Topics in Communication (1-3)

   **Telecommunication and Film Option III (18 credits)**
   Complete 18 credits:
   
   - JPC A215 History of Mass Communication (3)
   - JPC/ART A224 Beginning Photography (3)
   - JPC A305 Journalistic Interviewing (3)
   - JPC A309 Radio News (3)
   - JPC A310 Audio Production (3)
   - JPC A316 Producing for Film and Television (3)
   - JPC A325 Writing for Film and Television (3)
   - JPC A340 Web Design (3)
   - JPC A341 Broadcast Journalism Production (3)
   - JPC A350 Directing for Film and Television (3)
   - JPC A400 Practicum (1-3)
   - JPC A452 Internship in Telecommunications (3)
   - JPC A416 Information Age Communication (3)
   - JPC A440 The Press: Issues and Answers (3)
   - JPC A490 Selected Topics in Communication (1-3)

   **Graphic Design Option IV (54 credits)**
   Complete the following 18 credits:
   
   - ART A105 Beginning Drawing (3)
   - ART A111 Two-Dimensional Design (3)
   - ART A112 Color Design (3)
   - ART A205 Intermediate Drawing (3)
   - ART A261 History of World Art I (3)
   - ART A262 History of World Art II (3)

   Complete the following 2D/3D courses (6 credits):
   
   - ART/JPC A224 Beginning Photography (3)
   - ART A252 Beginning Graphic Design and Illustration (3)

   Complete the following Studio Emphasis courses (15 credits):
   
   - ART A352 Intermediate Graphic Design (6)
   - ART A357 Computer Art and Design (3)
   - ART A452 Advanced Graphic Design (6)

   Complete JPC Recommended Electives (15 credits):
   
   - JPC A316 Producing for Film and Television (3)
   - JPC A328 Advertising Campaign (3)
   - JPC A340 Web Design (3)
   - JPC A350 Directing for Film and Television (3)
   - JPC A400 Practicum (1-3)
   - JPC A450 Internship in Journalism (3)
   - JPC A401 Magazine Production (3)
   - JPC A490 Selected Topics in Communications (1-3)
   - Any upper division photography course (3)

   **Photography- Option V (18 credits)**
   Complete 18 credits:
   
   - JPC A215 History of Mass Communication (3)
   - JPC/ART A224 Beginning Photography (REQUIRED) (3)
   - JPC A300 Photojournalism (3)
   - JPC/ART A323 Color Photography (3)
   - JPC/ART A324 Intermediate Photography (3)
   - JPC/ART A331 Experimental Photography (3)
   - JPC A340 Web Design (3)
   - JPC/ART A367 History of Photography (3)
   - JPC A400 Practicum (1-3)
   - JPC A453 Internship in Photography (3)
   - JPC A416 Information Age Communication (3)
   - JPC/ART A424 Advanced Photography (3)
   - JPC A440 The Press: Issues and Answers (3)
   - JPC A490 Selected Topics in Communication (1-3)
General Communication - Option VI
Complete 18 credits: 18
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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>JPC A101 Introduction to Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>JPC A111 Understanding Aural and Visual Communications</td>
<td>3</td>
</tr>
<tr>
<td>JPC A201 Writing for the Media</td>
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<tr>
<td>Upper-division JPC electives</td>
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<tr>
<td>Lower- or upper-division JPC electives</td>
<td>3</td>
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</table>

FACULTY
Carole Rich, Atwood Prof of Journalism, AFCR@uaa.alaska.edu
Edgar Blatchford, Asst Professor, AFEPB@uaa.alaska.edu
Frederick W. Pearce, Asst Professor, AFFWP1@uaa.alaska.edu

LANGUAGES
cwolf.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 NCSAProgram 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
1. 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
6. 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.
7. Students may not earn a major and minor(s) in the same language(s).
8. The degree program must be approved and signed by the Department of Languages.
9. 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.
10. 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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Hiroko Harada, Assistant Professor, AFHH@uaa.alaska.edu
Susan Kalina, Associate Professor, AFSMK@uaa.alaska.edu
Francisco Miranda, Assistant Professor, AFFM1@uaa.alaska.edu
Arsenio Rey, Professor, AFAR@uaa.alaska.edu
LIBERAL STUDIES

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

The new Bachelor of Liberal Studies is in the final stages of curriculum review. It is anticipated that this program will be available Fall 2001.

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. Please contact the Dean’s Office for more information.

MATHEMATICS

www.math.ualaska.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:

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

Students interested in obtaining Teacher Certification to teach mathematics, or intending to apply to the MAT program at UAA, 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 UA 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 B.A or B.S 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
     or
   - MATH A422 Partial Differential Equations (3)
2. Complete 9 additional upper division credits in approved courses using advanced mathematics. 9
3. The program, including electives, must be developed with an academic advisor from the Mathematical Sciences Department.
4. Students interested in obtaining Teacher Certification to teach mathematics, or those that intend to apply to the MAT program at UAA, please see a mathematics faculty advisor and an advisor from the School of Education.
5. 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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MUSIC

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 A234 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 BARequirements.

1. Complete required music courses:

   - MUS A161-A262 Private Lessons (on major instrument) 4
   - MUS A201B, A202B, A203B, A207B, 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: 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 A466, A467, A468, A469 or A408 Master Class 8 or 16
     Note: eight semesters of Master Class are required.
   - MUS A331 Form and Analysis 3
   - MUS A381 Choral Conducting (2) 2
   - 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
   - MUS A371-A375 Methods and Techniques 10

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-A375 Methods and Techniques 10
   - MUS A381 Choral Conducting (2) 2
   - MUS A382 Instrumental Conducting (2)
   - MUS A420-A424 Music History Elective 3
   - MUS A432 Orchestration 3
   - MUS A466, A467, A468, A469 or 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 124 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.

**FACULTY**

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NATURAL SCIENCES
www.uaa.alaska.edu/biohome/biology.html
Engineering Building (ENGR) Room 333, (907) 786-4770

Modern sciences do not stand alone. Most draw heavily upon the tenets of at least one other discipline. The Natural Sciences curriculum emphasizes the interrelationships among the sciences and allows students to obtain a strong background in two or more sciences while meeting the requirements of a single degree program. A minimum of 74 science credits is required for this major, as specified below.

The Natural Sciences program is administered by the Department of Biological Sciences. For further information about the Natural Science 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 located at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences requirements listed at the beginning of the CAS section. 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. BIOLA105 Fundamentals of Biology I (4)
   b. BIOLA106 Fundamentals of Biology II (4)
   c. CHEM A105/L General Chemistry I (4)
   d. CHEM A106/L General Chemistry II (4)
   e. GEOLA111 Physical Geology (4)
   f. GEOLA112 Historical Geology (4)
   g. PHYS A123/L Basic Physics I (4)
   h. 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 BIOLA242 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. UAAsciences courses approved for the Natural Sciences degree are listed below. 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
   - Computer Sciences
   - Environmental Sciences
   - Engineering
   - Health Sciences
   - Natural Resource Management
   - Mathematics
   - Wildlife Management
   - Oceanography
   - 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.

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PHILOSOPHY

cwolf.uaa.alaska.edu/~ayphi/
Classroom Building K (K), Room 219, (907) 786-4455

Philosophy acquaints students with the rich, living, intellectual traditions of both the Western and Eastern world. Philosophy courses address perennial questions vital to those traditions, and questions which evoke curiosity and critical inquiry. The basic objective of the Philosophy program is to develop an ability to understand and critically analyze basic concepts of reality, humanity, knowledge, society, and value.

The department serves all students and all disciplines. None of its courses have prerequisites, but most will require intensive and extensive reading and writing assignments. Courses at the 300- and 400-level assume a greater analytic ability; and it would be helpful, but not necessary, for students to have junior standing and to have taken at least one lower-division philosophy course before undertaking one of them.

The department offers a minor which is intended to enrich and complement a student’s major program as well as offering the opportunity to pursue philosophical interests seriously and at length. A philosophy minor is also valuable preparation for many professional and graduate programs.

MINOR, PHILOSOPHY

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

1. Complete these required courses (12 credits):
   - PHILA101 Introduction to Logic 3
   - PHILA201 Introduction to Philosophy 3
   - PHILA211 History of Philosophy I 3
   - PHILA212 History of Philosophy II 3

2. Complete a minimum of 6 credits from the list below: 6
   - PHILA301 Ethics (3)
   - PHILA302 Biomedical Ethics (3)
   - PHIL/ENVI A303 Environmental Ethics (3)
   - PHILA309 Philosophy of Mind (3)
   - PHILA310 Philosophy of Love (3)
   - PHILA313B Eastern Philosophy and Religion (3)
   - PHILA314 Western Religion (3)
   - PHILA320 Existentialism (3)
   - PHILA401 Aesthetics (3)
   - PHILA421 Philosophy of the Social Sciences (3)

FACULTY

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POLITICAL SCIENCE

www.uaa.alaska.edu/polscli
College of Arts & Sciences Building (CAS), Room 356, (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 Department 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 the 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.

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 §
   - PS A102 Introduction to Political Science §
   - PS A301 Comparative Political Economy
   - PS A330 The American Political Tradition
   - PS/SOC A361 Social Science Research Methods
   - PS A492 Senior Seminar in Politics

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)
   - International Relations
     - *PS A321 International Relations § (3)
     - *PS A322 United States Foreign Policy (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 a pound sign (#) after their titles.

Political Science

- Introductory courses (6 credits):
  - PS A101 Introduction to American Government #
  - 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 #
  - PS A102 Introduction to Political Science # (3)
- Additional courses, as follows (12 credits):
  - PS A347 Public Administration
  - PS A348 Public Policy
  - PS A453 Organization Theory
- One additional starred (*) course from one of the areas listed in item 2 above under major requirements

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 PSYA499 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):
   - PSYA111 General Psychology 3
   - PSYA150 Human Development 3
   - PSYA260 Statistics for Psychology 3
   - PSYA261 Introduction to Experimental Psychology 4
   - PSYA345 Psychology of Abnormal Behavior 3
   - PSYA355 Learning and Cognition 4
   - PSYA368 Personality Theories 3
   - PSYA370 Physiological Psychology 3
   - PSYA375 Psychology of Social Behavior 3

2. Take an additional 12 credits of psychology, 9 of which must be upper-division.

3. 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.

4. A total of 120 credits is required for the degree of which 42 credits must be upper-division.
RECOMMENDED COURSE SEQUENCE

First Year
PSYA111 General Psychology
PSYA150 Human Development
*UAA/CAS GER course electives

Second Year
PSYA260 Statistics for Psychology
PSYA261 Introduction to Experimental Psychology
Psychology Electives (three lower-division; three upper-division)
*UAA/CAS GER courses electives

Third Year
PSYA368 Personality Theories
PSYA345 Psychology of Abnormal Behavior
PSYA375 Psychology of Social Behavior
*UAA/CAS GER courses electives

Fourth Year
PSYA355 Learning and Cognition
PSYA370 Physiological Psychology
Psychology elective (six upper-division)
*UAA/CAS GER courses electives

If going to Graduate School it is highly recommended that students take the following:
PSYA412 History of Modern Psychology
PSYA420 Research Methods in Experimental Psychology
PSYA425 Clinical Psychology
PSYA427 Field Experience in Psychology
PSYA473 Psychological Testing
*Suggested that the UAA/CAS GER courses need to be completed within the first two years.

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. PSYA111 General Psychology
2. Three additional courses required in the core above (see list D.1)
3. Two additional Psychology courses

FACULTY
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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/PSYA453 Application of Statistics to the Social Sciences 4
   - SOC A488 Capstone Seminar 3

2. Complete one of the following options:
   Note: Courses may not be applied to more than one option.

Option I
Family and Life Cycles (18 credits):
For majors specializing in small groups and family systems:
   a. Complete two general background courses (6 credits): 6
      - SOC A275 Social Psychology (3)
      - SOC A363 Social Stratification (3)
      - SOC A405 Social Change (3)
   b. Complete two core area courses (6 credits): 6
      - SOC A242 An Introduction to Marriage, Family and Intimate Relationships (3)
      or
      - SOC A342 Sexual, Marital and Family Lifestyles (3)
      - SOC A246 Adolescence (3)
      - SOC A310 Sociology of Aging (3)
      - SOC A377 Men, Women and Change (3)
      - SOC A452 Violence in Intimate Relationships (3)
   c. Select either the Academic Emphasis or the Applied Emphasis (6 credits) 6
      A. For the Academic Emphasis, complete two additional courses from item "b" core area courses (above).
      B. For the Applied Emphasis, complete two courses from the following application courses:
         - SOC A412 Sociology of Sexuality (3)
         - SOC/PS A361 Social Science Research Methods (3)
         - SOC A487 Sociology Practicum (3)

Option II
Community and Change (18 credits):
For majors specializing in rural community and urban systems:
   a. Complete two general background courses (6 credits): 6
      - SOC A202 The Social Organization of Society (3)
      - 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): 6
      - SOC A222 Small and Rural Communities (3)
      - SOC A309 Urban Sociology (3)
      - SOC A373 Strategies of Community Change (3)
      - SOC/PSW A407 Formal Organizations (3)
      - SOC A408 American Minority Groups (3)
   c. Select either the Academic Emphasis or the Applied Emphasis (6 credits) 6
      A. For the Academic Emphasis, complete two additional courses in item "b" core area courses (above).
      B. For the Applied Emphasis, complete required applications courses:
         - SOC/PS A361 Social Science Research Methods (3)
         - SOC A487 Sociology Practicum (3)

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
   - SOC A404 Environmental Sociology (3)
   - SOC A405 Social Change (3)
   - SOC A408 American Minority Groups (3)

FACULTY

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Karl Pfeiffer, Assistant Professor, AFKTP@uaa.alaska.edu
Wilma van der Veen, Term Assistant Professor, AFEVW@uaa.alaska.edu

University of Alaska Anchorage 2001-2002 Course Catalog
www.uaa.alaska.edu
THEATRE

webserver.cts.ualaska.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.

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):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR A111</td>
<td>Introduction to the Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THR A121</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>THR A131</td>
<td>Theatrical Production Techniques</td>
<td>3</td>
</tr>
<tr>
<td>THR A141</td>
<td>Stagecraft I</td>
<td>3</td>
</tr>
<tr>
<td>THR A221</td>
<td>Acting II: Movement for the Actor</td>
<td>3</td>
</tr>
<tr>
<td>THR A243</td>
<td>Scene Design</td>
<td>3</td>
</tr>
<tr>
<td>THR A257</td>
<td>Costume Design and Construction I</td>
<td>3</td>
</tr>
<tr>
<td>THR A311</td>
<td>Representative Plays I (3)</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>THR A312 Representative Plays II (3)</td>
<td></td>
</tr>
<tr>
<td>THR A311</td>
<td>Representative Plays I (3)</td>
<td></td>
</tr>
<tr>
<td>THR A111</td>
<td>History of the Theatre I</td>
<td>3</td>
</tr>
<tr>
<td>THR A411</td>
<td>History of the Theatre II</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Choose two of the following Performance Area courses: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR A315</td>
<td>Playwriting Workshop (3)</td>
<td></td>
</tr>
<tr>
<td>THR A321</td>
<td>Acting III Scene Study (3)</td>
<td></td>
</tr>
<tr>
<td>THR A324</td>
<td>Voice for the Actor (3)</td>
<td></td>
</tr>
<tr>
<td>THR A325</td>
<td>Theatre Speech (3)</td>
<td></td>
</tr>
<tr>
<td>THR A328</td>
<td>Acting Shakespeare (3)</td>
<td></td>
</tr>
<tr>
<td>THR A329</td>
<td>Combat for the Stage I (3)</td>
<td></td>
</tr>
<tr>
<td>THR A413</td>
<td>Dramatic Theory and Criticism (3)</td>
<td></td>
</tr>
<tr>
<td>THR A435</td>
<td>Directing II (3)</td>
<td></td>
</tr>
</tbody>
</table>

3. Choose one of the following Design Area courses: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR A341</td>
<td>Stagecraft II (3)</td>
<td></td>
</tr>
<tr>
<td>THR A343</td>
<td>Scenic Design II (3)</td>
<td></td>
</tr>
<tr>
<td>THR A347</td>
<td>Lighting Design (3)</td>
<td></td>
</tr>
<tr>
<td>THR A357</td>
<td>Costume Design and Construction II (3)</td>
<td></td>
</tr>
</tbody>
</table>

4. Complete the following Technical Area courses: 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR A295</td>
<td>Theatre Practicum:  Technical (2)</td>
<td></td>
</tr>
<tr>
<td>THR A495</td>
<td>Advanced Practicum:  Technical (2)</td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR A111</td>
<td>Introduction to the Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THR A121</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>THR A141</td>
<td>Stagecraft I</td>
<td>3</td>
</tr>
<tr>
<td>THR A311</td>
<td>Representative Plays I (3)</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>THR A312 Representative Plays II (3)</td>
<td></td>
</tr>
<tr>
<td>THR A111</td>
<td>History of the Theatre I</td>
<td>3</td>
</tr>
<tr>
<td>THR A411</td>
<td>History of the Theatre II</td>
<td>3</td>
</tr>
<tr>
<td>Theatre electives</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

FACULTY

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Jill Crosby, Assoc Prof, Coordinator
David Edgecombe, Associate Professor, AFDPE@ualaska.edu
Tom Skore, Associate Professor
WOMEN’S STUDIES

www.uaa.alaska.edu/womens/
Classroom Building K (K), Room 204A (907) 786-4388

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.

   ANT H A270 Cross-Cultural Perspectives on Women (3)
   CW LAA 260 G Women’s Writing Workshop (3)
   CW LAA 461 Writing and Gender (3)
   EN GLA 403 Topics in Autobiography (3)**
   EN GLA 404 Topics in Women’s Literature (3)
   H IST A381 American Women’s History to 1870 (3)
   H IST A382 American Women’s History Since 1870 (3)
   H IST/ RUSS A384 Russian Women (3)
   H UMS A150 Marriage, Divorce and Intimate Relationships in the 90’s (3)
   H UMS A350 Men and Masculinity (3)
   PSYA 313 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

Genie Babb, Associate Professor/Co-Chair, AFGNB@uaa.alaska.edu
Elizabeth Dennison, Associate Prof/Co-Chair, AFEJD@uaa.alaska.edu
The College of Business and Public Policy has five departments: (1) Accounting, (2) Business Administration, (3) Computer Information and Office Systems (4) Economics, and (5) 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 and Master of Business Administration degree programs are accredited by the International Association in Management Education (AACS).

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 diversified 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.

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.

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


2. Complete 12 credits of electives. Students may choose any course at the 100-level or above in ACCT, BA, CIOS, or ECON, but may not use more than 6 credits from one discipline. 12
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 3
- BAA151 Introduction to Business 3
- ENGLA111 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
- BAA241 Business Law I 3
- CIOS A110 Computer Concepts in Business 3
- ENGLA211, A212, A213 (ENGL212 recommended) 3
- or CIOS A262 Written Business Communications 3
- General Requirement* 3

Second Year
Fall Semester (15 credits):
- ACCT A202 Principles of Managerial Accounting 3
- ACCT A210 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 or ECON. No more than 6 credits from one discipline.

BACHELOR OF BUSINESS ADMINISTRATION, ACCOUNTING

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
   - BAA273 3
   - CIOS A110 3
   - COMM A111, A235, A237, or A241 3
   - ECON A201 and A202 6
   - ENGLA111 and A212 6
   - MATH A270 or A107 3-4
3. Completion of at least 9 credits that satisfy UAA General Education Requirements in the following areas:
   - Fine Arts
   - Humanities
   - Natural Sciences

Admission to Upper-division Status:

BBA students in Accounting, Business Administration, 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 course prerequisites may take up to fifteen (15) upper-division ACCT, BA and CIOS courses 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 and CIOS 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), BAA273 or BAA375 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
   - ENGLA212 Technical Writing 3
   - MATH A270 Applied Finite Mathematics for the Managerial Sciences (3) 3-4
   - or MATH A107 College Algebra (4)
   - or MATH A272 Calculus for Managerial Sciences (3) 3-4
   - or MATH A200 Calculus I (4)

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
   - BAA300 Organizational Theory and Behavior 3
   - BAA325 Corporate Finance 3
   - BAA343 Principles of Marketing 3
   - BAA377 Operations Management 3
   - CIOS A380 Managerial Presentations 3
   - BAA488 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
   - JUST/BA A241 Business Law I 3
   - Accounting electives* 6
   - Upper-division ECON elective or BAA375 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):
   - ENGLA111 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
   - ENGLA212 Technical Writing 3
   - MATH A270 or A200 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
   - BAA241 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
   - BAA273 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
   - BAA300 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
   - BAA325 Corporate Finance 3
   - BAA343 Principles of Marketing 3
   - Elective* 3

Fourth Year

Fall Semester (15 credits):
   - ACCT A316 Accounting Information Systems 3
   - BAA377 Operations Management 3
   - BAA488 The Environment of Business 3
   - ACCT elective** 3
   - Elective* 3

Spring Semester (12-14 credits):
   - ACCT A452 Auditing 3
   - Upper-division ECON elective or BAA375 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 or ECON.
** 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.

FACULTY

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The Department of Business Administration offers a Certificate in Small Business Management at the Kenai campus, an AAS degree in General Business at the Kodiak campus, an AAS degree in Small Business Administration at the Anchorage, Kenai, and Mat-Su campuses as well as a BBA degree in Economics, Finance, Global Logistics Management, Management, and Marketing on the Anchorage campus. A Business Administration minor is also available on the Anchorage campus. These are professional programs designed to meet the challenges of a dynamic and changing business environment. Graduates in business find job opportunities in Alaska, throughout the United States and in many foreign countries.

Certified 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
   - Select 3 credits from the following:
     - 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 A201 Principles of Financial Accounting II (3)
     - BA 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
   - MATH A102 Business Math, or higher is recommended. 3-5

5. With advisor’s approval, complete 3-5 elective credits.
6. A total of 27-29 credits is required for the certificate.
MAJOR REQUIREMENTS

1. Complete the required support courses (12-16 credits):
   - ACCT A101 Principles of Financial Accounting I (3) 3-6
   - 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)
   - 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 BAcore courses (21 credits):
   - BAA151 Introduction to Business 3
   - BAA166 Small Business Management 3
   - BAA231 Fundamentals of Supervision 3
   - BAA233 Fundamentals of Financial Management 3
   - BA/JUST A241 Business Law I 3
   - BAA260 Marketing Practices 3
   - BAA264 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 recommended that students follow this course sequence:

First Year

Fall Semester (15 credits):
   - BAA151 Introduction to Business 3
   - BAA264 Salesmanship 3
   - ECON A201 Principles of Macroeconomics 3
   - ENGLA111 Methods of Written Communication 3
   - COMM A111, A235, A237 or A241 3

Spring Semester (15 credits):
   - ACCT A201 Principles of Financial Accounting 3
   - BAA166 Small Business Management 3
   - ECON A202 Principles of Microeconomics 3
   - ENGLA211, A212, A213 (ENGLA212 recommended) 3
   - CIOS A262 Written Business Communications 3
   - Program Elective* 3

Second Year

Fall Semester (15-16 credits):
   - ACCT A202 Principles of Managerial Accounting 3
   - BAA231 Fundamentals of Supervision 3
   - BAA241 Business Law I 3
   - CIOS A110 Computer Concepts in Business 3
   - Program Elective* 3

Spring Semester (15 credits):
   - BAA233 Fundamentals of Financial Management 3
   - BAA260 Marketing Practices 3
   - MATH A270, A107 or A105** 3-4
   - Program Elective* 3
   - Program Elective* 3

* See catalog for a list of approved program electives.
** 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 five majors — Economics, Finance, Global Logistics Management, Management, and Marketing, —are designed to prepare students to pursue careers in the private and public sectors. Local, state, national, and international firms, and not-for-profit organizations provide a ready market for graduates in each of these five 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
   - BAA273 3
   - CIOS A110 3
   - ECON A201 and A202 6
   - ENGLA111 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 UAAGeneral Education Requirements in the following areas: 9
   - Fine Arts
   - Humanities
   - Natural Sciences
Admission to Upper-division Status:
BBA students in Accounting, Business Administration, 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, BAand CIOS 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 and CIOS 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, GLOBAL LOGISTICS MANAGEMENT, MANAGEMENT AND MARKETING MAJORS
A minimum of 60 credits for these degrees must be from outside the business area. All ACCT, BA, and CIOS courses are considered within the business area. 6 credits from Applied Statistics (AS), BA A273 or BAA375 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
   ENGLA212 Technical Writing 3
   MATH A270 Applied Finite Mathematics for the Managerial Sciences (3) 3-4
   or MATH A107 College Algebra (4) 3-4
   or MATH A272 Calculus for Managerial Sciences (3) 3-4
   or MATH A200 Calculus I (4)

   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
   BAA241 Business Law 1 3
   ECON A201 Principles of Macroeconomics 3
   MATH 272 or 200 3-4
   Social Science GER 3

   Spring Semester (15 credits):
   ACCT A202 Principles of Managerial Accounting 3
   BAA273 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):**
- BAA300 Organizational Theory and Behavior 3
- BAA325 Corporate Finance 3
- BAA343 Principles of Marketing 3
- ECON A321 Intermediate Microeconomics 3
- ECON A350 Money and Banking 3

**Spring Semester (15 credits):**
- BAA377 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):**
- BAA488 The Environment of Business 3
- Upper-division ECON elective 3
- Upper-division ECON elective 3
- Elective* 3
- Elective* 3

* 100-level or higher in courses other than ACCT, BA, CIOS or ECON

### Finance Major

1. Complete the following requirements (15 credits). The following courses must be completed with a “C” or better prior to graduating:
   - BAA375 Statistics for Business and Economics (3) 3
   - or
   - ECON A429 Business Forecasting (3) 3
   - BAA425 Advanced Corporate Financial Problems 3
   - BAA426 Financial Institutions 3
   - BAA427 International Finance 3
   - BAA450 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.

*Note: See degree check sheets available in the College of Business and Public Policy.*

### 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):**
- ENGLA111 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
- ENGLA212 Technical Writing 3
- MATH A270 or A200 3
- 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
- BAA241 Business Law I 3
- Elective* 3

**Spring Semester (15 credits):**
- ACCT A202 Principles of Managerial Accounting 3
- BAA273 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):**
- BAA300 Organizational Theory and Behavior 3
- BAA325 Corporate Finance 3
- BAA343 Principles of Marketing 3
- CIOS A380 Managerial Presentations 3
- Elective* 3

**Spring Semester (15 credits):**
- BAA377 Operations Management 3
- CIOS A376 Management Information Systems 3
- ECON A429 or BAA375 3
- Upper-division Business elective** 3
- Elective* 3

**Fourth Year**

**Fall Semester (15 credits):**
- BAA425 Advanced Corporate Financial Problems 3
- BAA427 International Finance 3
- BAA488 The Environment of Business 3
- Upper-division Business elective** 3
- Elective* 3

**Spring Semester (12-14 credits):**
- BAA426 Financial Institutions 3
- BAA450 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 or ECON
** 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):
   - BAA378 Management of Global Logistics Supply Chains 3
   - BAA379 Transportation Management 3
   - BAA415 Purchasing Management 3
   - BAA416 International Logistics and Transportation Management 3
   - BAA417 Materials Management 3

2. Complete BAA495 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)
   - BAA350 Marketing Research (3)
   - BAA375 Statistics for Business and Economics (3)
   - BAA447 International Marketing (3)
   - BAA490 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 A429 Business Forecasting (3)
   - ECON A463 International Economics (3)
   - AT A332 Transport Aircraft Systems (3)
   - AT A420 Air Transportation System (3)

4. A total of 120 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

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):
  - ENGLA111 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
  - ENGLA212 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
  - BAA241 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
  - BAA273 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):
  - BAA300 Organizational Theory and Behavior 3
  - BAA325 Corporate Finance 3
  - BAA343 Principles of Marketing 3
  - BAA377 Operations Management 3
  - BAA378 Global Logistics Supply Chains 3

- Spring Semester (15 credits):
  - BAA379 Transportation Management 3
  - CIOS A376 Management Information Systems 3
  - CIOS A380 Managerial Presentations 3
  - Elective* 3

Fourth Year
- Fall Semester (15 credits):
  - BAA415 Purchasing Management 3
  - BAA495 Internship† 3
  - Upper-division program elective** 3

- Spring Semester (12-14 credits):
  - BAA416 International Logistics 3
  - BAA417 Materials Management 3
  - BAA488 The Environment of Business 3
  - Upper-division program elective** 3
  - Elective 0-2

* 100-level or higher in courses other than ACCT, BA, CIOS or ECON
** 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:
   - BAA361 Human Resource Management 3
   - BAA461 Negotiations and Conflict Management 3
   - BAA462 Strategic Management 3
   - BAA481 Applications in Management 3
   - BAA489 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):
  - ENGLA111 Methods of Written Communication 3
  - COMM A111, A235, A237 or A241 3
  - Humanities GER 3
  - Natural Science GER 3
  - Social Science GER 3

- Spring Semester (16-17 credits):
  - CIOS A110 Computer Concepts in Business 3
  - ENGLA212 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
  - BAA241 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
  - BAA273 Introduction to Statistics for Business and Economics 3
  - ECON A202 Principles of Microeconomics 3
  - Fine Arts GER 3
  - Elective 3

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Second Year
Fall Semester (15-16 credits):
ACCT A201 Principles of Financial Accounting 3
BAA241 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
BAA273 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):
BAA300 Organizational Theory and Behavior 3
BAA325 Corporate Finance 3
BAA343 Principles of Marketing 3
CIOS A380 Managerial Presentations 3
Elective* 3

Spring Semester (15 credits):
BAA361 Human Resource Management 3
BAA377 Operations Management 3
CIOS A376 Management Information Systems 3
Upper-division Business elective 3
Elective* 3

Fourth Year
Fall Semester (15 credits):
BAA461 Negotiations and Conflict Management 3
BAA462 Strategic Management 3
BAA488 The Environment of Business 3
Upper-division Business elective 3
Elective* 3

Spring Semester (12-14 credits):
BAA481 Applications in Management 3
BAA489 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 or ECON

Marketing Major
1. Complete the following courses with a “C” or better prior to graduating (15 credits):
   BAA264 Personal Selling 3
   BAA310 Consumer Behavior 3
   BAA350 Marketing Research 3
   BAA460 Marketing Management 3
   ECON A429 Business Forecasting (3) 3
   or
   BAA375 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:
   BAA447 International Marketing (3)
   BAA463 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):
ENGLA111 Methods of Written Communication 3
COMM A111, A235, A237 or A 241 3
Humanities GER 3
Natural Science GER 3
Social Science GER 3

Second Year
Fall Semester (15-16 credits):
ACCT A201 Principles of Financial Accounting 3
BAA264 Personal Selling 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
BAA273 Introduction to Statistics for Business and Economics 3
ECON A202 Principles of Microeconomics 3
Fine Arts GER 3
BAA241 Business Law I 3

Third Year
Fall Semester (15 credits):
BAA300 Organizational Theory and Behavior 3
BAA325 Corporate Finance 3
BAA343 Principles of Marketing 3
CIOS A380 Managerial Presentations 3
Elective* 3

Spring Semester (15 credits):
BAA310 Consumer Behavior 3
BAA350 Marketing Research 3
BAA377 Operations Management 3
ECON A429 or BAA375 3
Upper-division elective** 3

Fourth Year
Fall Semester (15 credits):
BAA461 Negotiations and Conflict Management 3
Upper-division Business elective 3
Upper-division elective 3
Elective* 3

Spring Semester (12-14 credits):
BAA488 The Environment of Business 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 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 BBAmajors.

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COMPUTER INFORMATION AND OFFICE SYSTEMS

www.cpbb.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 computers provide experiences using several operating systems, most major application software, and several languages from third generation to modern 4GL, query, and object-oriented environments.

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 DPMA 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. The CIOS Department assists its graduates with job placement.
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 & II. 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. ENGLA212 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 or A107 Applied Finite Mathematics for the Managerial Sciences (3) 3-4
   - MATH A107 College Algebra (4)
   - General Education Requirement Elective* 3

   *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) 6

5. A minimum of 12 credits from Major Requirements, items 3 and 4 above, must be earned at the University of Alaska Anchorage.

6. A total of 61-62 credits is required for the degree.

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
   - ENGLA111 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
   - ENGLA211, A212 or A213 (ENGLA212 recommended) 3
   - COMM A111, A235, A237 or A241 3
   - General Requirement* 3

Second Year
Fall Semester (16 credits):
   - BAA273 Introduction to Statistics for Business and Economics 3
   - CIOS A330 Database Management Systems 3
   - CIOS A201 Programming Business Applications 4
   - 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.

Chapter 9 Page 138 University of Alaska Anchorage 2001-2002 Course Catalog
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
   - BAA273 3
   - CIOS A110 3
   - COMM A111, A235, A237, or A241 3
   - ECON A201 and A202 6
   - ENGLA111 and A212 6
   - MATH A270 or A107 3-4
3. Completion of at least 9 credits that satisfy UA General Education Requirements in the following areas: 9
   - Fine Arts
   - Humanities
   - Natural Sciences

Admission to Upper-division Status:
BBA students in Accounting, Business Administration, and Management Information Systems and Marketing who do not meet the above standards may not take upper-division courses in ACCT, BA, CIOS.

Other students who meet courses prerequisites may take up to fifteen (15) upper-division ACCT, BA and CIOS 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 and CIOS 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, and CIOS (except CIOS 185) courses are considered within the business area. 6 credits from Applied Statistics (AS), BAA273 or BAA375 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
   - 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
   - ENGLA212 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)

   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):
   - BAA300 Organizational Theory and Behavior 3
   - BAA325 Corporate Finance 3
   - BAA343 Principles of Marketing 3
   - BAA377 Operations Management 3
   - CIOS A380 Managerial Presentations 3
   - BAA488 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)
- CIOS A495 Systems Analyst/User-Support Internship (1-3)

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
- ENGLA111 Methods of Written Communication 3
- MATH A270 or A107 3-4
- COMM A111, A235, A237 or A 241 3
- Humanities GER 3
- Spring Semester (15-16 credits):
- CIOS A185 Introduction to Programming Business Applications 3
- ENGLA212 Technical Writing 3
- MATH A272 or A210 3-4
- Humanities GER 3
- Natural Science GER 3

**Second Year**

Fall Semester (16 credits):
- ACCT A201 Principles of Financial Accounting 3
- BAA273 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):
- BAA300 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):
- BAA325 Corporate Finance 3
- CIOS A310 Analysis of Business Systems 3
- BAA343 Principles of Marketing 3
- BAA377 Operations Management 3
- Upper-division program elective** 3

**Fourth Year**

Fall Semester (15 credits):
- CIOS A410 Project Management 3
- CIOS A435 Managing Data Communication and Computer Networks 3
- Upper-division program elective** 3
- Upper-division program elective** 3
- Elective* 3

Spring Semester (12-14 credits):
- BAA488 The Environment of Business 3
- CIOS A489 Systems Design and Implementation 3
- Upper-division program elective** 3
- Elective* 0-2

*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 CIS 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 CIS. Students pursuing a baccalaureate degree outside the College of Business and Public Policy with a minor in CIS can establish upper-division standing by going to the College of Business and Public Policy Student Information Office and certifying they have completed at least 54 credits in their degree program and have completed General Education Requirements of 6 credits of written communications, 3 credits of oral communication, 3 credits of college algebra (MATH107 or MATH A270 or equivalent), and 12 credits in GER courses in Fine Arts, Humanities, Social Sciences, or Natural Sciences.

FACULTY

- Catherine Bradley, Professor, AFCAB@uaa.alaska.edu
- Dennis Drinka, Assistant Professor, AFDED@uaa.alaska.edu
- Dennis Howard, Assistant Professor/Chair, AFDDH@uaa.alaska.edu
- Cherie Shradar, Associate Professor, AFCLS1@uaa.alaska.edu
- Kathleen L. Voge, Assistant Professor
- Minnie Yen, Associate Professor, AFMYY@uaa.alaska.edu
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 BAor 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):
   - BAA273 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 16 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
- BAA273 Introduction to Statistics for Business and Economics 3
- Fine Arts GER 3
- Social Science GER 3
- Elective* 3

*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 16 credits of independent study or 3 credits of independent study and 3 credits of ECON A454.
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 BAA273. 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

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The College of Health, Education and Social Welfare - attentive to the challenges and opportunities of Alaska - pursues, preserves and disseminates knowledge while preparing professionals and para-professionals to live and work in a diverse society. Together, its faculties, programs and graduates:

- promote economic and social justice for all people;
- advocate affordable access to high quality health, legal and social services;
- conduct research related to justice, health, education, and social welfare of major importance to Alaska;
- promote healthy lifestyles for individuals, families, communities and organizations;
- develop and implement strategies to improve physical and behavioral health;
- improve access to high quality public education; and,
- examine and encourage the development of public policy related to justice, health, education and social welfare.

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 multi-disciplinary approaches, the schools, departments, centers and institutes take direct action to address the needs and potentials of Alaska’s peoples and communities.

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**SCHOOL OF EDUCATION**

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

**Classroom Building K (K), Room 217, (907) 786-4401**

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 elementary education, secondary education, and special education; and, the Department of Educational Development and Leadership with programs in adult education, counseling and guidance, educational leadership, and health, outdoor and physical education. The Health, Outdoor, and Physical Education (HOPE) Program is committed to excellence in teaching, service, and research in the discipline and professions of Health, Outdoor, and Physical Education. The Program is responsible for leadership in health, outdoor, and physical education for Southcentral Alaska, focusing on teacher and professional preparation. The School’s professional preparation programs are approved by the Alaska State Department of Education and meet the standards approved by the National Association of State Directors of Teacher Education and Certification.

The School of Education is committed to providing exemplary professional preparation programs that are reflective of best practices. The School of Education faculty, in partnership with many other education professionals, is completing significant changes in its Elementary and Physical Education degrees, as well as in the minors in Education and Physical Education.

**APPROVED PROGRAMS:**

- Elementary education;
- secondary education*;
- physical education (elementary and secondary);
- Reading specialist*;
- counseling and guidance*;
- educational leadership* (K-12 Principal, superintendent);
- special education* (mild disabilities).

*Note: Indicates post-baccalaureate programs.

In addition to these professional preparation programs for educators, the School also offers an early childhood development certificate and associate degree.

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.

**HIGH SCHOOL PREPARATION**

The following high school courses are recommended in preparation for admission to the School of Education:

1. English composition and writing
2. Verbal communication
3. Mathematics through algebra
4. Computer-related course work
5. Background in social sciences
6. Background in natural sciences

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EARLY CHILDHOOD DEVELOPMENT

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 Certificate and Associate Degree Programs Admission Requirements. 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 Certificate in Early Childhood Development 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
   - PSYA 245 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:
   - 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
   - PSYA 245 Child Development 3

2. Complete an additional 15 credits of electives; 12 credits are to be selected from any of the baccalaureate General Education Requirements and 3 credits may be selected from any area. 15
3. A total of 61 credits is required for the degree.
EDUCATION

The School of Education has developed two new programs for preparing elementary teachers: B.A. in Elementary Education (with or without Special Education emphasis) and Elementary Teacher Certification/Post-Baccalaurate. These new programs meet State and national standards, require a strong liberal studies background, integrate educational technology and have an extension K-6 classroom based experience.

- Bachelor of Arts in Elementary Education and Bachelor of Arts in Elementary Education with a Special Education emphasis
  The Elementary Program Faculty, in partnership with the College of Arts and Sciences and public schools, have developed a new undergraduate degree for future elementary teachers. This degree is pending final approval by the Board of Regents. Contact the School of Education for more information.

- Elementary Teacher Certification Program/Post-baccalaureate
  Admission to this program requires prior completion of a baccalaureate degree. Contact the School of Education for more information.

- Bachelor of Education in Elementary Education
  Admission to the B.Ed. in Elementary Education 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 by December 2002, in order to receive an Institutional Recommendation for Elementary Teacher Certification. Contact the School of Education for more information.

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

- Bachelor of Education in Physical Education
  Admission to the B.Ed. in Physical Education 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 by December 2002, in order to receive an Institutional Recommendation for Physical Education Teacher Certification. Contact the School of Education for more information.

MINOR, EDUCATION

MINOR, PHYSICAL EDUCATION

Admission to these minors has been suspended. Students who have completed the majority of the requirements for these minors may complete their requirements as listed in the catalog under which they were admitted or as published in the 2000-2001 catalog. Contact the School of Education for more information.

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, NY10006: 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.

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, BIOLA A02 and BIOLA A03, 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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLA111</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOLA112</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIOLA240</td>
<td>Introductory Microbiology for Health Sciences</td>
<td>4</td>
</tr>
<tr>
<td>DN A203</td>
<td>Normal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NURS A120</td>
<td>Nursing Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>NURS A120L</td>
<td>Nursing Fundamentals Lab</td>
<td>4</td>
</tr>
<tr>
<td>NURS A125</td>
<td>Adult Nursing I</td>
<td>3</td>
</tr>
<tr>
<td>NURS A125L</td>
<td>Adult Nursing I Lab</td>
<td>4</td>
</tr>
<tr>
<td>NURS A180</td>
<td>Basic Nursing Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>NURS A220</td>
<td>Perinatal Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NURS A220L</td>
<td>Perinatal Nursing Lab</td>
<td>2</td>
</tr>
<tr>
<td>NURS A221</td>
<td>Advanced Parenteral Therapy Lab</td>
<td>1</td>
</tr>
<tr>
<td>NURS A222</td>
<td>Pediatric Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NURS A222L</td>
<td>Pediatric Nursing Lab</td>
<td>2</td>
</tr>
<tr>
<td>NURS A225</td>
<td>Adult Nursing II</td>
<td>3</td>
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<td>NURS A225L</td>
<td>Adult Nursing II Lab</td>
<td>3</td>
</tr>
<tr>
<td>NURS A250</td>
<td>Psychiatric Nursing</td>
<td>2</td>
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<tr>
<td>NURS A250L</td>
<td>Psychiatric Nursing Lab</td>
<td>2</td>
</tr>
<tr>
<td>NURS A255</td>
<td>Staff Nurse: Legal, Ethical, and Organizational Issues</td>
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</tr>
<tr>
<td>PSYA150</td>
<td>Human Development</td>
<td>3</td>
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</table>

2. A total of 70 credits is required for the degree.

RECOMMENDED COURSE SEQUENCE

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<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
</tr>
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<tbody>
<tr>
<td>Fall Semester</td>
<td>NURS A120/LNursing Fundamentals/Lab</td>
</tr>
<tr>
<td></td>
<td>ENGLA111 Methods of Written Communication</td>
</tr>
<tr>
<td></td>
<td>BIOLA111 Anatomy and Physiology</td>
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<tr>
<td></td>
<td>PSYA150 Human Development</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>NURS A125/LAdult Nursing I/Lab</td>
</tr>
<tr>
<td></td>
<td>NURS A180 Basic Nursing Pharmacology</td>
</tr>
<tr>
<td></td>
<td>BIOLA112 Anatomy and Physiology</td>
</tr>
<tr>
<td></td>
<td>BIOLA240 Microbiology</td>
</tr>
<tr>
<td>Fall Semester</td>
<td>NURS A220/LPerinatal Nursing/Lab</td>
</tr>
<tr>
<td></td>
<td>NURS A221 Advanced Parenteral Therapy Lab</td>
</tr>
<tr>
<td></td>
<td>NURS A222/LPediatric Nursing</td>
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<tr>
<td></td>
<td>DN A203 Normal Nutrition</td>
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<tr>
<td></td>
<td>ENGLA211, 212, or 213 (Written Communication)</td>
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<tr>
<td></td>
<td>Social Science General Education Requirement</td>
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<tr>
<td>Spring Semester</td>
<td>NURS A225/LAdult Nursing II/Lab</td>
</tr>
<tr>
<td></td>
<td>NURS A250/LPsychiatric Nursing/Lab</td>
</tr>
<tr>
<td></td>
<td>NURS A255 The Staff Nurse</td>
</tr>
<tr>
<td></td>
<td>Oral Communication</td>
</tr>
<tr>
<td></td>
<td>General Education Requirement</td>
</tr>
</tbody>
</table>
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. UAACertificate of Admission from Enrollment Services, including high school transcripts or GED certificate and transcripts of all college work, together with UAATranscript 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 UAACourses in lieu of work at the high school level: MATH 055 (Algebra), BIOLA102 and A103 (Biology) and CHEM A055 (Chemistry).

2. Successful completion of or concurrent enrollment in the following college courses or their equivalents:
   a) BIOLA111 Anatomy and Physiology I
   b) ENGLA111 Methods of Written Communication
   c) PSYA150 Human Development

3. Current active Alaska LPN license.

4. Completed School of Nursing Application and Confidential Information form (sent to the Coordinator of Student Affairs, School of Nursing).

5. Three letters of references mailed directly to the Coordinator of Student Affairs, School of Nursing.

6. Interview with a member of the AAS Admissions Committee (scheduled after items 1-5 above are completed).

When items 1-6 are complete, the student’s file will be entered into the ranking process; further details about the ranking process may be obtained directly from the AAS Nursing Program. Students are notified of the results of the ranking process by March 30th. Once admitted to the associate degree clinical courses, students are required to provide documentation of health, CPR, and liability insurance before actually beginning clinical course work.

Requirements marked with an asterisk (*) are considered valid only if the expiration date does not occur prior to the end of the semester:

1. Evidence of:
   a. immunity to rubella and rubeola, confirmed by titer;
   b. immunity to Hepatitis A and Hepatitis B, confirmed by titer (first semester clinical students may be in the process of completing the immunization series; for those students, documentation of immunity by titer is required prior to entry into second year courses);
   c. immunity to chicken pox documented by history, titer or current immunization;
   d. diphtheria/tetanus vaccination within the past ten years (with booster required at the time of expiration);
   e. freedom from active tuberculosis, documented annually by negative PPD skin test or by health exam by a nurse practitioner, physician, or physician’s assistant;*
   f. documentation of HIV testing annually (results not required).

2. Current Health Provider certification in Cardiopulmonary Resuscitation for infants, children, and adults (information regarding acceptable courses may be obtained from the department).*

3. Professional liability insurance in the amount of $1 million/$3 million; insurance must be maintained throughout the duration of the student’s enrollment in clinical nursing courses. Specific information regarding acceptable professional liability insurance policies may be obtained directly from the Program.*

4. Results of a national level criminal background check.

Students enrolled in clinical courses must provide their own transportation to clinical assignments and will be required to purchase uniforms and specialized equipment. The School assumes no responsibility for illnesses and injuries experienced by students in conjunction with their clinical experiences; students who are injured while completing clinical assignments are responsible for all associated medical costs. It is strongly recommended that students maintain personal medical insurance.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees.
2. Complete the Associate of Applied Science 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:
   - BIOLA111 Human Anatomy & Physiology I 4
   - BIOLA112 Human Anatomy & Physiology II 4
   - BIOLA240 Introductory Microbiology for Health Sciences 4
   - DN A203 Normal Nutrition 3
   - PSYA150 Human 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

4. 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:
   - BIOLA111 Human Anatomy & Physiology I 4
   - BIOLA112 Human Anatomy & Physiology II 4
   - BIOLA240 Introductory Microbiology for Health Sciences 4
   - DN A203 Normal Nutrition 3
   - PSYA150 Human 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.

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**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.

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**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. UAACertificate 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):
   - BIOLA111 and A112
   - CHEM A103 and A104
   - ENGLA111 and A213
   - ENGLA120, PHILA101, PHILA201, or PSYA150
   - Oral Communication Requirement
   - General Education Requirement
   - PSY or SOC General Education Course
   - For students not required to take ENGLA111, a 200-level English composition course will be substituted. For transfer students, grades from equivalent courses are substituted.
6. Enrollment in, or credit for,
   - BIOLA240
   - PSYA150 or one of the following:
     - ENGLA120, PHILA101, or PHILA201
     - ANTH or ECON General Education Requirement
     - General Education Requirement

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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 process when admission is sought (i.e., PSY A150, BIOLA240), 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 A313S; NS A315, NS A315L, NS A315S; NS A401, NS A401L, NS A401S; NS A402, NS A402L, NS A402S; NS A406, NS A406L; NS A407, NSA407L; 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:
   - AS A252 Elementary Statistics (3) 3
   - AS A307 Probability and Statistics (3)
   - *BIOLA111 Human Anatomy and Physiology I 4
   - *BIOLA112 Human Anatomy and Physiology II 4
   - *BIOLA240 Introductory Microbiology for Health Sciences 4
   - *CHEM A103/L Survey of Chemistry 4
   - *CHEM A104/L Introduction to Organic Chemistry and Biochemistry 4
   - *DN A203 Normal Nutrition 3
   - *Reasoning Skills:** 3
   - ENGLA120, or PHILA101, or PHILA201 3
   - *ENGLA213 Writing in the Social and Natural Sciences 3
   - PHILA302 Biomedical Ethics 3
   - *PSYA150** Human Development 3
   - PSY or SOC General Education Course 3
   - **ANTH or ECON General Education Requirement 3

   **Must be in addition to the required General Education Requirements.

2. Nursing Courses: Complete required nursing courses for the Nursing Science major (64 credits). Courses marked with an asterisk (*) must be completed prior to admission to clinical nursing courses:
   - NS A204 Technology and Nursing Informatics 3
   - NS A216 Pathophysiology 4
   - NS A300 Foundations of Nursing I 3
   - NS A303 Foundations of Nursing II 3
   - NS A304 Foundations of Nursing III 4
   - NS A309 Pharmacology in Nursing 3
   - NS A313 Health Disruptions I 2
   - NS A313L Health Disruptions I Lab 3
   - NS A313S Health Disruptions I Seminar 1
   - NS A315 Health I: Nursing Therapeutics 2
   - NS A315L Health I: Nursing Therapeutics Lab 3
   - NS A315S Health I: Nursing Therapeutics Seminar 1
   - NS A318 Professional and Legal Perspectives in Nursing 3
   - NS A319 Research in Nursing 3
   - NS A401 Health Disruptions II 2
   - NS A401L Health Disruptions II Lab 3
   - NS A401S Health Disruptions II Seminar 1
   - NS A402 Health II: Nursing Therapeutics 2
   - NS A402L Health II: Nursing Therapeutics Lab 3
   - NS A402S Health II: Nursing Therapeutics Seminar 1
   - NS A406 Complex Care 2
   - NS A406L Complex Care Lab 2
   - NS A415 Nursing Management 3
   - NS A416 Concentration in Clinical Nursing .5
   - NS A416L Concentration in Clinical Nursing Lab 3.5
   - Nursing elective (upper-division) 3

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

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
     - ENGLA111 Methods of Written Communication
     - Oral Communication
     - BIOLA111 Anatomy and Physiology I
     - CHEM A103/L Survey of Chemistry/Lab
     - Psychology or Sociology
   - Semester II Pre-major
     - ENGLA213 Writing in the Social and Natural Sciences
     - BIOLA112 Anatomy and Physiology II
     - CHEM A104/L Organic and Biochemistry
     - PHILA101, A201, OR ENGLA120
     - Social Science (GER)

Second Year
   - Semester I Pre-major
     - BIOLA240 Introductory Microbiology for Health Sciences
     - PSYA150 Human 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 A304 Foundations of Nursing III
   - 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 A313S Health Disruptions I Seminar
   - NS A315 Health I: Nursing Therapeutics
   - NS A315L Health I: Nursing Therapeutics Lab
   - NS A315S Health I: Nursing Therapeutics Seminar
   - NS A319 Research in Nursing
   - NS A401 Health Disruptions II
   - NS A401L Health Disruptions II Lab
   - NS A401S Health Disruptions II Seminar
   - NS A402 Health II: Nursing Therapeutics
   - NS A402L Health II: Nursing Therapeutics Lab
   - NS A402S Health II: Nursing Therapeutics Seminar
   - NS A415 Nursing Management

Fourth Year
   - NS A401 Health Disruptions II
   - NS A401L Health Disruptions II Lab
   - NS A401S Health Disruptions II Seminar
   - NS A406 Complex Care
   - NS A406L Complex Care Lab
   - PHILA302 Biomedical Ethics
   - 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
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. UAACertificate 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):
   - BIOLA111 4
   - CHEM A103/L 4
   - ENGLA111 3
   - COMM A111, ENGLA120, PHILA101, PHILA201, or PSYA150 3
   - General Education Requirement 3
For students not required to take ENGLA111, 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.
   - BIOLA112 4
   - CHEM A104/L 4
   - ENGLA120, PHILA101, or PHILA201 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) 4
   - BIOLA111 Human Anatomy and Physiology I 4
   - BIOLA112 Human Anatomy and Physiology II 4
   - BIOLA240 Introductory Microbiology for Health Sciences 4
   - CHEM A103/LSurvey of Chemistry/Lab 4
   - CHEM A104/LIntroduction to Organic Chemistry and Biochemistry/Lab 4
   - DN A203 Normal Nutrition 3
   - PSYA150* Human Development 3
   - ANTH or ECON* General Education Requirement 3
   - PSYor 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 Licensure 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 A304 Foundations of Nursing II 4
NS A313 Health Disruptions I 2
NS A313L Health Disruptions I Lab 3
NS A313S Health Disruptions I Seminar 1
NS A401 Health Disruptions II 2
NS A401L Health Disruptions II Lab 3
NS A401S Health Disruptions II Seminar 1

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

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) 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)
   PSYA111 General Psychology (3)
   PSYA150 Human 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:
   HUMS A150 Marriage, Divorce and Intimate Relationships in the 90’s (3)
   HUMS/SWK A153 Human Relations (3)
   HUMS A256 Groups and Organizations (3)
   HUMS A350 Men and Masculinity (3)
   PSYA245 Child Development (3)
   PSYA261 Introduction to Experimental Psychology (4)
   PSYA345 Psychology of Abnormal Behavior (3)
   SOC A202 An Introduction to Marriage, Family and Intimate Relationships (3)
   SOC A246 Adolescence (3)
   SOC/PSYA453 Application of Statistics to the Social Sciences (3)

Substance Abuse Emphasis
Complete 6 credits from the following:
   HUMS A122 Substance Abuse as a Contemporary Problem (3)
   HUMS A123 Public Education and Prevention in Substance Abuse (3)
   HS/PSYA350 Drugs and Drug-Taking Behavior (3)
   HS/PSYA381 Substance Abuse Treatment (3)
   SWK A471 Addictions and Social Work (3)

Family and Youth Emphasis
Complete 6 credits from the following:
   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)
   PSYA245 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:
   ASLA101 Elementary Sign Language I (3)
   ASLA102 Elementary Sign Language II (3)
   ASLA201 Intermediate Sign Language I (3)
   HUMS A231 Applied Behavioral Analysis I (2)
   HUMS A232 Applied Behavioral Analysis II (2)
   PSYA445 Strategies of Behavior Change (3)
   PSYA455 Best Practices-Mental Health (3)

Diversity Issues Emphasis
Complete 6 credits from the following:
   AKNS A101 Alaska Native Languages I (4)
   AKNS A102 Alaska Native Languages II (4)
   AKNS A109 Alaska Native Language Orthography (4)
   AKNS A201 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. 16
4. A total of 60 credits is required for the degree.

RECOMMENDED COURSE SEQUENCE

First Semester
   ENGLA111 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
   PSYA111 General Psychology
   PSYA150 Human Development
   Major Speciality Emphasis course
   *GER (General Education Requirement)

Third Semester
   ANTH A200 or A202
   ENGLA211, 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
   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 UAAcatalog 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
   - 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 3
- HUMS A462 Human Services Practicum III 4

Fourth Semester
- General Education Requirement (GER) 3
- General Education Requirement (GER) 3
- General Education Requirement (GER) 3
- HUMS A414 Rural Treatment Strategies for Human Services Professionals 3
- HUMS A463 Human Services Practicum IV 4

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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: 6
   - HUMS A122 Substance Abuse as a Contemporary Problem 3
   - HS/PSYA350 Drugs and Drug-Taking Behavior 3

2. Complete 12 credits from the following: 12
   - HS/PSYA381 Substance Abuse Treatment (3)
   - HS/PSYA480 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)
   - PSYA443 Introduction to Substance Abuse and AIDS (3)
   - PSYA482 Advanced Treatment of Substance Abuse (3)
   - PSYA488 Introduction to Substance Abuse Assessment (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

Bachelor of Science, Health Sciences

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:
   - ENGLA111 Methods of Written Communication 3
   - ENGLA212 Technical Writing 3
   - BIOLA111/L Human Anatomy and Physiology I 4
   - BIOLA112/L Human Anatomy and Physiology II 4
   - PSYA111 General Psychology (3) or Human Development (3) 3
   - PSYA150 Health Care Issues in Alaska 3
   - CHEM A103/L Survey of Chemistry (4)
   - BIOLA102 Introduction to Biology (3)
   - BIOLA240/L Microbiology (4)

2. Complete one additional science course required by the MEDEX program: 3-4

3. Students accepted to the UAAB.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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MEDEX 452</td>
<td>Basic Clinical Pathology for the MEDEX Practitioner</td>
<td>4</td>
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<tr>
<td>MEDEX 453</td>
<td>Basic Clinical Skills for the MEDEX Practitioner</td>
<td>4</td>
</tr>
<tr>
<td>MEDEX 454</td>
<td>Adult Medicine I</td>
<td>4</td>
</tr>
<tr>
<td>MEDEX 455</td>
<td>Adult Medicine II</td>
<td>4</td>
</tr>
<tr>
<td>MEDEX 456</td>
<td>Maternal &amp; Child Health for the MEDEX Practitioner</td>
<td>2</td>
</tr>
<tr>
<td>MEDEX 457</td>
<td>Behavioral Science Skills for the MEDEX Practitioner I</td>
<td>2</td>
</tr>
<tr>
<td>MEDEX 458</td>
<td>Behavioral Science Skills for the MEDEX Practitioner II</td>
<td>2</td>
</tr>
<tr>
<td>MEDEX 459</td>
<td>Behavioral Science Skills for the MEDEX Practitioner III</td>
<td>2</td>
</tr>
<tr>
<td>MEDEX 460</td>
<td>Principles of Patient Management for the MEDEX Practitioner I</td>
<td>2</td>
</tr>
<tr>
<td>MEDEX 461</td>
<td>Principles of Patient Management for the MEDEX Practitioner II</td>
<td>2</td>
</tr>
<tr>
<td>MEDEX 462</td>
<td>Maternal &amp; Child Health for the MEDEX Practitioner II</td>
<td>2</td>
</tr>
<tr>
<td>MEDEX 468</td>
<td>Emergency Medicine I</td>
<td>2</td>
</tr>
<tr>
<td>MEDEX 469</td>
<td>Emergency Medicine II</td>
<td>2</td>
</tr>
</tbody>
</table>

4. Students must also complete the following Physician Assistant courses at the University of Alaska Anchorage (senior year):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS A463</td>
<td>Physician Assistant Clinical Clerkship I</td>
</tr>
<tr>
<td>HS A464</td>
<td>Physician Assistant Clinical Clerkship II</td>
</tr>
<tr>
<td>HS A465</td>
<td>Physician Assistant Family Practice Clerkship I</td>
</tr>
<tr>
<td>HS A466</td>
<td>Physician Assistant Family Practice Clerkship II</td>
</tr>
</tbody>
</table>

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, AFB0S1@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.
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

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PARALEGAL STUDIES

www.uaa.alaska.edu/just
College of Arts & Sciences Building (CAS), Room 306, (907) 786-1810

CREDIT, 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 BAor Associate of Arts in conjunction with the Paralegal Certificate. Paralegal courses fulfill the Justice elective requirements for the Justice BAand 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 (ENGLA111, A211, A212, A213, A311, A312, or A414) with a minimum grade of "B" in each class.  
   Fall, Spring or Summer Semester (6 Credits)

2. Complete the following required core courses (31 credits):

   PARLA101 Introduction to Law 3  
   PARLA215 Paralegal Studies 3  
   PARLA235 Factual Investigation and Interviewing 2  
   PARLA236 Ethics and Paralegals 1  
   PARLA238 Civil Procedure 3  
   PARLA256 Legal Research I 3  
   PARL/JUST A352 Substantive Criminal Law (3) 3
   or PARL/JUST A354 Criminal Procedure (3)
   or PARLA362 Commercial Law (3)
   or other upper division law course from Justice curriculum with paralegal coordinator approval (3)  
   PARLA375 Litigation 3  
   PARLA456 Advanced Legal Analysis and Writing 4  
   PARLA470 Law of Government Regulation 3  
   JUST A495 Internship (1-6) 3
   Falls, Spring or Summer Semester (6 Credits)

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.  
   Spring Semester  
   Social Science 3
   Fall, Spring or Summer Semester (3 Credits)
   Social Science 3

4. Complete 3 credits of any elective at the 100-level or above.  
   Spring Semester

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.  
   Spring Semester

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  
   PARLA101 Introduction to Law 3  
   PARLA215 Paralegal Studies 3  
   ENGLA111 Methods of Written Communication ("B" or better is required in this course) 3
   Humanities 3  
   Natural Science 3  
   Spring  
   PARLA235 Factual Investigation & Interviewing 2  
   PARLA236 Ethics & Paralegals 1  
   PARLA238 Civil Procedure 3  
   ENGLA211 Academic Writing About Literature or (ENGLA212, A213, A311, A312, A414) ("B" or better required in this course) 3
   Humanities 3

Second Year  
Fall Semester  
   PARLA256 Legal Research I 3  
   PARL Elective 3  
   PARLA470 Law of Government Regulations 3  
   Social Science 3  
   Spring Semester  
   PARLA456 Advanced Legal Analysis & Writing 4  
   PARLA375 Litigation 3  
   Humanities 3  
   Natural Science 3  
   Social Science 3  
   Fall, Spring or Summer Semester (6 Credits)  
   JUST A495 Internship 3  
   Social Science 3

Paralegal Certificate Only (Prior BA or Associate of Arts completed)  
First Year  
Fall Semester  
   PARLA101 Introduction to Law 3  
   PARLA215 Paralegal Studies 3  
   Spring Semester  
   PARLA235 Factual Investigation & Interviewing 2  
   PARLA236 Ethics & Paralegals 1  
   PARLA238 Civil Procedure 3  
   PARL Elective 3
   Falls, Spring or Summer Semester (3 Credits)

Second Year  
Fall Semester  
   PARLA256 Legal Research I 3  
   PARLA470 Law of Government Regulations 3  
   Spring Semester  
   PARLA456 Advanced Legal Analysis & Writing 4  
   PARLA375 Litigation 3  
   Fall, Spring or Summer Semester (3 Credits)  
   JUST A495 Internship 3

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Lawrence Trostle, Associate Professor, AFLCT@uaa.alaska.edu
Darryl Wood, Associate Professor, AFDSW@uaa.alaska.edu
SOCIAL WORK

www.uaa.alaska.edu/socwork/
Classroom Building K (K), Room 218, (907) 786-6900

The educational purpose of the Bachelor of Social Work program at the University of Alaska Anchorage is to prepare graduates for beginning professional social work practice. Preparation for professional practice builds on a broad based liberal arts education accomplished through completion of General Education and major degree requirements.

Social work is a profession committed to assisting individuals, families, groups, organizations, communities and society as a whole in the improvement of the quality of life through the amelioration of social problems, equitable distribution of social resources, and client empowerment. Within an overall emphasis on client-centered problem solving, the Bachelor of Social Work degree program at University of Alaska Anchorage is guided by the following principles:

1. Social work practice is based on selective use of knowledge in change efforts with human systems and social problems.
2. Social work practice recognizes human diversity as a primary element.
3. Social work practice is based on professional values.
4. Social work practice is based on professional relationships.
5. 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 A461 A/B and SWK A462 A/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 UA and applied toward the Bachelor of Social Work degree. Approval from the UAASchool 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
   - BAA151 or ECON A201
   - CIOS A105
   - ENGLA311, A312, or A414
   - ENGLA121 or A301 or A302 or A305 or A306 or A307
   - ENGLA120 or PHILA101 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 (BIOLA102, A105, A106, A111, A112, A113, A114) which are specific prerequisites required in order to register in SWK A106, A306, and A342. ENGLA213 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 3
   - CIOS A105 3
   - BAA151 or ECON A201 3
   - ENGLA311, A312, or A414 3
   - ENGLA121 or A301 or A302 or A305 or A306 or A307 3
   - ENGLA120 or PHILA101 or A201 or A301 or A421 3
   - SOC A201 or JUST A110 3

   The following courses are required only if they are not taken to satisfy GER requirements (as noted above):

   - SOC A101 3
   - PSYA150 3
   - One of the following: BIOLA102 or A105 or A106 or A111 or A112, or A113, or A114 3-4
   - HIST A101 3
   - HIST A102 3

2. Complete the following required core courses (48 credits):

   - SWK/HUMS A106 Introduction to Social Welfare 3
   - SWK A306 Introduction to Social Work 3
   - SWK A324 Social Work Research with Statistical Application 3
   - SWK A342 Human Behavior in the Social Environment 3
   - SWK A343 Human Behavior: Diversity and Discrimination 3
   - SWK A360 Introduction to Generalist Social Work Practice 3
   - SWK/ SOC A407 Formal Organizations 3
   - SWK A461A Social Work Practice I 3
   - SWK A461B Social Work Practicum I 6
   - SWK A462A Social Work Practice II 3
   - SWK A462B Social Work Practicum II 6
   - Upper-division Social Work electives 6

3. Complete electives to total 120 credits.

4. A total of 120 credits is required for the degree, of which 48 must be upper-division.

RECOMMENDED COURSE SEQUENCE

First Year

**Fall Semester**

- ENGLA111 Methods of Written Communication 3
- SOC A101 Introduction to Sociology 3
- HIST A101 Western Civilization I 3
- Literature: (ENGLA121, A302, A305, A306, or A307) 3
- CIOS A105 Intro to PC Computers and Applications 3

**Spring Semester**

- COMM A111, A235, A237, or A241 3
- PSYA150 Human Development 3
- HIST A102 Western Civilization II 3
- ENGLA120, PHILA101, A201, A301, or A421 3
- Elective 3

Second Year

**Fall Semester**

- ENGLA211, A212, or A213 (A213 highly recommended) 3
- AS A252 or MATH A207 3
- Natural Science 3
- Natural Science Lab 1
- BAA151 or ECON A201 3
- Elective 3

**Spring Semester**

- SOC A201 or JUST A110 3
- BIOLA102 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 Social Environment 3
- SWK A360 Introduction to Generalist SW Practice 3
- Elective 3

**Spring Semester**

- ENGLA311, 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 A462A 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

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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.

Certificates and degrees from the high school diploma and Associate of Applied Science degree 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. Register weekdays in 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 Anchorage School District that eases the transition from high school to college. Also, students may earn college credit for vocational courses while still in high school. Information regarding these programs can be obtained from the UAA Advising and Counseling Center or the home high school.

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 health; e.g., a student would be expected to comfortably travel five miles over easy terrain. If a higher than average fitness level is required, a special note will identify the necessary level of fitness.

Good Fitness is defined as above average fitness relative to a typical, healthy adult. Courses that require good fitness will involve a moderate degree of physical activity; may involve travel over challenging terrain; may involve carrying a pack weighing 50 pounds or more; or may involve multiple hours of exercise. A student who is physically or mentally unprepared to withstand a moderate amount of exercise should not enroll in the course.

Excellent Fitness is defined as possessing health of outstanding quality or being in remarkably good physical condition. Excellent fitness is required for expedition courses.
VENUE AND TERRAIN DIFFICULTY: Students will hike and travel in a variety of environments in AOEE courses. The following breakdown provides an overview of terrain difficulty.

Easy terrain can be negotiated by novices. Traveling is usually done on well-maintained trail systems; can include hiking, skiing or snowshoeing; elevation gains/losses generally under 500 feet per mile; and stream crossings of calf deep or less. Off-trail touring includes traveling on firm ground over gentle terrain.

Moderate terrain requires good physical fitness. Traveling is usually done on rugged trails or off trail. The hiking often includes inclines/declines of 500 to 1500 feet per mile. Off-trail travel can include bushwhacking; uneven, wet or marshy ground; scrambling up, over or around small terrain features; and river crossings up to knee deep.

Difficult terrain requires excellent physical fitness. Traveling is usually done off trail and can include uneven, challenging ground; lack of firm footing; steep tundra, rock or screen; wet, snowy or icy slopes; and thigh to waist deep river crossings. Specialized gear may be required for travel.

Extremely difficult terrain requires excellent physical fitness. Traveling is done off trail and participants must be prepared to endure all of the features listed under “difficult terrain” for long hours and potentially multiple days. Specialized gear is usually required for travel.

ACKNOWLEDGEMENT OF RISK, RELEASE OF LIABILITY AND MEDICAL QUESTIONNAIRE FORM: During the first class session, students will receive information about the course outings. A verbal description will provide additional information about the inherent risks associated with specific areas and activities. Students will be asked to complete acknowledgment 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, audiotapes, 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.
NONTRSCRIPTED 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.

NONTRSCRIPTED 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.

NONTRSCRIPTED DEPARTMENTAL CERTIFICATE, DIETARY MANAGER

See the Culinary Arts section of this chapter for details about this nontranscripted certificate.

NONTRSCRIPTED 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):
   - BAA166 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.

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.

NONTRSCRIPTED 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.

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:
   - HCAA055 Health Care Assistant 4
   - HCAA176 First Aid and CPR for Professionals 1
   - HCAA095 Health Care Assistant Practicum 3
2. Special application procedures are necessary to enroll. Contact Health Education and Training for further information.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE,  
THERAPEUTIC MASSAGE THERAPY  
Allied Health Sciences, Room 158, 786-6934

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:
   - Fall Semester
     - HCAA151 Human Health and Disease I 3
     - HCAA153 Fundamentals of Therapeutic Massage I 4
     - HCAA154 Assessment, Documentation, and Professional Communication for Massage Therapists 1
     - HCAA155 Professional Practice Management 1
     - HCAA176 First Aid and CPR for Professionals 1
   - Spring Semester
     - HCAA252 Human Health and Disease II 3
     - HCAA253 Fundamentals of Therapeutic Massage II 4
     - HCAA254 Structure, Function, Movement 3
     - HCAA295 Massage Therapy Clinical Practice I 2
   - Summer Semester
     - HCAA255 Advanced Therapeutic Massage Techniques I 3
     - HCAA256 Advanced Therapeutic Massage Techniques II 3
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.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE,  
MEDICAL ASSISTING CERTIFICATE  

See the Medical Assisting section of this chapter for details about the nontranscripted departmental certificate of completion.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE,  
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
   - Aqua Fitness Instructor
     - PE A141 Techniques in Fitness Instruction I 2
     - PE A243 Techniques in Aqua Fitness Instruction 2
3. Possess current CPR and Standard First Aid certifications for professionals.
4. A grade of “B” or better in each required course with an overall GPA of 3.0 or better for all courses required for the Fitness Leadership Nontranscripted Departmental Certificate of Completion.
APPRENTICESHIP TECHNOLOGIES
Beatrice McDonald Building (BMB), Room 210B, (907) 786-6423

Individuals, as well as Alaskan industries, must meet increasing training and certification requirements reflecting more complex business and industrial standards. The Associate of Applied Science Degree in Apprenticeship Technologies serves a statewide population seeking vocational training and supporting course work. The curriculum prepares graduates for the rapidly changing global workplace of the 21st century.

The Apprenticeship Technologies program is a 60-credit Associate of Applied Science degree coordinated by the University of Alaska Anchorage, and is delivered collaboratively through UAA, UAF, and UAS. The curriculum specifically reflects the commitment of the University to provide high-quality instruction and service to the public, through a practical integration of general course work and training for vocational-technical trades. Individuals receiving this degree must complete a formal apprenticeship program and hold journeyman level status in trades recognized by the 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:
   - ENGLA111 Methods of Written Communication 3
   - ENGLA212 Technical Writing 3
   - EMT A110 Emergency Trauma Technician 3
   - HUMS/PSYA153 Human Relations 3
   - MATH A107 College Algebra (4) 3-4
   - or
   - AS A252 Elementary Statistics (3)
   - COMM A111 Fundamentals of Oral Communication (3)
   - COMM A235 Small Group Communication (3)
   - COMM A237 Interpersonal Communication (3)
   - COMM A241 Public Speaking (3)
   - CIOS A105 Introduction to PC Computers and Applications (3)
   - CIOS A107 Macintosh Computer and Applications (3)
   - CS A100 Introduction to Computers (3)
   - Technical credits from approved apprenticeship program 38
   - See Non-Traditional Credit section of the catalog.
   - Elective 1
   - A total of 60 credits is required for the degree.

FACULTY
Ky Holland, Assistant Professor, AFKH@uaa.alaska.edu
Erie Johnson, Associate Professor, AFEVJ@uaa.alaska.edu
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, to homes and office buildings, to oil and gas pipelines. Their drawings provide the visual guidelines that show the technical details of the products and structures to be constructed. These drawings specify dimensions, materials to be used, and procedures to be followed. Drafters and technicians fill in technical details by using drawings, rough sketches, specifications, codes, and calculations previously made by engineers, surveyors, or architects. They use technical handbooks, tables, calculators, and computers to do this. Because many drafters and technicians may assist in design work, creativity is desirable. Good communication skills and the ability to work well with others is also important as they are part of a team of architects, engineers, and other technicians.

The AET Associate of Applied Science (AAS) degree requires 4 to 5 semesters to complete. AET Certificates require 2 to 3 semesters to complete.

The AET faculty assists students with curriculum planning to prepare for the Associate Technician Qualifying Examination offered by the National Institute for the Certification of Engineering Technicians (NICET), and for Construction Specification Institute (CSI) certification exams. 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 or Oral Communication or COMM A235 Small Group Communication (3)
   - or COMM A237 Interpersonal Communication (3)
   - or COMM A241 Public Communication (3)
   - ENGLA111 Methods of Written Communication 3

2. General Requirement
   - Choose Humanities*, Math, Natural Sciences, or Social Sciences. (See Associate Degree Course MATH A105 is recommended).
   - Classification List at the beginning of this chapter).
   - 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 ENGLA111.

3. A total of 30 credits is required for the certificate.
CIVIL DRAFTING

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:
   - AET A101 Fundamentals of CADD for Building Construction 4
   - AET A102 Methods of Building Construction 3
   - AET A111 Civil Drafting 3
   - AET A181 Intermediate CADD for Building Construction 4
   - AET A213 Civil Technology 4
   - AET A282 Advanced CADD Techniques 4
   - ENGLA111 Methods of Written Communication 3
   - COMM A111 Fundamentals or Oral Communication 3
   - COMM A235 Small Group Communication (3)
   - COMM A237 Interpersonal Communication (3)
   - COMM A241 Public Communication (3)

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).

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 A143 Mechanical and Electrical Drafting 3
   - AET A181 Intermediate CADD for Building Construction 4
   - AET A282 Advanced CADD Techniques 4
   - COMM A111 Fundamentals or Oral Communication 3
   - COMM A235 Small Group Communication (3)
   - COMM A237 Interpersonal Communication (3)
   - COMM A241 Public Communication (3)
   - ENGLA111 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).

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 A181 Intermediate CADD for Building Construction 4
   - AET A131 Structural Drafting 3
   - AET A231 Structural Technology 4
   - AET A282 Advanced CADD Techniques 4
   - COMM A111 Fundamentals or Oral Communication 3
   - COMM A235 Small Group Communication (3)
   - COMM A237 Interpersonal Communication (3)
   - COMM A241 Public Communication (3)
   - ENGLA111 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).

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. GEOLA111 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 6
   - AET A201 and AET A295 are recommended.
3. A total of 63 credits is required for the degree.

FACULTY

Jeffrey Callahan, Instructor, AFJCC1@uaa.alaska.edu
J. Ellen McKay, Professor, AFJEM@uaa.alaska.edu
Joel Condon, Assistant Professor, AFJJC@uaa.alaska.edu

AUTOMOTIVE AND DIESEL TECHNOLOGY

Auto & Diesel Technology Building (ADT), Room 207, (907) 786-1485

The Auto/Diesel Technology Department offers two AAS degrees, Automotive Technology and Diesel Technology. There are two program options for the Automotive Technology degree.

High-level reading skills are a must for successful automotive or diesel technicians. Textbooks and shop manuals are written at the postsecondary reading level. All ADT classes require 2-3 hours of outside preparation for each classroom hour. Typically, full-time students will study 3-4 topics per semester and spend approximately 35-40 hours per week preparing for and attending classroom and laboratory/shop classes. Prospective students are provided with a list of required tools for their selected program. Students are required to supply their own industry quality tools and tool box. Special purchase arrangements for the required tools are available from various sources at special student pricing. Students should plan ahead and have all sources of financial aid secured prior to registration for classes.

In addition to the General University Requirements, Automotive and Diesel Technology AAS degree and certificate programs have specific advising and admissions procedures. All students will be admitted as pre-majors until they have completed the admissions process. Contact the ADT program for a complete information packet and current application process. Postsecondary transcripts, SAT, or ASSET placement test scores must be available. A keyboarding assessment is required to prepare for the computer competency requirement. A resume of work experiences and a letter stating why the individual wants to become an automotive or diesel technician is required as part of the ADT program advising file. Upon receipt of the above documents an ADT faculty advisor will be assigned to assist the student in advancing to official ADT major status and developing their educational plan.

Although students may enroll in a maximum of 18 credits of ADT A195, Practicum I, only 6 credits apply to the Certificate in Automotive Technology; Non-Transcripted Departmental Certificates of Completion in Automotive Electrical; Automotive Brakes, Suspension and Alignment; and Automotive Power Trains, and the AAS degree in Automotive Technology.
AUTOMOTIVE TECHNOLOGY (GENERAL)

Note: Admission to the AAS degree and Certificate in General Automotive Technology currently is suspended. Contact the department for details.

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.

DIESEL TECHNOLOGY

NOTE: The Diesel Technology program at UAA is in the final stages of curriculum review. Please contact the department for more information.

The UAADiesel Technology program is being replaced with an emphasis in Heavy Duty Transportation and Equipment (HDTE). The proposed AAS and certificate in HDTE are designed to teach students the skills needed to be successful as technicians in the medium and heavy duty truck and equipment service industry.

CERTIFICATE, AUTOMOTIVE TECHNOLOGY

Note: Admission to the certificate program in Automotive Technology is currently suspended. Contact the department for details.

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.

1. Complete the following required courses:

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<th>Third Semester</th>
<th>Fourth Semester</th>
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<td>Automotive Practicum I (1-6)</td>
<td>Auto Fuel Systems</td>
<td>Auto Heating and A/C</td>
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<td>Suspension and Alignment</td>
<td>Engine Performance</td>
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<td>Brake Systems</td>
<td>Suspension and Alignment</td>
<td>Auto Heating and A/C</td>
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2. A total of 51 credits is required for the certificate.
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 Auto Electrical I 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 A121 Auto Electrical I 3
   ADT A131 Auto Electrical II 3
   ADT A195 Automotive Practicum I (1-6) 6
   ADT A282 Power Trains III 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 Auto Electrical I 3
   ADT A130 Basic Auto Engines 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.

ASSOCIATE OF APPLIED SCIENCE, AUTOMOTIVE TECHNOLOGY

Note: Admission to the AAS degree program in General Automotive Technology currently is suspended. Contact the department for details.

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:

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.

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 Auto Electrical I 3
   ADT A130 Basic Auto Engines 3
   ```

   Second Semester
   
   ```
   ADT A14 Power Trains II 3
   ADT A162 Suspension and Alignment 4
   ```

2. A total of 66 credits is required for the degree.

   Note: Admission to the AAS degree program in General Automotive Technology currently is suspended. Contact the department for details.
FORD ASSET PROGRAM OPTION

ADMISSION REQUIREMENTS
Specific admission requirements apply to this option. Student selection occurs up to 3 months prior to the start of the program. Accepted students will have met admission criteria and been selected by a sponsoring Ford, Lincoln, Mercury dealership.

GENERAL UNIVERSITY REQUIREMENTS
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 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 215  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.

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 UAAASEP instructor with a resume and a copy of their driving record.
2. Admission to UAAASEP requires employment by a sponsoring Alaskan General Motors dealership.
3. Apply for admission to UAAand to the UAAASEP 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 UAAEnrollment Services, 3211 Providence Drive, Anchorage, Alaska 99508.
5. Present evidence to UAAASEP 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 UAAAdvising and Counseling Center. Call (907) 786-4500 to make arrangements.

6. Demonstrate English language proficiency through appropriate score on English Placement Test administered by UAAAdvising and Counseling Center or through presentation of transcripts for Department of English evaluation. Generally, applicants prepared for entry into ENGLA111 have sufficient proficiency for entry into the UAAASEP.

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 A102  Introduction to Automotive Technology 3
   ADT A170  General Motors ASEP 1 9
   One AAS degree requirement 3
   Second Semester (Spring)
   ADT A171  General Motors ASEP 2 12
   One AAS degree requirement 3
   Third Semester (Summer)
   ADT A270  General Motors ASEP 3 12
   One AAS degree requirement 3
   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.

FACULTY
Tol Fishburn, Assoc Professor, AFTMF@uaa.alaska.edu
Kemp Pheley, Assistant Professor, AFKP@uaa.alaska.edu
Emil Remus, Professor, AFEHR@uaa.alaska.edu
Kelly Smith, Instructor, AFKJS@uaa.alaska.edu

www.uaa.alaska.edu
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, Professional Piloting, and Air Traffic Control.

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.

GENERAL UNIVERSITY REQUIREMENTS

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

GENERAL EDUCATION REQUIREMENTS

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

MAJOR REQUIREMENTS

1. Complete the following required core courses (46 credits):
   - AT A100 Private Pilot Ground School 3
   - AT A102 Introduction to Aviation Technology 3
   - AT A133 Aviation Law and Regulations 3
   - AT A233 Aviation Safety 3
   - AT A235 Elements of Weather 3
   - AT A331 Human Factors in Aviation 3
   - AT A415 Company Resource Management 3
   - AT A420 Air Transportation System 3
   - BAA300 Organizational Theory and Behavior 3
   - BAA361 Human Resource Management 3
   - BAA461 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 A336 Air Service Operations 3
      - AT A337 Airline Operations 3
      - BAA233 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
      - PSYA380 Stress Management: Coping with Personal, Family, and Work Stress 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 admitted to the BSAT program, all subsequent flight training applicable to the Professional Piloting emphasis must be completed through the Aviation Technology Division.
3. To obtain credit for pilot certificates / ratings held prior to enrolling at UAA, a student must demonstrate proficiency for each certificate / rating. The proficiency check will be conducted by a representative of the Professional Pilot Program and performance must meet the applicable FAA Pilot Test Standard. It is the student’s responsibility to make arrangements for the required flight check(s) and to provide the aircraft.
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 A232 Aviation Navigation 3
   - AT A300 CFI Ground School 3
   - AT A301 CFI Flying 2
   - AT A332 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, 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

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 reciprocity 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.

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.

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.
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. ENGL212 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
   - ENGLA111 Methods of Written Communication 3

   **Spring Semester**
   - AT A132 History of Aviation 3
   - AT A240 Operations in Flight Service Station 3
   - Elective Social Science, Natural Science, Math, Humanities 3
   - One of the following: 3
     - AT A133 Aviation Law and Regulations (3)
     - AT A134 Principles of Aviation administration (3)
   - One of the following: 3
     - CIOS A262 Written Business Communications (3)
     - ENGLA211 Academic Writing About Literature (3)
     - ENGLA212 Technical Writing (3)
     - ENGLA213 Writing for the Social and Natural Sciences (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)
   - CIOS A110 Computer Concepts in Business (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**
   - BAA151 Introduction to Business (3)
   - BAA231 Fundamentals of Supervision (3)
   - PHILA301 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:

   - BAA166 Small Business Management (3)
   - CIOS A100 Keyboarding I (3)
   - CIOS A165 Office Procedures (3)
   - ECON A201 Principles of Macroeconomics (3)
   - PSYA111 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 FAAMechanic'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 FAAAirway 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 UAAto 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 FAAapproved 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 FAAMechanic’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 DEGREE

Complete the following application procedures:

1. Apply for admission to UAAand 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 UAAEnrollment 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 UAAAdvising and Counseling Center or through presentation of transcripts for department evaluation. Generally, applicants prepared for entry into ENGLA108-109 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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT A170</td>
<td>Acft Ground Operations and Safety</td>
<td>1</td>
</tr>
<tr>
<td>AT A171</td>
<td>Basic Aerodynamics</td>
<td>3</td>
</tr>
<tr>
<td>AT A172</td>
<td>Publications, Regulations and Records</td>
<td>3</td>
</tr>
<tr>
<td>AT A173</td>
<td>Acft Electrical Hardware</td>
<td>3</td>
</tr>
<tr>
<td>AT A174</td>
<td>Acft DC Electrical Systems</td>
<td>3</td>
</tr>
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<td>AT A174L</td>
<td>Acft DC Electrical Systems Lab</td>
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<td>AT A175</td>
<td>Drawing and Precision Measurement</td>
<td>2</td>
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<tr>
<td>AT A176</td>
<td>Acft Materials and Processes I</td>
<td>2</td>
</tr>
<tr>
<td>AT A177</td>
<td>Recip Engine Theory</td>
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<td>AT A178</td>
<td>Turbine Engine Theory</td>
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<td>AT A181</td>
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<td>AT A183</td>
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<td>AT A185</td>
<td>Sheetmetal Structures</td>
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<td>Sheetmetal Structures Lab</td>
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<td>AT A186</td>
<td>Non-destructive Inspection Methods</td>
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<td>AT A187</td>
<td>Recip Engine Overhaul</td>
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<td>AT A187L</td>
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<td>AT A273</td>
<td>Fluid Power Systems</td>
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<td>AT A276</td>
<td>Propeller Systems</td>
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<td>AT A277</td>
<td>Recip Engine Installation and Operations</td>
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<td>AT A278</td>
<td>Turbine Engine Repair and Overhaul</td>
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<td>AT A286</td>
<td>Acft Materials and Processes II</td>
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<td>AT A289</td>
<td>Turbine Engine Installation and Operations</td>
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<td>AT A364</td>
<td>Avionics Systems</td>
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<td>AT A367</td>
<td>Acft Assembly and Inspections</td>
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<td>AT A367L</td>
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</table>

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 A180 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

2. Complete the following (13 credits):
   - 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

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. The Associate of Applied Science degree may be completed in four semesters. Regular attendance is required in all university academic courses, and mandatory in those ground schools operated under Part 141 of the Federal Aviation Regulations.

Flight training courses are “open entry-open exit” and may be registered for any time during the semester: fall, spring, or summer. Costs for flight training are not included in tuition and fees. These costs are in addition to normally charged university tuition and fees.

Once formally enrolled at the University of Alaska Anchorage (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.

To obtain credit for pilot certificates/ratings held prior to enrolling at UAA, a student will be required to demonstrate proficiency for each certificate/rating. The proficiency check will be completed by a representative of the flight training department before credit will be allowed to satisfy UAA curriculum requirements. 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 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
   or
   *COMM A241 Public Speaking (3) 3
   *ENGLA111 Methods of Written Communication 3
   *ENGLA212 Technical Writing 3
   *MATH A105 Intermediate Algebra (3) 3-4
   or
   *MATH A107 College Algebra (4) 4
   VE A301 Principles of Technology 3
   *PHILA101 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 (PSYA111 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

2. A total of 63-64 credits is required for the degree.

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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 ENGLA110 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
   - ENGLA111 Methods of Written Communication 3
   - ENGLA212 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) 8
     or
   - PHYS A115 Physical Science I for Technicians (4) 8
     and
   - PHYS A116 Physical Science II for Technicians (4) 8

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) 3
     or
   - CS A207 C Programming (3) 3
   - ET A101 Basic Electronics: DC Physics 4
   - ET A102 Basic Electronics: AC Physics 4
   - ET A126 Principles of Logic and Gating 4
   - ET A173 Technical Introduction to Microcomputers 3
   - ET A240 Application of Integrated Circuits 3
   - ET A241 Microcomputer Interfacing 3
   - ET A242A/B Computer Peripheral Devices 4
     or
   - ET A245 Basic Electronics 4

2. Electives 2

3. A total of 60 credits is required for the degree.

CULINARY ARTS

Lucy Cuddy Center (CUDY), Room 126, (907) 786-4728

The Culinary Arts and Hospitality Division offers two degrees: An Associate of Applied Science (AAS) degree in Culinary Arts, and a Bachelor of Arts degree in Hospitality and Restaurant Management. Additionally, this division offers a non-transcripted departmental certificate of completion for Dietary Manager.

Persons employed in the foodservice industry who wish to update skills and knowledge may take culinary courses randomly. Students are strongly encouraged to contact a faculty advisor about prerequisites and other lab or course requirements.

The Culinary Arts and Hospitality and Restaurant Management Programs provide students the opportunity to acquire the culinary skills, management skills, and hospitality finesse needed to develop a career in the expanding hospitality and foodservice industry. An array of career possibilities is available to graduates in the areas of culinary production and professional management in restaurants, clubs, bakeries, hotels, hospitals, camps, catering facilities, institutions, and other related operations.

The Associate of Applied Science degree generally takes two years of full-time study to complete. With additional culinary electives, students may focus their studies in culinary/bakery, management, or hospitality.

In the third or fourth semester, the capstone experience for the Associate of Applied science degree is a 225 hour internship designed to provide direct hands-on advanced culinary experience. Arranged by the department, culinary internships are unpaid work experiences at an approved foodservice site.

The Bachelor’s degree generally takes four to five years of study to complete. Through an agreement with the University of Nevada Las Vegas (UNLV) and Northern Arizona University (NAU), students seeking the Bachelor degree are required to complete two semesters of hospitality/hotel/restaurant management studies at either UNLV (minimum 27 upper division credits) or NAU (minimum 24 upper division credits). Please note that students may have to pay non-resident tuition for out of state study.

The capstone experience for the Bachelor’s degree is an 800 hour Alaska internship, offered through UA 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):
   - CAA102 Nutrition 3
   - CAA104 Sanitation 2
   - CAA105 Principles of Food Science 3
   - CAA107 Culinary Cost Control 2
   - CAA110 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):
   - CAA102 Nutrition 3
   - CAA103 Culinary Skill Development 4
   - CAA104 Sanitation 2
   - CAA105 Principles of Food Science 3
   - CAA107 Culinary Cost Control 2
   - CAA110 Quantity Food Purchasing 2
   - CAA220 Foodservice Operations (3)
   - CAA223 Advanced Foods: Buffet and Garde Manger (3)
   - CAA225 Menu Making/Facility Layout and Design (3)
   - *CAA490 Current Topics in Foodservice and Nutrition (1-6)
*Only 3 credits of CAA490 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.
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
BAA A300 Organizational Theory and Behavior 3
BAA A343 Principles of Marketing 3
BAA A361 Human Resource Management 3
BAA A310 Consumer Behavior 3
BAA A463 Promotion Management 3
CIO S 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):
   HA335 Hospitality Law 3
   HA345 Human Resource Management 3
   HA355 Food and Beverage Cost Control 3
   HA400 Hospitality Sales Management 3
   HA490 Senior Seminar (last semester at NAU) 3

2. Complete three courses from the following (9 credits):
   HA340 Beverage and Bar Operations (3) (Must be 21 or older)
   HA390 International Hospitality Operations (3)
   HA401 Resort Management (spring semesters) (3)
   HA411 Club Management (spring semesters) (3)
   HA435 Hospitality Litigation (fall semesters) (3)
   HA477 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 3
   TCA 379 Catering Sales and Operations 3
   TCA 385 Convention Service Management 3
   HMD or TCA Elective (300 level or higher) 3

4. Internship Requirement
   CAA 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:
   UAADietary 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):
   CAA102 Nutrition 3
   CAA104 Sanitation 2
   CAA105 Principles of Food Science 3
   CAA107 Culinary Cost Control 2
   CAA220 Foodservice Operations 3
   CAA230 Foodservice Management 3
   CAA295A Foodservice Operations Practicum 1.5
   CAA295B 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

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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 Chairsde 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.

CERITFICATE REQUIREMENTS

1. Complete the following required courses (36 credits):
   - DAA110 Dental Radiography 4
   - DAA121 Chairsie Procedures I 6
   - DAA122 Chairsie Procedures II 8
   - DAA123 Biomedical Sciences for Dental Assistants 4
   - DAA124 Dental Materials and Application I 2
   - DAA125 Dental Materials and Application II 2
   - DAA126 Dental Sciences for Dental Assistants 1
   - DAA127 Dental Practice Management and Professionalism 3
   - DAA128 Dental Communication Skills 2
   - DAA195A Dental Assisting Practicum I 1
   - DAA195B 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):
   - DAA110 Dental Radiography 4
   - BIOLA102 Introductory Biology (3) 4
     and
   - BIOLA103 Introductory Biology Laboratory (1) 1
     or
   - BIOLA105 Fundamentals of Biology I (4)
   - DAA121 Chairsie Procedures I 6
   - DAA122 Chairsie Procedures II 8
   - DAA123 Biomedical Sciences for Dental Assistants 4
   - DAA124 Dental Materials and Application I 2
   - DAA125 Dental Materials and Application II 2
   - DAA126 Dental Sciences for Dental Assistants 1
   - DAA127 Dental Practice Management and Professionalism 3
   - DAA128 Dental Communication Skills 2
   - DAA195A Dental Assisting Practicum I 1
   - DAA195B Dental Assisting Practicum II 3
   - DN A203 Normal Nutrition (3) 3
     or
   - CAA102 Nutrition (3)
   - PSYA100 Understanding People (3) 3
     or
   - PSYA150 Human Development (3)
     or
   - PSY/HUMS A153 Human Relations (3)

2. Electives to total 60 credits. 5

3. A total of 60 credits is required for the degree.

FACULTY

Nancy Bish, Associate Professor, AFNKB@uaa.alaska.edu
Cindy Zimmerman, Assistant Professor, AFCJZ@uaa.alaska.edu

DENTAL HYGIENE

Allied Health Sciences Building (AHS), Room 160, (907) 786-6929

The registered dental hygienist is a licensed oral health educator and clinical operator who, as an auxiliary to the dentist, uses preventive, educational, and therapeutic methods which aid individuals and groups to attain and maintain optimum oral health. Dental hygiene services are utilized in general and specialty dental practices, in the armed services, and in programs for research, professional education, public health, school health, industrial health, and institutional and hospital care.

Clinical dental hygiene requires the ability to sit for long periods of time, good to excellent eye-hand coordination, and excellent fine hand motor skills. Dental Hygienists are exposed to bacteria and viruses. Use of protective glasses, face masks and surgical type gloves is required.

The Dental Hygiene program is accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and by the United States Department of Education. The Associate of Applied Science degree is a three-year endeavor comprising one year of science and general education courses and two years of course work in dental hygiene. The program prepares graduates clinically and academically to take the National and Western Regional Examining Boards for licensure.

The Dental Program application form asks a question concerning conviction of a misdemeanor or criminal activity within five years of application. Conviction of a felony does not automatically bar admission to the Dental Hygiene program. Possible convictions 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, 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.

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 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: CHEMA103/A103L, CHEM A104/A104L, BIOLA111, BIOLA112, BIOLA240. 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/PSYA153 or PSYA111, SOC A101, ENGLA111, COMMA111 (or COMM A235 or COMMA237 or COMM A241). Courses must be completed by the application deadline.

Application Procedure:

To be considered for admission, the application process must be completed by May 20th for acceptance into the program beginning in the fall of the same year.

1. Complete the Dental Hygiene program application and submit to the address below.
2. Provide proof of admittance into the University of Alaska Anchorage.
3. Request official transcripts be sent to the Dental Hygiene program to provide proof of completion of the courses listed under Admission Requirements 3 and 4.

Information and applications can be obtained by contacting:
UAADental 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. (ENGLA212 is recommended.)

MAJOR REQUIREMENTS

1. Complete the following required courses:
   Fall Semester - 1st year (18 credits)
   - DAA110 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)
   - or
   - *CAA102 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
Deborah Stauffer, Professor, AFDWS@uaa.alaska.edu
ELECTRONICS AND COMPUTER TECHNOLOGY

www.uaa.alaska.edu/et/dir1.htm
AYET@UAU.ALASKA.EDU
Gordon Hartlieb Building (GHB), Room 106, (907) 786-6465

Note: The Electronics Technology program at UAA is in the final stages of curriculum review. Please contact the department for more information.

The UA Electronics Technology program is being renamed Telecommunications, Electronics, and Computer Technology (TECT). The proposed AAS and certificates in TECT are designed to provide skills and education for entry into hi-tech demand job fields. Our graduates will be qualified to be employed as skilled technical support workers in fields including telecommunications, microchip manufacturing and computer support and repair in private industry as well as municipal, state and federal agencies. The industry and UA encourage both men and women to enter these highly technical and growing fields.

Matanuska-Susitna College Campus

To receive a One-Year Certificate of Training, students must satisfactorily complete the following courses:

1. Complete the following requirements (29 credits):
   - ET A104 DC Circuits 4
   - ET A106 Electronics Laboratory I 4
   - ET A111 Electronics Laboratory II 4
   - ET A122 Introduction to Electronic Devices 3
   - ET A123 Electronic Circuit Fundamentals 3
   - ET A125 AC Circuits 4
   - ET A126 Principles of Logic and Gating 4
   - ET A127 Microprocessor Fundamentals 3

2. A total of 29 credits is required for the MSC certificate.

To receive a One and One-Half Year Intermediate Certificate of Training, students must satisfactorily complete the following courses in addition to those indicated for the One-Year Certificate:

1. Complete the following requirements (12 credits):
   - ET A205 Transmitter Circuitry 3
   - ET A209 Receiver Circuitry 3
   - ET A216 Personal Computer Servicing 3
   - ET A217 Personal Computer Troubleshooting 3

2. A total of 41 credits is required for the MSC certificate.

To receive a Two-Year Advanced Certificate of Training, students must satisfactorily complete the following courses in addition to those indicated for the One-Year and One and One-Half Year Certificate:

1. Complete the following requirements (12 credits):
   - ET A218 Personal Computer Networking 3
   - ET A220 Wideband Systems I 3
   - ET A225 Principles of Microwave Electronics 3
   - ET A226 Industrial Electronics 3

2. A total of 53 credits is required for the MSC certificate.

ASSOCIATE OF APPLIED SCIENCE, ELECTRONICS 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.

MAJOR REQUIREMENTS

Matanuska-Susitna College Campus

1. Complete the following requirements (53 credits):
   - ET A104 DC Circuits 4
   - ET A106 Electronics Laboratory I 4
   - ET A111 Electronics Laboratory II 4
   - ET A122 Introduction to Electronic Devices 3
   - ET A123 Electronic Circuit Fundamentals 3
   - ET A125 AC Circuits 4
   - ET A126 Principles of Logic and Gating 4
   - ET A127 Microprocessor Fundamentals 3
   - ET A205 Transmitter Circuitry 3
   - ET A209 Receiver Circuitry 3
   - ET A216 Personal Computer Servicing 3
   - ET A217 Personal Computer Troubleshooting 3
   - ET A218 Personal Computer Networking 3
   - ET A220 Wideband Systems I 3
   - ET A225 Principles of Microwave Electronics 3
   - ET A226 Industrial Electronics 3

2. A total of 68 credits is required for the MSC degree.

FACULTY

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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, PNJJR@matsu.alaska.edu
Brian Williams, Assistant Professor, AFBKW1@uaa.alaska.edu
FIRE SERVICE ADMINISTRATION

**Allied Health Sciences Building (AHS), Room 158, (907) 786-6928**

The Fire Service Administration program provides entry-level knowledge and skills for students desiring careers in fire protection. The program enhances the ability of current fire department employees.

The Associate of Applied Science degree focuses on structural fire control. Students usually complete either two or three courses in Fire Service Administration each semester. Course rotation is dependent on sufficient enrollment. Generally, three years or six semesters are needed to complete the requirements and the electives. The degree cannot be completed in two years. The AAS degree is available at the Anchorage and Matanuska-Susitna College campuses.

A baccalaureate degree in Fire Service Administration is available through the Western Oregon State College Open Learning Fire Service Program. This is a A186 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 or by calling Western’s Fire Service Programs at 800-451-5767.

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):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSAA101</td>
<td>Introduction to Fire Science</td>
<td>3</td>
</tr>
<tr>
<td>FSAA105</td>
<td>Fundamentals of Fire Prevention</td>
<td>3</td>
</tr>
<tr>
<td>FSAA107</td>
<td>Fire Tactics and Strategy</td>
<td>3</td>
</tr>
<tr>
<td>FSAA111</td>
<td>Fire Company Organization and Management</td>
<td>3</td>
</tr>
<tr>
<td>FSAA117</td>
<td>Rescue Practices</td>
<td>3</td>
</tr>
<tr>
<td>FSAA202</td>
<td>Fire Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>FSAA204</td>
<td>Hazardous Materials I</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Complete 9 credits from the following courses or other FSA courses as approved by program coordinator:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMT A130</td>
<td>Emergency Medical Technician I (6)</td>
<td></td>
</tr>
<tr>
<td>FSAA115</td>
<td>Fire Apparatus and Equipment (3)</td>
<td></td>
</tr>
<tr>
<td>FSAA121</td>
<td>Introduction to Fire Chemistry (3)</td>
<td></td>
</tr>
<tr>
<td>FSAA123</td>
<td>Fire Investigation I (3)</td>
<td></td>
</tr>
<tr>
<td>FSAA151</td>
<td>Wildland Fire Control I (3)</td>
<td></td>
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<tr>
<td>FSAA206</td>
<td>Building Construction for Fire Protection (3)</td>
<td></td>
</tr>
<tr>
<td>FSAA210</td>
<td>Hazardous Materials II (3)</td>
<td></td>
</tr>
<tr>
<td>FSAA212</td>
<td>Related Codes and Ordinances (3)</td>
<td></td>
</tr>
<tr>
<td>FSAA214</td>
<td>Fire Protection Equipment and Systems (3)</td>
<td></td>
</tr>
<tr>
<td>FSAA217</td>
<td>Advanced Rescue Practices (3)</td>
<td></td>
</tr>
</tbody>
</table>

3. Complete an additional 15 credits of electives.

4. A total of 60 credits is required for the degree.

FACULTY

Tom Wells, Coordinator
INDUSTRIAL PROCESS INSTRUMENTATION

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

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 ENGLA107 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
   - ENGLA111 Methods of Written Communication 3
   - ENGLA212 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
   - PHYS A116 Physical Science II for Technicians (4)
   - PHYS A123/L Basic Physics I (4)
   - CHEM A105/L General Chemistry I (4)

Mandatory Requirements

1. Complete the following required courses (48 credits):
   - ET A101 Basic Electronics: DC Physics (4) 4
   - 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) 3
   - PETR A230 Practical Distillation (3)
   - 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

Community and Technical College
Beatrice McDonald Building (BMB), Room 210B, (907)786-6423

NOTE: The new Logistics Operations program is in the final stages of curriculum review. Please contact the department for more information.

The proposed Logistics Operations AAS degree is designed to prepare graduates for employment in operational and technical aspects of global logistics career fields.
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

1. Certificate Requirements
   - University of Alaska Anchorage 2001-2002 Course Catalog Chapter 9  Page 191
   - www.uaa.alaska.edu

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. An 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
   - BIOLA100 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
   - CAA102 Nutrition 3
   - MAA101 Medical Terminology I 3
   - MAA104 Medical Terminology II 3
   - MAA120 Medical Office Procedures I 4
   - MAA125 Medical Office Procedures II 4
   - MAA140 Medical Transcription I 3
   - MAA141 Medical Transcription II 3
   - MAA150 Clinical Procedures I 4
   - MAA155 Clinical Procedures II 4
   - MAA295 Medical Office Externship 5
   - PSYA150 Human 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 Walto, 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.
ASSOCIATE OF APPLIED SCIENCE, 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, BIOLA111, BIOLA112 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. Current immunization status for diphtheria-tetanus, rubella, hepatitis, and current screening test for tuberculosis. (Required immediately following acceptance into program).
6. Prior to enrolling in MEDT A295, students must demonstrate computer competency using one of the following methods:
   • A 3 credit or equivalent course in introduction to data processing or microcomputers.
   • Work related experience in computer competency approved by the Medical Laboratory Technology faculty.
   • 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):
   - BIOLA111 Human Anatomy and Physiology I 4
   - BIOLA112 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: CHEM and BIOL courses must have been completed within the last five years. MEDT transfer courses must be approved by MEDT faculty.

2. A total of 67 credits is required for the degree.

FACULTY

Heidi Mannion, Term Assistant Professor, AFHAM@uaa.alaska.edu

OCCUPATIONAL SAFETY AND HEALTH

Beatrice McDonald Building (BMB), Room 106, (907) 786-6426

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)786-6445 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):
   - BIOLA100  Human Biology 3
   - CHEMA103  Survey of Chemistry 3
   - CHEMA103L Survey of Chemistry Laboratory 1
   - ENGLA212  Technical Writing 3
   - ENGLA212  Technical Writing 3
   - MATHA105  Intermediate Algebra 3
   - OSH A101  Introduction to Occupational Safety and Health 3
   - OSH A108  Injury Prevention and Risk Management 4
   - OSH A110  Program Assessment, Development, and Implementation 4
   - OSH A112  Introduction to Injury Epidemiology 3
   - OSH A120  Safety Program Management and Recordkeeping 2
   - OSH A180  Introduction to Industrial Hygiene 4
   - OSH A201  Workplace Injury and Incident Evaluation 4
   - OSH A210  Training Needs and Methods 3
   - OSH A230  Principles of Ergonomics 3
   - OSH A240  Workplace Monitoring: Instrumentation and Calibration 3
   - OSH A250  Hazardous Materials Operation 3
   - TECH A495*  Technical Internship 3
   - VE A301  Principles of Technology 3

   * An advisor approved elective course may be substituted for TECH A495, Technical Internship.

2. A total of 64 credits is required for the degree.

OFFICE MANAGEMENT AND TECHNOLOGY

Adult Learning Center, 3401 Minnesota (907) 276-6007 (off campus) Beatrice MacDonald Building Room 210 (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:
   - CIOS105  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.

4-9

7. A total of 30 credits is required for the certificate.
RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is highly recommended that students follow this course sequence:

First Year

Fall Semester (15 credits):

- CIOS A100 Keyboarding I* 3-6
- CIOS A100A, A100B and A100C (1 credit each)*†
- CIOS A102 Keyboarding Skill Building* or
- CIOS A260 Keyboarding II*
- CIOS A105 Introduction to PC Computers and Applications or
- CIOS A110 Computer Concepts in Business
- CIOS A160 Business English
- CIOS A165 Office Procedures
- Elective(s)** 3

Spring Semester (13-17 credits):

- CIOS A115 Selected Introductory Word Processing Applications* or
- CIOS A215 Selected Advanced Word Processing Applications*
- CIOS A166 Filing 1-3 or
- CIOS A276 Records Management
- CIOS A167 Proofreading 1
- CIOS A262 Written Business Communications
- CIOS A264 Interpersonal Skills in Organizations or
- BAA231 Fundamentals of Supervision†† 3
- Elective(s)** 4-6

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) 3
   or
   - CIOS A100A* Keyboarding I: A (1)
   - CIOS A100B* Keyboarding I: B (1)
   - CIOS A100C* Keyboarding I: C (1)
   - CIOS A160 Business English
   - CIOS A161 Business Math
   - CIOS A165 Office Procedures
   - CIOS A262* Written Business Communications
   - CIOS A264 Interpersonal Skills in Organizations
   - CIOS A276 Records Management

*Credit will not be counted for BOTH CIOS A100 and CIOS A100A, A100B, and A100C.

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
   - BAA131 Personal Finance
   - 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) or
   - 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)
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 (3) and Applications
   - 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)
   - 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)

*If CIOS A262 was taken to meet the Written Communications General Education Requirement, then complete 3 elective CIOS credits of your choice.
9. Complete 7-9 credits from the following: 7-9 credits
   - CIOS A166 Filing (1)
   - CIOS A276 Records Management (3)
   - CIOS A263 Professional Secretarial Procedures (3)
   - BAA231 Introduction to Business (3)
   - BAA166 Small Business Management (3)

10. Complete 0-5 elective credits to total 60 credits. 0-5 credits
   - 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 credits
   - 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 credits
   - 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 credits
   - CIOS A215 Selected Advanced Word Processing Applications (1)

5. Complete 3 credits from the following: 3 credits
   - CIOS A262* Written Business Communications 3
   - CIOS A263 Professional Secretarial Procedures (3)
   - BAA151 Introduction to Business (3)
   - BAA231 Fundamentals of Supervision (3)
   - PARLA101 Introduction to Law (3)
   - JUST A110 Introduction to Justice (3)
   - BA/JUST A241 Business Law I (3)

6. Complete 3 credits from the following: 3 credits
   - 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 credits
   - CIOS A261 Keyboarding III (3)
   - CIOS A272 Law Office Procedures: Litigation (3) Documents
   - CIOS A273 Law Office Procedures: Client Documents (3)
   - CIOS A274 Alaska Rules of Civil Procedures (3)
   - CIOS A263 Professional Secretarial Procedures (3)
   - 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)
   - BAA151 Introduction to Business (3)
   - BAA231 Fundamentals of Supervision (3)
   - PARLA101 Introduction to Law (3)
   - JUST A110 Introduction to Justice (3)
   - BA/JUST A241 Business Law I (3)

8. Complete the following (3 credits):
   - CIOS A295C Office Systems Internship (1-6) 3
   - 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
   - CIOS A161 Business Math 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 A261 Keyboarding III 3
   - CIOS A262 Written Business Communications† 3
   - CIOS A264 Interpersonal Skills in Organizations 3
   - BAA231 Fundamentals of Supervision†† 3

Second Year

Fall Semester (15-17 credits):
   - ACCT A101 Principles of Financial Accounting I 3
   - ACCT A120 Bookkeeping for Business I 3
   - ENGL A111 Methods of Written Communication 3
   - COMM A111, A235, A237 or A241 3
   - General Requirement** 3
   - Elective (must be approved by CIOS advisor) 3
   - Elective 0-2

Spring Semester (15 credits):
   - BAA151 Introduction to Business 3
   - BAA166 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 BAA231 as part of this degree.
PARAMEDICAL TECHNOLOGY
Allied Health Sciences Building (AHS), Room 158, (907) 786-6928

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 UAAEmergency Services Department for specific admission information. Completion of the UAAadmission 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. ENGLA212 is recommended. BIOLA111 and BIOLA112 fulfill the six-credit general requirement for the AAS degree.

MAJOR REQUIREMENTS
1. Complete the following required courses (56 credits):
   - BIOLA111 Human Anatomy and Physiology I 4
   - BIOLA112 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.
Petro/chemical plant operations or instrumentation. The certificate provides specific training in oil production, and pipeline operations. Students are prepared for employment as chemical plant operators, pump station operators, production operators, water flood operators, service company technicians, or lab technicians.

Certificate, Petroleum Technology

Operations Option
1. Complete the following requirements (30 credits):
   - ENGLA111 Methods of Written Communication 3
   - MATH A101 Technical Mathematics 3
   - PETR A105 Petroleum Science I 3
   - PETR A106 Petroleum Science II (3) 3
   - 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):
   - ENGLA111 Methods of Written Communication 3
   - ET A151 Basic Electricity 4
   - ET A245 Basic Electronics 4
   - ET A246 Electronic Industrial Instrumentation (3) 3
   - 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.

Associate of Applied Science, Petroleum Technology

Admission Requirements
1. ASSET placement at the MATH 100 entry-level or above.
2. ASSET placement for reading at the ENGLA110 level or above.
3. Students placing below these math and reading levels on ASSET must see a faculty advisor in Petroleum Technology prior to registering for petroleum technology 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 (9 credits):
   - ENGLA111 Methods of Written Communication 3
   - ENGLA212 Technical Writing 3
   - COMM A111 Fundamentals of Oral Communication 3
2. General Requirements (14 credits):
   - MATH A101 Technical Mathematics (3) 3
   - MATH A105 Intermediate Algebra (3)
   - PHYS A115 Physical Science I for Technicians (4) 8
   - PHYS A116 Physical Science II for Technicians (4)
   - PHYS A115 Physical Science I for Technicians (4) and
   - CHEM A105/L General Chemistry I (4)
   - PHYS A123/L Basic Physics I (4) and
   - CHEM A105/L General Chemistry I (4)
   *CIOS A105 Introduction to PC Computers and Applications (3) 3
   *CIOS A110 Computer Concepts in Business (3)
   *If student has demonstrated computer background, please see advisor about recommended substitute course.

Major Requirements
1. Complete the following required courses (21 credits):
   - PETR A105 Petroleum Science I 3
   - PETR A106 Petroleum Science II 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) 3
   - PETR A231 Production Plant Operations (3)
   - PETR A270 Industrial Mechanical Equipment 3
2. Choose 3 courses from the following (9-11 credits):
   - ET A101 Basic Electronics: DC Physics (4) 9-11
   - ET A151 Basic Electricity (4)
   - ET A245 Basic Electronics (4)
   - PETR A121 Surface Oil Field Equipment II (3)
   - PETR A150 Mechanical Drafting for the Petroleum Industry (3)
   - PETR A155 Blueprint Reading (3)
   - PETR A230 Practical Distillation (3)
   - PETR A231 Production Plant Operations (3)
   - PETR A240 Industrial Process Instrumentation III (3)
   - PETR A244 Industrial Process Instrumentation IV (3)
3. With advisor approval, complete an additional 5-7 elective credits.
4. A total of 60 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 ENGLA111.
The new Process Technology program is in the final stages of curriculum review. Please contact the department for more information.

The proposed AAS in Process Technology is designed to provide education/training that will enable individuals to obtain employment in 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 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, blue print 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 must 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 all Refrigeration and Heating courses to receive the Certificate.

MAJOR REQUIREMENTS
1. Complete the following required courses (50 credits):
   First Year
   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

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.

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 all 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 II 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 54 credits is required for the certificate.

TECHNOLOGY

Beatrice McDonald Building (BMB), Room 106, (907) 786-6445

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 four 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.

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.

FACULTY

Jack Cypher, Instructor, PFJLC@mat-su.alaska.edu
Dan Mielke, Assistant Professor, PFDMM@mat-su.alaska.edu
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. ENGLA212 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 A115 Basic Shielded Metal Arc Welding 2
   - 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
   - TECH A295 Technical Internship 6-9
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 UA 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):
   - ENGLA312 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) 3
   or
   - EDSE A312 Human Development and Learning (3)
   - EDSE A336 Classroom Management and Collaboration 3
   - TECH A320 Construction Systems 2
   - TECH A325 Transportation Systems 2
   - TECH A330 Manufacturing Systems 2
   - TECH A335 Communications Systems 2
   - TECH A402 Operational Safety 3
   - VE A395 Practicum in Vocational Education 3
   - VE A411 Philosophical Foundations of Vocational Education 3
   - VE A443 Methods of Instruction in Vocational Education 3
   - VE A452 Student Teaching; Vocational Education 12

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. 6

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:
   - ACCT A201 Principles of Financial Accounting 3
   - ACCT A202 Principles of Managerial Accounting 3
   - ECON A201 Principles of Macroeconomics 3
   - ECON A202 Principles of Microeconomics 3
   - Upper-division BA courses for which prerequisites are met 9
   - TECH A433 Project Design, Implementation, and Control (3) 6
   or
   - TECH A443 Total Quality Leadership(3)
   - Upper-division electives offered by the College of Business and Public Policy and approved by the faculty advisor (6)

2. A total of 125 credits is required for the Business Option, of which 42 credits must be upper-division.

**SCIENCE AND TECHNOLOGY OPTION**

Note: Total credits needed for graduation may increase unless Science and Technology Option students take at least 15 credits of upper-division work in the fulfillment of General Education Requirements and Natural Sciences/Quantitative Skills Requirements.

1. Complete the following required courses:
   - TECH A402 Operational Safety 3
   - TECH A422 Senior Project 3
   - TECH A433 Project Design, Implementation and Control 3
   - TECH A443 Total Quality Leadership 3
   - VE A301 Principles of Technology 3

2. Complete a minimum of 9 credits from the following with faculty advisor approval:
   - AET A381 Geographic Information Systems: Technology and Applications (4)
   - ANTH A455 Medical Anthropology (3)
   - AT A332 Transport Aircraft Systems (3)
   - AT A361 Federal Aviation Administration Inspection Authorization (3)
   - AT A362 Aerodynamics and Flight Performance (3)
   - AT A364 Avionics Systems (3)
   - AT A420 Air Transportation System (3)
   - AT A431 Aircraft Accident Investigation (3)
   - DH A320 Dental Health Services (2)
   - DH A395 Clinical Practicum IV for Dental Hygienists (1-3)
   - DH A420 Community Dental Health (3)
   - DH A495 Alternative Practicum for Dental Hygienists (2)
   - ET A340 Microcontroller Electronics (4)
   - ET A350 Federal Licensing Preparation (4)
   - HS/SOC A370 Medical Sociology (3)
   - HS A379 Health Data Analysis (4)
   - HS/NS A433 Health Education: Theory and Practice (3)
   - TECH A310 NDE for Managers and Technicians (3)
   - TECH A415 Accident Investigation (4)
   - TECH A416 Safety Appraisal Methodology (3)
   - VE/TECH A412 Advanced Technical Experiences (1-9)*
   - VE/TECH A495 Technical Internship (3)*
   - WELD A310 Applied Evaluation of Components and Materials (3)
   - WELD A410 Advanced Nondestructive Testing (3)*

   *VE/TECH A412 is limited to 6 credits. The maximum number of total credits for VE/TECH A412 and VE/TECH A495 is 9.

3. A total of 122 credits is required for the Science and Technology Option, of which 42 credits must be upper-division.
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:
   - AS A253 Applied Statistics for the Sciences (4) 3-4
   - or
   - AS A307 Probability and Statistics (3)
   - AT A331 Human Factors in Aviation 3
   - AT A495 Aviation Internship II (1-3) 3
   - BAA300 Organizational Theory and Behavior 3
   - BAA361 Human Resource Management 3
   - BAA461 Negotiations and Conflict Management 3
   - PHYS A123/L Basic Physics I (4) 3-4
   - or
   - VE A301 Principles of Technology (3)
   - TECH A443 Total Quality Leadership 3

2. Select a minimum of 9 credits from the following courses with faculty advisor approval: 9
   - AT A332 Transport Aircraft Systems (3)
   - AT A362 Aerodynamics and Flight Performance (3)
   - AT A420 Air Transportation Systems (3)
   - AT A431 Aircraft Accident Investigation (3)
   - AT A490 Advanced Topics in Aviation (1-6)

3. A total of 120-126 credits is required for the Airway Science Option, of which 42 credits must be upper-division.

WELDING TECHNOLOGY

Gordon Hartlieb Building (GHB), Room 111, (907) 786-6478

The Welding Technology program prepares students for employment in welding and nondestructive inspection as entry-level technicians.

Training includes basic theory, research procedure development, welding applications, weld testing, and a variety of welding skills. Students are required to certify in three welding processes and one nondestructive testing process. Although there are no special admission requirements for the Associate of Applied Science degree program, students are encouraged to contact the Welding Technology department before enrolling. Students may enter the program in either fall or spring semester (fall preferred). In some classes, enrollment is limited due to equipment, laboratory, and safety requirements.

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 Anchorage campus welding program.

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.

FACULTY

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Curtis Sather, Professor, AFCES@uaa.alaska.edu
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. ENGLA212,
   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) 2
3. Students are required to certify in three welding processes and
   one nondestructive testing process.
4. A total of 63 credits is required for the degree.

FACULTY

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Eli van Ringelenstein, Term Instructor, AFEVR@uaa.alaska.edu
Ray Shepard, Term Assistant Professor, AFRRS@uaa.alaska.edu
SCHOOL OF ENGINEERING

The School of Engineering offers areas of study at the undergraduate level:

- A 4-year program leading to a Bachelor of Science in Civil Engineering;
- 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

www.engr.uaa.alaska.edu  
Engineering Building (ENGR), Room 201, (907) 786-1900

Civil Engineering deals with environmental control; bridges, buildings and harbor facilities; water resource development and waste disposal; dams, water power, irrigation works and drainage; air, water, highway and railway transportation; construction and management; surveying 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 in communications, 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 UA Civil engineering program is designed to produce graduates that:

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 UAACivil Engineering program will have:

1. An ability to apply knowledge of mathematics through differential equations, probability and statistics, calculus-based physics, and general chemistry;
2. An ability to apply knowledge in a minimum of four (4) recognized major civil engineering areas;
3. An ability to design and conduct experiments, as well as to analyze and interpret data in more than one of the recognized major civil engineering areas;
4. An ability to design a civil engineering system, component, or process to meet desired needs;
5. An ability to function on multi-disciplinary teams;
6. An ability to identify, formulate, and solve engineering problems;
7. An understanding of professional and ethical responsibility;
8. An ability to communicate effectively;
9. The broad education necessary to understand the impact of engineering solutions in a global and societal context;
10. A recognition of the need for, and an ability to engage in life-long learning;
11. A knowledge of contemporary issues in professional practice; and
12. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

**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.

- English: 3 years
- Algebra: 2 years
- Trigonometry: 1/2 year
- Physics: 1 year
- Chemistry: 1 year

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):
   - CE A334 Properties of Materials 3
   - CE A344 Water Resources Engineering 3
   - CE A402 Transportation Engineering 3
   - CE A422 Foundation Engineering 3
   - CE A431 Structural Analysis 4
   - CE A432 Steel Design 3
   - CE A433 Reinforced Concrete Design 3
   - CE A435 Soil Mechanics 3
   - CE A438 Design of Engineering Systems 3
   - CE A441 Sanitary Engineering 3
   - 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
   - ENGL A111 Methods of Written Communication 3
   - ENGL A211* Academic Writing About Literature 3
   - ES A103 Engineering Graphics 3
   - ES A111 Engineering Science 3
   - ES A201 Computer Techniques 3
   - ES A209 Engineering Statics 3
   - ES A210 Engineering Dynamics 3
   - ES A302 Engineering Data Analysis 3
   - ES A309 Elements of Electrical Engineering 3
   - ES A331 Mechanics of Materials 3
   - ES A341 Fluid Mechanics 4
   - ES A346 Basic Thermodynamics 3
   - ESM A450 Economic Analysis and Operations 3
   - GEO A166 Elements of Geomatic Measurements 3
   - MATH A200 Calculus I 4
   - MATH A201 Calculus II 4
   - MATH A202 Calculus III 4
   - MATH A302 Ordinary Differential Equations 3
   - PHYS A211 General Physics I 3
   - PHYS A211L General Physics I Lab 1
   - PHYS A212 General Physics II 3
   - PHYS A212L General Physics II Lab 1
   - BIOA105 Fundamentals of Biology I (4) 3
   - BIOA371 Principles of Ecology (4) 3
   - CHEM A450 Environmental Chemistry (3) 3
   - GEOA111 Physical Geology (4) 3
   - GEOA115 Environmental Geology (3) 3
   - PHYS A303 Modern Physics (3) 3

*Note: ENGL A211 is specified as required course in the Civil Engineering curriculum. As an alternative, students may take ENGL A212 or ENGL A213 to satisfy the UAAGeneral Education Requirements in Written Communications, however, this may only be done if the student’s combined total of credits in the areas of Social Sciences, Humanities and Fine Arts is equal to or greater than 16 semester credits. For most students, this requires adding an additional course.

2. A Natural Science elective (minimum 3 credits) must be taken in addition to the 7 credit Natural Sciences General Education Requirement GEOLA111 is recommended. However, with the consent of an academic advisor, students may choose from the following list of alternative courses:
   - BIOL A105 Fundamentals of Biology I (4) 3
   - BIOL A371 Principles of Ecology (4) 3
   - CHEM A450 Environmental Chemistry (3) 3
   - GEOA111 Physical Geology (4) 3
   - GEOA115 Environmental Geology (3) 3
   - PHYS A303 Modern Physics (3) 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.
   - Design Credits
     - CE A404 Highway Engineering (4) 2
     - CE A434 Timber Design (3) 3
     - CE A442 Environment System Design (3) 2
     - CE A636 Multi-Story Building Structural Design(3) 3
     - CE A675 Design of Ports and Harbors (3) 3
     - CE A681 Frozen Ground Engineering (3) 2
     - CE A684 Arctic Utility Distribution (3) 2
     - EQE A605 Chemical and Physical Water and Wastewater Treatment Processes (3) 1
     - EQE A606 Biological Treatment Processes (3) 1
     - ESM A401 Cost Estimating (3) 1
     - GEO A456 Geomatics and Civil Design (3) 2

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
   - CHEM A105L General Chemistry I Lab 1
   - ENGL A111 Methods of Written Communication 3
   - ES A103 Engineering Graphics 3
   - ES A111 Engineering Science 3
   - MATH A200 Calculus I 4

Spring Semester (17 credits):
   - CHEM A106 General Chemistry II 3
   - CHEM A106L General Chemistry II Lab 1
   - ES A201 Computer Techniques 3
   - GEO A166 Elements of Geomatic Measurements 3
   - MATH A201 Calculus II 4
   - COMM A111, A235, A237, or A241 3

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www.uaa.alaska.edu
### Second Year

#### Fall Semester (17 credits):
- ENGLA211 Academic Writing about Literature 3
- ES A209 Engineering Statics 3
- MATH A202 Calculus III 4
- PHYS A211 General Physics I 3
- PHYS A211L General Physics I Lab 1
- Social Sciences/Humanities/Fine Arts GER 3

#### Spring Semester (16 credits):
- ES A210 Engineering Dynamics 3
- ES A302 Engineering Data Analysis 3
- MATH A302 Ordinary Differential Equations 3
- PHYS A212 General Physics II 3
- PHYS A212L General Physics II Lab 1
- Social Sciences/Humanities/Fine Arts GER 3

### Third Year

#### Fall Semester (16 credits):
- CE A334 Properties of Materials 3
- ES 309 Elements of electrical Engineering 3
- ES A331 Mechanics of Materials 3
- ES A341 Fluid Mechanics 4
- Social Sciences/Humanities/Fine Arts GER 3

#### Spring Semester (16 credits):
- CE A344 Water Resources Engineering 3
- CE A431 Structural Analysis 4
- CE A435 Soil Mechanics 3
- ES A346 Basic Thermodynamics 3
- Social Sciences/Humanities/Fine Arts GER 3

### Fourth Year

#### Fall Semester (18 credits):
- CE A402 Transportation Engineering 3
- CE A432 Steel Design 3
- CE A441 Sanitary Engineering 3
- Natural Sciences Elective 3
- Technical Elective 3
- Social Sciences/Humanities/Fine Arts GER 3

#### Spring Semester (15 credits):
- CE A422 Foundation Engineering 3
- CE A453 Reinforced Concrete Design 3
- CE A438 Design of Engineering Systems 3
- ESM A450 Economic Analysis and Operations 3
- Technical Elective 3

### FACULTY

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### ELECTRICAL ENGINEERING

**www.engr.uaa.alaska.edu**

**Engineering Building (ENG), 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
- ENGLA111 Methods of Written Communication 3
- ENGLA211 Academic Writing About Literature 3
- or
- ENGLA213 Writing in the Social and Natural Sciences 3
- COMM A111 Fundamentals of Oral Communication 3
- or
- COMM A235 Small Group Communication 3
- or
- COMM A237 Interpersonal Communication 3
- or
- COMM A241 Public Speaking 3
- 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
  - 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 Lab 1
  - EE A102 Introduction to Electrical Engineering 3
  - ES A201 Computer Techniques 3
  - MATH A201 Calculus II 4
  - COMM A111, A235, A237 or A241 3

Second Year

- Fall Semester (18 credits)
  - EE A203 Fundamentals of Electrical Engineering I 4
  - ENGLA211 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
  - COMM A111 or A213 3
  - or
  - Social Science/Humanities/Fine Arts** 3

- Spring Semester (17 credits)
  - EE A204 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
  - Social Science/Humanities/Fine Arts** 3

** 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 UAAGeneral Education Requirements in these areas. Further, the selected courses should be approved by the student's advisor.

FACULTY

Robert Miller, Director, AFREM@uaa.alaska.edu
Tom Miller, Professor-E.E., AFTPM@uaa.alaska.edu
The Department of Geomatics offers two degrees: A 2-year Associate of Applied Science degree in Geomatics; and a 4-year Bachelor of Science degree in Geomatics. 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 will also find opportunities within the curriculum. 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 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 the 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 UA 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.

**ACCRREDITATION**

The Bachelor of Science degree program in Geomatics at UAA is accredited by the Related Accreditation Commission of the Accreditation Board for Engineering and Technology (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. A student who is unable to earn a grade of “C” or higher may repeat the course in order to earn a satisfactory grade.
**PREPARATION**

Students seeking the Associate of Applied Science degree in Geomatics should prepare for entrance into the program by completing the following high school courses:

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>Algebra II</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Composition (Skill level as demonstrated by ACT, SAT, or UAA placement test to qualify for enrollment in ENGLA111)</td>
</tr>
</tbody>
</table>

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 Bachelor of Science degree in Geomatics should prepare for entrance into the program by completing the following high school courses:

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>Algebra II, Trigonometry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science</td>
<td>Physics</td>
</tr>
<tr>
<td>English Composition</td>
<td>Skill level as demonstrated by ACT, SAT or UAA placement test to qualify for enrollment in ENGLA111</td>
</tr>
</tbody>
</table>

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.

**ASSOCIATE OF APPLIED SCIENCE, GEOMATICS**

**A. 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. Students must have satisfactorily completed a 3-credit course in a computer language or an introductory course in data processing or microcomputers.

**B. 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.

**C. MAJOR REQUIREMENTS**

1. Complete 4 credits in physics:
   - PHYS A123 Basic Physics I (3)
   - PHYS A123L Basic Physics I Laboratory (1)
   - PHYS A211 General Physics I (3)
   - PHYS A211L General Physics I Laboratory (1)

2. Complete one of the following:
   - CS A105 FORTRAN Programming (3)
   - CS A107 Pascal Programming (3)

3. Complete the following required courses:
   - ENGLA212 Technical Writing (3)
   - MATH A108 Trigonometry (3)
   - MATH A200 Calculus I (4)
   - GEO A137 Principles of Mapping (3)
   - GEO A155 Introduction to Geomatics (3)
   - GEO A157 Analytical and Digital Cartography (3)
   - GEO A158 Geomatics Computer Fundamentals (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)
   - GIS A268 Elements of Geographic Information Systems (GIS) (4)

4. A total of 61 credits is required for this degree.
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 (15 credits):
- ENGLA111 Methods of Written Communications 3
- GEO A137 Principles of Mapping 3
- GEO A155 Introduction to Geomatics 3
- GEO A158 Geomatics Computer Fundamentals 3
- MATH A108 Trigonometry 3

Spring Semester (15 credits):
- GEO A157 Analytical and Digital Cartography 3
- GEO A166 Elementary of Geomatics Measurements 4
- GEO A167 Remote Sensing & Image Analysis 4
- MATH A200 Calculus I 4

Second Year

Fall Semester (17 credits):
- GEO A256 Municipal and Civil Geomatics 4
- GEO A257 Elements of Photogrammetry 3
- PHYS A123/L Basic Physics I (3)*
  or
- PHYS A211 General Physics I (3)*
- COMM A111 Fundamentals of Oral Communication (3)
  or
- COMM A235 Small Group Communication (3)
  or
- COMM A237 Interpersonal Communication (3)
  or
- COMM A241 Public Speaking (3)
- One course selected from:
  - CS A105 FORTRAN Programming (3)
  - CS A107 Pascal Programming (3)

*Note: PHYS A211 requires high school physics or PHYS A123 and Math A200 as prerequisites. Math A201 is required as a corequisite.

Spring Semester (14 credits):
- ENGLA212 Technical Writing 3
- GEO A248 Digital Terrain Cartography 3
- GEO A267 Boundary Law I 4
- GIS A268 Elements of Geographic Information Systems (GIS) 4

BACHELOR OF SCIENCE, GEOMATICS

A. 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. Students must satisfactorily complete of a 3-credit course in a computer language or an introductory course in data processing or microcomputers.

B. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for baccalaureate degrees at the beginning of this chapter.

C. 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.

D. MAJOR REQUIREMENTS

1. Complete 8 credits in physics from one of the following sequences: 8
   - PHYS A123 Basic Physics I (3)
   - PHYS A123L Basic Physics I Laboratory (1)
   - PHYS A124 Basic Physics II (3)
   - PHYS A124L Basic Physics II Laboratory (1)
   or
   - PHYS A211 General Physics I (3)
   - PHYS A211L General Physics I Laboratory (1)
   - PHYS A212 General Physics II (3)
   - PHYS A212L General Physics II Laboratory (1)
   These credits must be in addition to the 7 Natural Sciences credits taken to complete the General Education Requirement.

2. Complete one of the following: 3
   - CS A105 FORTRAN Programming (3)
   - CS A107 Pascal Programming (3)

3. Complete the following: 3
   - CS A207 C Programming
   - ENGLA212 Technical Writing

4. Complete all of the following: 12
   - MATH A200 Calculus I
   - MATH A201 Calculus II
   - MATH A202 Calculus III

5. Complete one of the following: 3
   - MATH A302 Ordinary Differential Equations (3)
   - MATH A314 Linear Algebra (3)
   - AS A307 Probability and Statistics (3)

6. Complete all of the following: 12
   - GEO A137 Principles of Mapping
   - GEO A155 Introduction to Geomatics
   - GEO A157 Analytical and Digital Cartography
   - 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
   - GEO A355 Land Development and Design
   - GEO A359 Geodesy and Map Projections
   - GEO A365 Geomatic Adjustment and Analysis
   - GEO A457 Boundary Law II
   - GEO A460 Geomatics Design Project
   - GEO A466 Geopositioning
   - GIS A268 Elements of Geographic Information Systems (GIS)
   - GIS A366 Spatial Information Analysis and Modeling

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 and Legal Interpretations (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 A369 Land Information Systems and Legal Interpretation (3)
   - GIS A370 Remote Sensing and GIS for Natural Resource (3)
   - GIS A470 GIS for Facility Management (3)

### 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 A155 Introduction to Geomatics 3
- GEO A157 Analysis and Digital Cartography 3
- MATH A200 Calculus I 4
- ENGLA111 Methods of Written Communication 3

**Spring Semester (18 credits)**
- GEO A157 Analytical and Digital Cartography 3
- GEO A166 Elements of Geomatics Measurements 4
- GEO A167 Remote Sensing and Image Analysis 4
- MATH A201 Calculus II 4

**Second Year**
**Fall Semester (18 credits)**
- GEO A248 Digital Terrain Cartography 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)**
- CS A207 C Programming 3
- GEO A267 Boundary Law I 4
- GIS A268 Elements of Geographic Info. Systems (GIS) 4
- ENGLA212 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 (18 credits)**
- GEO A355 Land Development and Design 3
- GEO A359 Geodesy and Map Projections 3
- GEO/GIS Emphasis course selected from:
- GEO A358 Programming for Digital Cartography (3)
- GIS A366 Spatial Information Analysis and Modeling 3

A three (3) credit course selected from:
- MATH A314 Linear Algebra (3)
- MATH A302 Ordinary Differential Equations (3)
- AS A307 Probability and Statistics (3)
- Elective Natural Science GER 3
- Elective Fine Arts GER 3

**Spring Semester (14 credits)**
- GEO A365 Geomatic Adjustment and Analysis 4
- Natural Science Elective (with Lab) GER 4
- Select 3 credits from the GEO/GIS 3
- GIS A458 Design & Management of Spatial Data (3)
- Emphasis Elective course (3)
Fourth Year

Fall Semester (16 credits)
- GEO A457 Boundary Principles & Evidence 4
- GEO A460 Geomatics Design Project 3
Select 3 credits from the GEO or the GIS
- Emphasis Elective courses 3
- Humanities Elective GER 3
- Social Science Elective GER 3

Spring Semester (12 credits)
- GEO A466 Geopositioning 3
Select 3 credits from the GEO or the GIS
- Emphasis Elective courses 3
- Humanities Elective GER 3
- Social Science Elective GER 3

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

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
- ENGLA111 Methods of Written Communication 3
- ENGLA211 Academic Writing About Literature (3) 3
  or
- ENGLA213 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
- ENGLA111 Methods of Written Communication 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):
- ENGLA211 or A213 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.

FACULTY

Robert Miller, Director, AFREM@uaa.alaska.edu
CHAPTER 10

GRADUATE ADMISSION AND DEGREE PROGRAMS

Graduate School
Graduate General University Requirements
Graduate Programs by Schools and Colleges
**GRADUATE ADMISSION AND DEGREE PROGRAMS**

**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 UAACatalog, 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 admission 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 UAAGraduate 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 UAAs 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 grad student 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 towards 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 towards 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.
Chapters 10  Page 222 University of Alaska Anchorage 2001-2002 Course Catalog

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
UAAdoes not confer doctor’s degrees at this time; however, several cooperative programs exist with other universities, allowing some course work to be completed at UAAand 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 UAAGraduate 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 ensure that satisfactory progress is made toward completing degree requirements. After demonstrating an ability to succeed in graduate study, as defined by the committee and advisor, the student may apply for advancement to candidacy status (see Continuous Registration and Advancement to Candidacy).
EXCHANGE PROGRAMS

BIMEDICAL

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

UA A 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 seminars, internships, and independent research. The MA degree requires a research-based thesis. Within the MA program, the Applied Anthropology emphasis offers specialized tracks designed to train students in applied aspects of anthropology that may be employment related. The Applied Cultural Anthropology track identifies and assists in resolving current social issues in their cultural dimensions. The Applied Biological Anthropology track encompasses forensic anthropology and other practical applications of physical anthropology. The Cultural Resource Management track involves the inventory, assessment, and conservation of archaeological sites and remains as a part of a larger management framework.

MASTER OF ARTS, ANTHROPOLOGY

ADMISSIONS REQUIREMENTS

See graduate admission requirements. Deadline for application: March 15 for fall admission, November 15 for spring admission.

1. Although graduating college or university seniors are invited to apply, no student may be formally admitted to graduate study until the baccalaureate degree has been awarded from an accredited college or university.
2. It is strongly recommended that the students have completed a minimum of 18 credits of undergraduate course work in anthropology, with a GPA of 3.0. An undergraduate major in anthropology is preferred.
3. Students must have at least a 2.5 overall undergraduate GPA.
4. Completed UAA graduate application form.
5. Official transcripts of college-level work from each institution attended.
6. Graduate Record Examination results (General Test Scores).
7. Three letters of recommendation from professors or others particularly qualified to attest to the applicant’s qualifications for graduate study.
8. A letter of intent, including a brief statement of applicant’s research and career goals and reasons for pursuing graduate study in anthropology at UAA.
9. Examples of papers or research proposals indicative of the applicant’s potential for graduate study (optional).
10. Applicants may be requested to complete a personal interview. Acceptance is determined by the Anthropology Graduate Admissions Committee and is based on:
   1. prospective student's overall credentials;
   2. availability of appropriate faculty for student research interests.
   Failure to meet any of the above criteria may result in conditional admission to the MA program. Conditional admission may be conferred on students if important deficiencies are identified in their undergraduate training. Such students are notified of those deficiencies, and required to complete them at UAA, normally within a period of one year, before admission to regular status in the program is conferred. In some cases, deficiencies can be made up at another academic institution. Conditional students cannot receive graduate teaching or research assistantships.

   Prospective graduate students are strongly advised to contact all potential faculty for research/advisor arrangements at an early stage of their admission process.

ACADEMIC PROGRESS

To maintain continuous progress toward the degree, a student in the MA program is expected to complete each semester a minimum of 9 credits of course work applicable to the program, with grades of "A" or "B," for full-time students, or 3 credits per semester for part-time students. Failure to comply may result in the student being removed from the program. In addition, students must advance to candidacy within 5 years, unless on an approved leave of absence.

CANDIDACY REQUIREMENTS

See 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 UAAcatalog.
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 anthropology may be taken as electives if approved by the student's advisor.
5. Submit a written MAThesis to the graduate committee, conforming to specifications of the UAAConsortium 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 or 600 level elective by advisement 6-11
4. A total of 30 credits is required for the degree.

FACULTY

Kerry Feldman, Professor, AFKDF@uaa.alaska.edu
Christine Hanson, Associate Professor, AFCLH@uaa.alaska.edu
Steve Langdon, Professor, AFSL@uaa.alaska.edu
Douglas Veltre, Professor, AFDWV@uaa.alaska.edu
William Workman, Professor, Chair, AFWBW@uaa.alaska.edu
David Yesner, Professor, AFDRY@uaa.alaska.edu

BIOLOGICAL SCIENCES

www.uaa.alaska.edu/biohome/biology.html
The WWAMI/Biomedical program may be found at
www.uaa.alaska.edu/wwami/
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 should 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 UAAGraduate 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
   - BIOLA692 Graduate Seminar (1) 2
   - BIOLA698/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.

**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**

Lillian Alessa, Assistant Professor, AFLA@uua.alaska.edu
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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 PSYA260 or AS A252, PSYA261, PSYA345, and PSYA473, respectively) is necessary. Students may be admitted to the program at UAAwithout 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 (PSYA665B).

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 UAAis 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 PSYA665 Psychotherapy Practicum
   b. registering for PSYA670 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:

- PSYA611 Ethics and Professional Practice
- PSYA623 Psychotherapy Skills
- PSYA633 Psychological Assessment

One course from the Specialty Track requirements list.

Candidacy status is a prerequisite to the following experiences:

- PSYA670 Psychotherapy Internship
- Participation in Comprehensive Exams
- Receipt of academic credit for Thesis (PSYA699A, 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, PSYA685 Quantitative Methods in Psychology. Students who take the proficiency exam but do not pass will be required to take PSYA685.

PROGRAM REQUIREMENTS

1. Required core courses for all four tracks (28 credits):
   - PSYA611 Ethics and Professional Practice 3
   - PSYA622 Psychopathology 3
   - PSYA623 Psychotherapy Skills 3
   - PSYA633 Psychological Assessment 3
   - PSYA639 Advanced Research Methods 3
   - PSYA654 Cultural Issues in Psychotherapy 3
   - PSYA665A Psychotherapy Practicum: Psychological Assessment 1
   - PSYA665B Psychotherapy Practicum: Psychological Services Center 3
   - PSYA670 Psychotherapy Internship (3-6) 6

Specialty Track Courses

A. Research Track
   Required (22 credits):
   - PSYA698 Individual Research (1-4) 3
   - PSYA699A Thesis: Research (1-6) 6
   - PSYA685 Quantitative Methods in Psychology 3
   - Select two of the following three: 6
   - PSYA624 Group Therapy (3)
   - PSYA626 Family Therapy (3)
   - PSYA645 Advanced Psychotherapy Skills (3)
   Electives 4

B. Clinical Track
   Required (22 credits):
   - PSYA624 Group Therapy 3
   - PSYA626 Family Therapy 3
   - PSYA645 Advanced Psychotherapy Skills 3
   - PSYA689 Advanced Psychological Assessment 3
   - PSYA699C Thesis Creative Component (1-3) 3
   - Select one of the following three: 3
   - PSYA631 Cognitive Behavior Therapy (3)
   - PSYA635 Advanced Psychodynamic Theory and Therapy (3)
   - PSYA638 Child-Clinical Psychology (3)
   Electives* 4

*Note: PSY A612 is recommended for licensure.

C. Public Service Track
   Required (22 credits):
   - PSYA624 Group Therapy 3
   - PSYA631 Cognitive Behavior Therapy 3
   - PSYA637 Organizational Environments 3
   - PSYA699B Thesis: Public Service (1-3) 3
   - Select two of the following four: 6
   - PSYA626 Family Therapy (3)
   - PSYA638 Child-Clinical Psychology (3)
   - PSYA641 Applications of Community Psychology (3)
   - PSYA645 Advanced Psychotherapy Skills (3)
   Electives 4

D. Addictive Behaviors Track
   Required (22 credits):
   - PSYA643 AIDS and Substance Abuse Counseling 3
   - PSYA680 Advanced Issues in Addiction Studies (1-3) 3
   - PSYA682 Clinical Interventions for Addictive Behaviors 3
   - PSYA688 Assessment and Treatment Planning for Addictive Behaviors 3
   - PSYA699C Thesis Creative Component (1-3) 3
   - Select one of the following three: 3
   - PSYA626 Family Therapy (3)
   - PSYA624 Group Therapy (3)
   - PSYA641 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
- PSYA623 Psychotherapy Skills 3
- PSYA611 Ethics and Professional Practice 3
- PSYA622 Psychopathology 3
- PSYA626 Family Therapy 3

#### Spring
- PSYA633 Psychological Assessment 3
- PSYA654 Cultural Issues in Psychotherapy 3
- PSYA639 Advanced Research Methods 3
- PSYA645 Advanced Psychotherapy Skills 3

Advance to Candidacy

#### Summer
- PSYA699C Thesis: Creative Component 1

#### Fall
- PSYA665A Psychotherapy Practicum: Psychological Assessment 1
- PSYA689 Advanced Psychological Assessment 3
- PSYA699C Thesis: Creative Component 2

#### Spring
- PSYA624 Group Therapy 3
- PSYA631 Cognitive Behavior Therapy 3
- PSYA635 Advanced Psychodynamic Theory and Therapy 3
- PSYA670 Psychotherapy Internship 3-6
- Elective (e.g., A612) 3

#### Summer
- PSYA670 Psychotherapy Internship 3-6

### Public Service Track

#### Fall
- PSYA623 Psychotherapy Skills 3
- PSYA611 Ethics and Professional Practice 3
- PSYA622 Psychopathology 3
- PSYA638 Child-Clinical Psychology 3
- PSYA626 Family Therapy 3

#### Spring
- PSYA633 Psychological Assessment 3
- PSYA654 Cultural Issues in Psychotherapy 3
- PSYA639 Advanced Research Methods 3
- PSYA624 Group Therapy 3

Advance to Candidacy

#### Fall
- PSYA641 Application of Community Psychology 3
- PSYA699B Thesis: Public Service 1-3
- Elective
- PSYA665B Psychotherapy Practicum: Psychological Services Center 3
- PSYA665A Psychotherapy Practicum: Psychological Assessment 1

#### Spring
- PSYA670 Psychotherapy Internship 3-6
- PSYA631 Cognitive Behavior Therapy 3
- PSYA637 Organizational Environments 3
- Elective
- Finish Thesis

#### Summer
- PSYA670 Psychotherapy Internship 3-6

### Research Track

#### Fall Conditional Entry
- Prerequisite
- Prerequisite
- PSYA623 Psychotherapy Skills 3

#### Spring
- PSYA633 Psychological Assessment 3
- PSYA654 Cultural Issues in Psychotherapy 3
- PSYA639 Advanced Research Methods 3
- Prerequisite

#### Fall
- PSYA698 Individual Research 1-4
- PSYA611 Ethics and Professional Practice 3
- PSYA622 Psychopathology 3
- PSYA685/685L Quantitative Methods in Psychology/Lab 4
- Elective
- Petition for Full Admission

#### Spring
- PSYA645 Advanced Psychotherapy Skills 3
- PSYA665A Psychotherapy Practicum: Psychological Assessment 1
- PSYA665B Psychotherapy Practicum: Psychological Services Center 3
- PSYA699A Thesis: Research 3
- Advance to Candidacy

#### Summer
- PSYA699A Thesis: Research 3
- PSYA670 Psychotherapy Internship 3

#### Fall
- PSYA626 Family Therapy 3
- PSYA670 Psychotherapy Internship 3
- Elective

### FACULTY

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COMPUTER SCIENCE

www.math.uaa.alaska.edu
College of Arts & Sciences Building (CAS), Room 154, (907) 786-1742/4824

MASTER OF SCIENCE, COMPUTER SCIENCE

The UAA Department of Mathematical Sciences offers the opportunity to pursue a Master’s Degree in computer science while residing in the Anchorage area. The degree is available through a cooperative program with the University of Alaska, Fairbanks and the degree is awarded by UAF. The program is designed to accommodate computer science professionals working in the Anchorage area; courses are offered late afternoon and evening. For more information, contact the Department of Mathematical Sciences at UAA or visit our web site at saturn.math.uaa.alaska.edu/mathsci.

FACULTY

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Kenrick Mock, Assistant Professor, AFKJM@uaa.alaska.edu
Patrick O’Leary, Assistant Professor
Kirk Scott, Assistant Professor, AFKAS@uaa.alaska.edu

CREATIVE WRITING AND LITERARY ARTS

aycwla@uaa.alaska.edu
www.uaa.alaska.edu/cwla/
College of Arts and Sciences, Room 378, (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 CWLAprefix 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:
   - CWLAA652 Graduate Writers’ Workshop: Poetry (3)
   - CWLAA662 Graduate Writers’ Workshop: Fiction (3)
   - CWLAA672 Graduate Writers’ Workshop: Prose Nonfiction (3)
   - CWLAA682 Graduate Writers’ Workshop: Drama for Stage and Screen (3)
2. Complete 6-12 credits of CWLAA690 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

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Sherry Simpson, Professor
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 some 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):
   - ENGLA601 Introduction to Graduate Studies in English 3
   - ENGLA602 Contemporary Critical Theory 3

2. Complete 9 credits in period studies from the following: 9
   - ENGLA607 Studies in American Literature (3)
   - ENGLA615 Studies in Medieval Literature (3)
   - ENGLA620 Studies in Renaissance Literature (3)
   - ENGLA625 Studies in Neo classical Literature (3)
   - ENGLA630 Studies in the Literature of Romanticism (3)
   - ENGLA640 Studies in the Victorian Period (3)
   - ENGLA642 Studies in the Modernist Period (3)
   - ENGLA643 Studies in Contemporary Literature (3)

3. Complete 6 credits in genre studies from the following: 6
   - ENGLA636 Studies in Modern Criticism (3)
   - ENGLA638 Studies in Poetry (3)
   - ENGLA661 Studies in Fiction (3)
   - ENGLA671 Study in Non-Fiction Prose (3)
   - ENGLA681 Studies in Drama (3)

4. Complete 3 credits in specialized studies from the following: 3
   - ENGLA604 Studies in Women’s Literature (3)
   - ENGLA606 Studies in the Development of the English Language (3)
   - ENGLA637 Studies in Style and Stylistics (3)
   - ENGLA676 Studies in Texts and Cultures (3)

5. Complete at least 6 credits of ENGLA699 Thesis. Completion of the MA thesis in English includes a thesis defense. 6

6. English electives (graduate or 400-level undergraduate) 6

7. A total of 36 credits is required for the degree.

RECOMMENDED COURSE SEQUENCE

Main English (Literature Emphasis)

First Year

Fall Semester
   - ENGLA601 Introduction to Graduate Studies in English 3
   - ENGLA687 (required for Teaching Assistants) 3
   - ENGLA699 Thesis or ENGLA699 Elective (often ENGLA698 Individual Research) 3
   - The student should take the English Qualifying Exam this semester.

Spring Semester
   - ENGLA602 Contemporary Critical Theory 3
   - ENGLA699 Thesis or ENGLA699 Elective (often ENGLA698 Individual Research) 3

Second Year

Fall Semester
   - ENGLA602 Contemporary Critical Theory 3
   - ENGLA699 Thesis or ENGLA699 Elective (often ENGLA698 Individual Research) 3
   - The student should complete the Admission to Candidacy form this semester.

Spring Semester
   - ENGLA602 Contemporary Critical Theory 3
   - ENGLA699 Thesis or ENGLA699 Elective (often ENGLA698 Individual Research) 3

RHETORIC EMPHASIS

1. Complete the following before advancing to candidacy (6 credits):
   - ENGLA601 Introduction to Graduate Studies in English 3
   - ENGLA602 Contemporary Critical Theory 3

2. Complete 12 credits in Composition and Rhetoric (12 credits):
   - ENGLA637 Studies in Style and Stylistics 3
   - ENGLA680 Studies in the History of Rhetoric 3
   - ENGLA685 Studies in Rhetorical Strategy 3
   - ENGLA687 Composition Theory and Practice 3

3. Complete 9 credits in specialized studies from the following: 9
   - ENGLA604 Studies in Women’s Literature (3)
   - ENGLA606 Studies in the Development of the English Language (3)
   - ENGLA636 Studies in Modern Criticism (3)
   - ENGLA671 Studies in Non-Fiction Prose (3)
   - ENGLA676 Studies in Texts and Cultures (3)

4. Complete at least 6 credits of ENGLA699 Thesis. Completion of the MA thesis in English includes a thesis defense. 6

5. Complete one English elective at the graduate level 3

6. A total of 36 credits is required for the degree.

Note: Most graduate courses are offered on a two-year rotation. Exceptions are ENGLA601 and ENGLA687 (offered every fall semester) and ENGLA602 (offered every spring). A schedule of the planned rotation of graduate courses is available from the English office.

FACULTY

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Kate Sandberg, Professor, AFKES@uaa.alaska.edu
Alice Sears, Professor, AFALS@uaa.alaska.edu
Jeff White, Assistant Professor, AFJCW@uaa.alaska.edu
Toby Widdicombe, Associate Professor, AFRTW@uaa.alaska.edu
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 ≥ 1050

   **OR**

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 is currently 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 3
- 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 insure 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 which is required of all students in General Management 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
- BAA631 Organizational Behavior and Human Resource Management 3
- BAA633 Problem Formulation and Decision Analysis 3
- BAA634 Creating the Successful Organization 3
- BAA635 Current Marketing Issues Seminar 3
- BAA636 Financial Decision Making 3
- BAA655 Strategic Management Seminar 3
- BAA656 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. BAA656, 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 the General Management Concentration 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 material leadership. Graduates are grounded in management theory, logistics integration, modern information systems, knowledge management, and ethical standards effecting the efficient design and implementation of global supply chain system.

1. Complete the following requirements (30) credits:

- BAA661 Supply Chain Strategic Planning 6
- BAA662 Supply Chain Knowledge Management 6
- BAA663 Supply Chain Marketing Strategies 6
- BAA664 Supply Chain Management Leadership 6
- BAA665 Supply Chain Measurement* 6

Note: *All students must complete an applied research project as part of BA 665.

Students must participate as part of a cohort group, and are expected to take the classes in the order listed 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 for eight hours each day on Saturday and Sunday or evenings. Participants in the military or other participants on overseas work assignment may be permitted to substitute some on-site attendance requirements for additional on-line work. On the first Saturday meeting of the cohort group, participants receive an introduction to the program, training on the software to be used in the program, materials and project assignments. All assigned projects are applied projects associated with the participants’ work.

This degree is a stand-alone program that is not subsidized by the State and therefore, normal tuition fees do not apply. All instructional cost, books, materials, and fees are quoted separately from the university tuition structure. Contact the College of Business and Public Policy for total program costs and preapplication information.

Faculty

Angappa (Guna) Gunasekaran, Associate Professor
Frank Jeffries, Assistant Professor, AFFLJ@uaa.alaska.edu
Philip Price, Assistant Professor
Darren J. Prokop, Assistant Professor
The Master of Public Administration (MPA) degree provides students with knowledge and skills needed for professional careers in public service. MPA students learn new techniques and add to their expertise in organizational and program management, policy analysis, and related areas with emphasis on policy and administrative issues in the North. Students specialize in one of the following emphasis areas: Public Management, Policy Analysis, Health Administration, or Criminal Justice.

The Public Management emphasis is designed for those working for or planning to work for executive agencies of local, state, and federal governments, for private, non-profit organizations, and in government relations units of private corporations. It provides basic tools of public management, understanding of the structure and processes of public organizations, and the history and context of the field of public administration.

The Policy Analysis emphasis is intended to provide the professional staffs of executive and legislative departments of local, state, and federal governments with the capability to analyze the effects of a broad range of actual or hypothetical government policies. It emphasizes the application of economic analysis and other quantitative and qualitative methods to Alaska and national policy issues.

The Health Administration emphasis prepares students to function as health administrators in state, local, or federal agencies, non-profit organizations, and private companies that do health-related work. Students develop knowledge and skills necessary for effective public management in the health care area: planning, decision-making, and managing people, money, and programs.

The Criminal Justice Emphasis will provide graduates with the theoretical basis for management careers in the field of criminal justice. Students will develop knowledge and skills necessary for effective public management: planning and decision making, managing people, money, and programs. These skills will be applicable in a wide spectrum of employment areas in law enforcement and the criminal justice system, and will also prepare graduates seeking to earn a terminal degree in justice administration.

Upon approval of the student’s advisor and dean, and by completing additional course work and meeting other degree requirements, an MPA student may receive both the MPA and the Master of Business Administration (MBA) degrees.

**Master of Public Administration**

**Admission Requirements**

See the beginning of this chapter for 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
   - Plus two 600-level electives 6

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: 9
     - NS A626 Principles of Epidemiology (3)
     - NS A638 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

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

Steven Aufrecht, Professor/Chair, AFSEA@uaa.alaska.edu
Greg Protasel, Associate Professor, AFGJP@uaa.alaska.edu
The School of Education offers both master's programs and certification programs at the graduate level. Students admitted to master's programs work with a three-member committee comprised of full-time faculty from the major and related areas. The committee develops an individual graduate program for each student based upon transfer credits, program requirements and elective courses. The program may or may not include certification requirements. The approved program becomes the contract between the student and the University and if it includes a degree or endorsement program, it must be earned within a consecutive seven-year period prior to graduation.

Practica, internships, student teaching 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. Placement 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 will make every effort to find appropriate field placements for students, admittance to a degree/certificate/endorsement program does not guarantee acceptance by cooperating school districts.

Within the curriculum of the M.Ed. program are several options, each with its own set of specific requirements. Each is designed to provide the student with advanced preparation in professional education. Some also lead to endorsement for education certification in the State of Alaska. M.Ed. and endorsements options are:

**Master of Arts in Teaching**

- Master Teacher with Specialty Options
  - Middle School Education
  - Curriculum and Instruction
  - Early Childhood
  - Educational Technology
  - Other as approved by advisor (Students may concentrate their studies in such areas as, elementary, secondary, literacy, reading specialist, etc.)

- Counseling and Guidance

- Educational Leadership
  - K-12 Principal
  - Superintendent

**Special Education**

- General Special Education
- Early Childhood Special Education

**E. Adult Education**

- 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.

**Graduate Certification and Endorsement Programs**

The School of Education recommends students for endorsement and/or certification to the State of Alaska Department of Education upon successful completion of graduate programs in Master Teacher (Reading Option, Middle School Specialty Option); Counseling and Guidance; Educational Leadership (Principal and Superintendent); Special Education (General Special Education and Early Childhood Special Education). Students admitted only to a graduate certification program are assigned to a faculty member who serves as an academic advisor. Students must meet all the course requirements as approved by the State of Alaska Department of Education.

**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 State of Alaska issues certificates/endorsements as a result of successful program completion as attested by the department program chair and the dean.

**Certification and Endorsement Requirements**

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. The Special Education (General) Endorsement Program requires a grade of “B” or better to meet endorsement requirements.
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 Aptitude 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 program must be approved before completion of more than nine credits of course work.

NOTE: Eligibility requirements for some financial aid opportunities include admission to a specific graduate program.

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 their 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 their graduate committee.
6. Pass a comprehensive written examination on the education “core” studies and the area of specialization. An oral examination may also be required by the student’s committee.

Cautionary Note: Graduate courses completed prior to being admitted as a graduate student will not necessarily be applicable toward a specific graduate degree program. Since recency of credits is of concern to the candidate’s committee when developing the graduate program, course work must be completed within a consecutive seven-year period prior to graduation in order to fulfill the requirements of the degree.
PROGRAM REQUIREMENTS (M.Ed.)
Complete one of the following courses of study:

A. MASTER TEACHER WITH SPECIALTY OPTIONS

Programs can be planned in such areas as:

- Middle School Education
- 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

2. Curriculum and Instruction

   Students selecting the Middle School Education 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 and 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)

   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

   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

   A total of 36 credits is required for the degree without endorsement.

3b. Early Childhood (with endorsement):

   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

   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

   A total of 39 credits is required for the degree with endorsement.

A total of 42 credits is required for the degree with endorsement.

4a. Educational Technology(without endorsement)

   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

   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

   A total of 36 credits is required for the degree without endorsement.

4b. Educational Technology (with endorsement)

   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

   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

   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 or adults in schools and agencies.

1. Core (27-30 credits):
   - ED A612 Community Relations 3
   - ED A627 Educational Research 3
   - ED A636 Innovations in Teaching and Learning 3
   - COUN A610 Foundations in Counseling 3
   - COUN A614 Counseling Diverse Populations 3
   - COUN A616 Counseling Theories 3
   - COUN A623 Counseling Skills 3
   - COUN A624 Group Counseling 3
   - COUN A632 Career Development 3
   - COUN A633 High Risk Issues for Youth* 3

*Note: This course is not required for the Adult Counseling or the Vocational Education Options.

2. Choose one of six options:
   - Options A, B, and C may lead to an endorsement in Counseling and Guidance for an Alaska Type A certificate. Students who already possess a Master’s degree may request waiver of the core education courses.
   - An Alaska Type C Certificate-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 endorsement or certificate will need appropriate courses in education of culturally different youth and Alaskan History.

   a. Elementary 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 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-12 School Counseling (15 credits):
      - COUN A611 Roles and Responsibilities of the Elementary Counselor 3
      - COUN A615 Roles and Responsibilities of a Secondary School Counselor 3
      - COUN A634 Counseling Practicum I (Elementary Level) 3
      - COUN A636 Counseling Practicum II (Middle level or High School) 3
      - Electives by advisement 3

   Non-Certificated Options

   d. General Counseling (12 credits):
      - COUN A634 Counseling Practicum I (Agency) 3
      - COUN A636 Counseling Practicum II (Agency) 3
      - Electives by advisement 6

   e. Adult Counseling (15 credits):
      - EDAE A645 Teaching of Adults 3
      - EDAE A655 The Adult Learner 3
      - COUN A634 Counseling Practicum I (Agency) 3
      - COUN A636 Counseling Practicum II (Agency) 3
      - Electives by advisement 3

3. A total of 42-45 credits, is required for the degree.

C. EDUCATIONAL LEADERSHIP

The UAA Educational Leadership program has a statewide mission.

Program 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.

a. Masters of Education/Principal Type B Certificate Program

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):
   - EDLA637 Educational Leadership and Organizational Behavior 3
   - EDLA638 Instructional and Curricular Leadership 3
   - EDLA639 Politics of Education 3
   - EDLA640 Law and Ethics in Education 3
   - EDLA641 Principal Internship (3-6) 6
   - EDLA642 Principal Seminar I 3
   - EDLA643 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 State Department of Education.

b. Principal Type B Certificate

Program Requirements
1. See Program Requirements above.
2. Students must hold a master’s degree.
3. Required courses (24 credits):
   - EDLA637 Educational Leadership and Organizational Behavior 3
   - EDLA638 Instructional and Curricular Leadership 3
   - EDLA639 Politics of Education 3
   - EDLA640 Law and Ethics in Education 3
   - EDLA641 Principal Internship (3-6) 6
   - EDLA642 Principal Seminar I 3
   - EDLA643 Principal Seminar II 3

4. A total of 24 credits is required to apply for an institutional recommendation for a Type B certificate from the Alaska State Department of Education.
c. Superintendent’s Endorsement -
   Students wanting a superintendent’s endorsement must complete the above or a comparable principal preparation program, possess a master’s degree, and meet all preserve Alaska State Department of Education requirements for endorsement. In addition, they must take the following or verify comparable course work:
   - EDLA671 Superintendent Stewardship and Systemic Change 3
   - EDLA672 Student Performance: Academic and Developmental 3
   - EDLA673 Human Resource Management and Labor Relations 3
   - EDLA674 Public School Finance and Facilities 3
   - EDLA675 Superintendent Internship 6
   - EDLA676 Superintendent Seminar I 3
   - EDLA677 Superintendent Seminar II 3

   A total of 24 credits is required to apply for an institutional recommendation for the superintendent endorsement.

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 related 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
   or
   - EDSE A699 Thesis (1-6) 18

3. Documentation of computer technology skills or completion of ED A320 or ED A626 or other computer technology course.

4. A total of 36 credits is required for the degree.

   Note: ED A320 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 Early Childhood Special Education 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 only a Master of Education degree.

b. Special Education Endorsement

   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.

   Note: ED A320 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 Early Childhood Special Education 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 only a Master of Education degree.

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. Required core courses (12 credits):
   - ED A627 Education Research 3
   - EDAE A645 The Teaching of Adults 3
   - EDAE A655 The Adult Learner 3
   - EDAE A665 History and Philosophy of Adult Education 3

2. Complete one of four options:

   A. Curriculum and Instruction

   - EDAE A678 Curriculum and Program Planning in Adult Education 3
   - EDAE A679 Methods and Materials in Adult Education 3
   - 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) 6-11

   Electives by advisement
### B. Human Resource Development and Leadership

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<tr>
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<tr>
<td>EDAE A650</td>
<td>Principles of Human Resource Development</td>
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<tr>
<td>EDAE A657</td>
<td>Leadership (3)</td>
<td>3</td>
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<td>EDAE A658</td>
<td>Organization and Administration of Adult Education (3)</td>
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<td>EDAE A691</td>
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<tr>
<td>EDAE A695</td>
<td>Advanced Practicum in Adult Education (1-6)</td>
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<td>EDAE A698</td>
<td>Individual Research (1-3)</td>
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<tr>
<td>EDAE A699</td>
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### C. Counseling and Guidance

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<tbody>
<tr>
<td>COUN A616</td>
<td>Counseling Theories</td>
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<tr>
<td>COUN A623</td>
<td>Counseling Skills</td>
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<tr>
<td>EDAE A691</td>
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<td>EDAE A695</td>
<td>Advanced Practicum in Adult Education (1-6)</td>
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<td>EDAE A698</td>
<td>Individual Research (3)</td>
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<td>EDAE A699</td>
<td>Thesis (3)</td>
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### D. Distance Learning and Technology

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<td>ED A629</td>
<td>Multimedia Tools for Learning (3)</td>
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<tr>
<td>ED A626</td>
<td>Technology in Teaching and Learning (3)</td>
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<td>EDAE A667</td>
<td>Distance Learning and Adult Education</td>
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<td>EDAE A691</td>
<td>Professional Seminar</td>
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<td>EDAE A695</td>
<td>Advanced Practicum in Adult Education (1-6)</td>
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<tr>
<td>EDAE A698</td>
<td>Individual Research (1-3)</td>
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<td>EDAE A699</td>
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<td>Electives by advisement</td>
<td>6-11</td>
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3. In lieu of a comprehensive examination, M.Ed. candidates in Adult Education prepare a portfolio throughout the process to verify their knowledge and skill in adult education excellencies specified in their program. At program conclusion candidates will present their portfolios to their committee members.

4. A total of 36 credits is required for the degree.

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### Certification Only - Grades 7-12

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 applicants who have met the following requirements will compete for spaces in the Secondary Education Program bases 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):
   - ED A622 Philosophy of Education 3
   - ED A626 Technology in Teaching and Learning 3
   - ED A681* Neurological Foundations: Development and Learning (3) 3
   - ED A654 Brain Theories: Development and Learning (3)
   - ED A682* Curriculum Development Processes (3) 3
   - ED A651 Curriculum Theory and Development (3)
   - EDSE A671* The Impact of Social Issues on Education (3) or
   - EDSE A419 Diversity in the Classroom (3)

   The course work listed above must be completed before the student can be admitted to the methods sequence.

   - ED A685* Methods for Secondary Education (3) 3-4
   - Methods courses specific to the content area
     (i.e., ENGLA476, MUS A471/A472, ART/ED A442/418, JPC A601)
   - ED A687 Advanced Practicum: Education 3

   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
     (must be from a list of courses approved annually by the Alaska Department of Education).
   - Total 36-37

   *Note: Courses only taught Fall Semester.

**FACULTY**

Claudia Dybdahl, Professor/Director, AFCSD@uaa.alaska.edu
Helen Barrett, Assistant Professor, AHHC@uaa.alaska.edu
Linda Berg Smith, Assistant Professor, ANLDB@uaa.alaska.edu
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Jill Wheeler, Associate Professor, AFNJW@uaa.alaska.edu

**SCHOOL OF NURSING**

nursing.uaa.alaska.edu/son/
Classroom Building K (K), Room 103, (907) 786-4550

Graduate studies at the master’s level place primary emphasis upon advanced professional nursing practice, theory, research, and health care delivery systems. Students may develop a specialized practice focus in Community Health Nursing, Psychiatric-Mental Health Nursing, Health Care Administration, or as a Family Nurse Practitioner. Master’s level studies provide the student with a basis for further study at the doctoral level. The graduate program is accredited by the National League for Nursing Accreditation Commission (61 Broadway, New York, NY10006; 212-363-5555 ext 135). Graduates in the Family Nurse Practitioner option are eligible to write the national certification examination for advanced professional practice as a family nurse practitioner. Graduates of the Health Care Administration option are eligible, after nurse executive practice, to write the national certification exam for advanced nursing administration. Graduates of the Psychiatric-Mental Health Nursing Option are eligible to write the national certification examination for advanced practice as a clinical specialist in psychiatric-mental health nursing. Graduates of the Community Health Nursing Option are eligible to write the national certification examination for advanced practice as a clinical specialist in community health nursing.

**MASTER OF SCIENCE, NURSING SCIENCE**

**ADMISSION REQUIREMENTS**

See the beginning of this chapter for 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. For the Family Nurse Practitioner option, preparation in health history taking, and physical assessment within the last five years (preparation may be documented by an academic course, continuing education units or a challenge exam).
7. The School of Nursing graduate admission application must be submitted directly to the School of Nursing.
8. Three letters of reference submitted directly to the School of Nursing. References may be contacted by a member of the Admissions Committee.
9. Essay relative to career goals, career development plans and personal/professional philosophy submitted directly to the School of Nursing.
10. 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
   - HS/NS A625 Biostatistics for Health Professionals 3
   - NS A642 Professional Nursing in Perspective 3
   - NS A699 Thesis (2-3) 5

2. Complete one of the following options (22-32 credits):

   **A. Family Nurse Practitioner Option (32 credits):**
   - NS A601 Advanced Pathophysiology 3
   - NS A602 Advanced Health Assessment in Primary Care 3
   - NS A610 Pharmacology for Primary Care 3
   - NS A660 Family Nurse Practitioner I 4
   - NS A661 Family Nurse Practitioner II 5
   - NS A662 Family Nurse Practitioner III 6
   - NS A663 Family Nurse Practitioner, Clinical Concentration 5
   - Elective 3

   **B. Psychiatric-Mental Health Nursing Option (32 credits):**
   - NS A601 Advanced Pathophysiology 3
   - NS A602 Advanced Health Assessment in Primary Care 3
   - NS A610 Pharmacology for Primary Care 3
   - NS A670 Advanced Psychiatric/Mental Health Nursing I 5
   - NS A671 Advanced Psychiatric/Mental Health Nursing II 5
   - NS A672 Advanced Psychiatric/Mental Health Nursing III 5
   - NS A674 Advanced Psychiatric/Mental Health Nursing IV 5
   - Elective 3

   **C. Community Health Nursing Option (25 credits):**
   - NS A626 Principles of Epidemiology 3
   - NS A650 Advanced Community Health Nursing I 4
   - NS A651 Advanced Community Health Nursing II 4
   - NS A652 Advanced Community Health Nursing III 4
   - NS A656 Grant Writing for Health Professionals 1
   - NS A658 Public Health Policy 3
   - Electives 6

   **D. Health Care Administration Option (22-23 credits):**
   - NS A658 Public Health Policy 3
   - NS A681 Analysis of Health Services 3
   - NS A682 Administrative Services 3
   - NS A682L Administrative Services Fieldwork (Optional) 1
   - NS A695 Practicum in Health Care Administration 4
   - Elective, Advisor approved 3
   - Choose either set of nine credits from the following:
     - PADM A610 Organizational Theory and Behavior(3)
     - PADM A624 Human Resources Administration (3)
   - Elective, Advisor approved (6)

3. A total of 40-50 credits is required for the degree.

**CANDIDACY**

The student is eligible for advancement to candidacy after demonstration of ability to succeed in graduate study through approval of the thesis proposal by the student’s thesis committee and the UAA Institutional Review Board (IRB).

**THESIS CREDITS**

A total of 5 credits of thesis is required for the degree. Students who are unable to complete the thesis while registered for 5 credits may be given a DF (deferred) grade for one semester; those students will be required to complete the Graduate Continuous Registration procedures (at the beginning of this chapter) and pay all fees. Students who are unable to complete the thesis during these three semesters will be required to register for 2 credits of NS A699 Thesis every semester thereafter (excluding summer sessions) until the thesis is satisfactorily completed. There is no limit to the number of thesis credits that may be accrued; however, no more than 13 credits of thesis may be accrued without the student being required to take additional course work at the graduate-level. Specific requirements for additional course work will be determined by the Director of the Graduate Program in Nursing and the Thesis Chair.
PART-TIME/FULL-TIME STUDY

Options are available for full-time and part-time study. Prior to being formally admitted to graduate study, students may complete up to nine credits of degree applicable course work, either UA Acredit (with permission of the instructor) or transfer credit.

For part-time students, admission to Graduate Study only is recommended, with formal admission to a specialty track being delayed until core course requirements have been completed. Enrollment in any clinical course requires formal admission to graduate study and to the specialty track.

ADDITIONAL REQUIREMENTS

All students enrolled in UA 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 B (by titer), documentation of diphtheria/tetanus immunization within the past 10 years, annual PPD skin test or health exam indicating freedom from active tuberculosis, and documentation of an annual HIV test (results not required); and the results of a national level criminal background check.

Students are required to provide their own transportation to clinical sites. Students are also responsible for their portion of the cost of audio-conferencing. It is recommended that students have access to a personal computer and that they gain basic skills in computerized word processing prior to entry into the nursing programs.

SCHEDULING OF COURSES

Graduate nursing courses are offered in an alternative scheduling format consisting of intensive classroom sessions presented in short time blocks on the UAA campus followed by periodic class meetings throughout the semester that are available via computer and audio-conference. Thus, it is possible for students who reside outside of Anchorage to take advantage of the opportunity to pursue graduate study at UAA. In addition, all students have the opportunity to take advantage of clinical learning opportunities throughout the State, including both urban and rural settings.

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SOCIAL WORK

www.ualaska.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 UAAMSW 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-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 592, 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 lifespan; 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 UA Agraduate 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/HS 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* 3 (may be taken in the fall semester)
- 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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COMMUNITY AND TECHNICAL COLLEGE

CAREER AND TECHNICAL EDUCATION
Beatrice McDonald Building (BMB), Room 210B, (907) 786-6423

Note: The Career and Technical Education program is undergoing revision. Please contact the department for information.

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 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**
     or
   - VE A644 Improving Instruction in Vocational Education (3)
   - VE A655 Curriculum Development in Vocational Education 3

*If credit was earned for VE A411, students must substitute a three-credit, VE 600-level course approved by the advisor for VE A611.
**VE A643 is recommended if an educational methods course has not been completed.

2. Complete the research component (a minimum of 6 credits):
   - ED A627 Educational Research 3
   - VE A698 Individual Research (1-6 credits) 3

3. Complete 12 credits of electives jointly selected with the graduate advisor. Electives may be in a technical area. Only six credits of Performance Based Teacher Education (PBTE) modules and 6 credit of VE A690 may be used in partial fulfillment of this requirement. 12

4. A total of 36 credits is required for the degree.

FACULTY

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SCHOOL OF ENGINEERING

The School of Engineering offers graduate degrees in Arctic Engineering, Civil Engineering, Engineering Management, Science Management, Environmental Quality Engineering and Environmental Quality Science. The four engineering degree programs require a baccalaureate degree in engineering for admission while the two science degree programs require a baccalaureate degree in science as an entrance requirement. The graduate offerings of the School of Engineering are scheduled to accommodate evening students. As a result the graduate programs normally require two or more years for completion.

A project or thesis may be required as a part of each graduate program within the School of Engineering. A lecture course may, with the approval of the student’s graduate committee, be substituted for the project. For this option, students must have completed the equivalent of a master’s research project.

ARCTIC ENGINEERING

www.engr.uaa.alaska.edu
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 approved by the student’s graduate committee, of which 6 to 12 credits will be thesis (CE A699).

**FACULTY**

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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

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 than 9 semester credits of appropriate graduate-level course work completed at other institutions with a grade of “A” or “B” may be transferred and applied toward the total 30 credits of required and elective courses. Both substitutions and transfer of credit must be approved by the department.

1. Complete the following Area requirements (21 credits):

   **A. Management Area (9 credits minimum):**
   - ESM A601 Engineers in Organizations (3)
   - Choose one course from the following: (3)
     - ESM A609 Project Management
     - ESM/BAA617 Technology Management (3)
   - Choose one course from the following: (3)
     - ESM A608 Legal Environment for Engineering Management
     - ESM A609 Project Management (3)
     - ESM A613 Management of Technical People (3)
     - ESM/BAA617 Technology Management (3)
     - ESM/BAA623 Total Quality Management (3)
     - ESM/BAA625 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
     - ESM A621 Operations Research (3)
   - Choose one course from the following: (3)
     - ESM/BAA619 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:

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University of Alaska Anchorage
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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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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 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

050-099 Provide supplemental preparation for introductory college courses.
LOWER-DIVISION COURSES

100-199. Introduce a field of knowledge and/or develop basic skills. These are usually foundation or survey courses.

200-299. 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.

300-399. Build upon previous course work and require familiarity with the concepts, methods, and vocabulary of the discipline.

400-499. 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 111 is ordinarily taken by first-year students, and ENGL 318 is taken by third-year students. More specifically, course numbers have the following meanings:

001-049. 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.

050-099. Courses applicable to some vocational certificates but not to associate or associate of applied science degrees, baccalaureate degrees, master’s degrees, or professional certificates.

100-199. Freshman-level, lower-division courses. Applicable to certificates, associate, and baccalaureate degrees.

200-299. Sophomore-level, lower-division courses. Applicable to certificates, associate, and baccalaureate degrees.

300-399. Junior-level, upper-division courses. Applicable to associate and baccalaureate degrees.

400-499. 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.

500-599. 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.

600-699. 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
- Natural Sciences
- Humanities
- Fine Arts
- Social 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.

University of Alaska Anchorage 2001-2002 Course Catalog
www.uaa.alaska.edu
ACCOUNTING - ACCT

http://www.ccpp.alaska.edu/DEGREES/acct.html

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.

ACCT A051 Recordkeeping for Small Business 1 CR
Contact Hours: 1 + 0
Offered only at Matanuska-Susitna College.
Special Note: Does not satisfy any degree requirements even as an elective.

Provides an overview of what a bookkeeper does and the role they provide to a small business. Includes basic accounting and bookkeeping practices in reconciliation of bank accounts, payroll, tax laws, application for federal identification numbers, state ESC numbers, business licenses, quarterly and annual reports, accounts receivable, depreciation, inventory, financial statements and income taxes.

ACCT A101 Principles of Financial Accounting I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: MATH A055 with minimum grade of C or equivalent Math Placement Test.
Special Note: ACCT A101 and ACCT A102 will satisfy requirement for ACCT A201. AAS accounting majors must take ACCT A101 and ACCT A102. Offered Fall and Spring Semesters.
First semester principles of accounting. Introduces concepts and procedures for financial accounting. Emphasis on accounting cycle, recording, summarizing, and interpreting accounting data through presentation of formal financial statements.

ACCT A102 Principles of Financial Accounting II 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A101.
Special Note: ACCT A101 and ACCT A102 will satisfy requirement for ACCT A201. AAS accounting majors must take ACCT A101 and ACCT A102. Offered Fall and Spring Semesters.

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, uncollectable accounts receivable, plant assets and depreciation, notes and interest, and accrued expenses. 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.
Introduces students to the use of computers for accounting purposes. Includes the basic concepts and techniques of computerized accounting systems.

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.

ACCT A230 Financial Statement Preparation and Presentation 3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCT A101 and ACCT A102] or ACCT A201. Offered Fall 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 A652 Advanced Auditing Theory and Practice 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Admission to MBA program with accounting emphasis.  
Offered as Demand Warrants.  
Intensive study of AICPA statements on auditing standards; case problems in public accounting practice; survey of auditing literature.

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

ADTA101 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.

ADTA102 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.

ADTA111 Power Trains I 3 CR  
Contact Hours: 2 + 2  
Prerequisites: (ADTA102 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.

ADTA114 Power Trains II 3 CR  
Contact Hours: 2 + 2  
Prerequisites: ADTA111.  
Special Fees.  
Theory, diagnosis, and repair of automotive power train systems to include manual transmissions, transaxles, drive axles, and differentials.

ADTA115 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.

ADTA121 Auto Electrical I 3 CR  
Contact Hours: 2 + 2  
Prerequisites: (ADTA102 or concurrent enrollment).  
Special Fees.  
Theory, diagnosis, and repair of automotive electrical systems to include transmission control module, fuel systems, and accessories.  

ADTA130 Basic Auto Engines 3 CR  
Contact Hours: 2 + 2  
Prerequisites: ADTA102.  
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.
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADTA131</td>
<td>Auto Electrical II</td>
<td>3 CR</td>
<td>2 + 2</td>
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<tr>
<td></td>
<td>Contact Hours: 2 + 2</td>
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<td></td>
<td>Prerequisites: ADTA121.</td>
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<td>Special Fees:</td>
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<tr>
<td></td>
<td>Theory, diagnosis and repair of automotive electrical systems, to include testing tools, schematics, and computers.</td>
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<tr>
<td>ADTA135</td>
<td>Automotive Technology— Asset II</td>
<td>13 CR</td>
<td>8 + 12</td>
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<tr>
<td></td>
<td>Registration Restrictions: Formal acceptance into the UAA/Ford ASSET program.</td>
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<td></td>
<td>Special Note: Includes 280 hours of on-the-job training.</td>
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<td>Presents 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>ADTA150</td>
<td>Brake Systems</td>
<td>4 CR</td>
<td>2 + 4</td>
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<td></td>
<td>Contact Hours: 2 + 4</td>
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<td>Prerequisites: ADTA121.</td>
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<td>Special Fees:</td>
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<tr>
<td></td>
<td>Theory, diagnosis, and repair of automotive brake systems.</td>
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<tr>
<td>ADTA162</td>
<td>Suspension and Alignment</td>
<td>4 CR</td>
<td>2 + 4</td>
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<td></td>
<td>Contact Hours: 2 + 4</td>
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<td></td>
<td>Prerequisites: ADTA121.</td>
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<td></td>
<td>Special Fees:</td>
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<tr>
<td></td>
<td>Modern automated suspension, alignment, and steering theory, inspection, service, and adjustments including four wheel alignment.</td>
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<tr>
<td>ADTA170</td>
<td>General Motors ASEPI</td>
<td>9 CR</td>
<td>6 + 6</td>
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<td></td>
<td>Contact Hours: 6 + 6</td>
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<td></td>
<td>Prerequisites: ASSET Reading Skills with score of 43 and ASSET Writing Skills with score of 40 and ASSET Numerical Skills with score of 43 and [ADTA102 or (ADTA102 or concurrent enrollment)].</td>
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<tr>
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<td>Registration Restrictions: Formal acceptance into the UAA General Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealership. ADTA102, or concurrent enrollment, required.</td>
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<td>Special Fees:</td>
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<td></td>
<td>Special Note: Student is expected to provide the basic hand tools needed to participate in lab activities.</td>
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<td></td>
<td>Covers electrical and electronics theory, use of electrical schematics and testing tools, diagnosis and repair of automotive electrical systems, batteries, charging systems and cranking systems used on late model General Motors (GM) vehicles. Emphasizes GM training courses as required by the International Association of GM Automotive Service Education Programs.</td>
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<tr>
<td>ADTA171</td>
<td>General Motors ASEPII</td>
<td>12 CR</td>
<td>8 + 8</td>
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<tr>
<td></td>
<td>Contact Hours: 8 + 8</td>
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<td></td>
<td>Prerequisites: ADTA170.</td>
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<tr>
<td></td>
<td>Registration Restrictions: Acceptance into the UAA General Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealer.</td>
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<td>Special Fees:</td>
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<tr>
<td></td>
<td>Special Note: Student is expected to provide the basic hand tools needed to participate in lab activities.</td>
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<tr>
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<td>Covers design, construction, diagnosis, and repair procedures for heating, ventilation, and air conditioning systems, sound systems and supplemental inflatable restraint systems used in late model GM vehicles. Emphasizes related GM training courses as required by the International Association of GM Automotive Service Education Programs.</td>
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<tr>
<td>ADTA195</td>
<td>Automotive Practicum I</td>
<td>1-6 CR</td>
<td>0 + 5-3</td>
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<td></td>
<td>Contact Hours: 0 + 5-3</td>
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<td>Registration Restrictions: At least 12 credits of advisor approved ADT program technical courses, and a valid Alaska driver license.</td>
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<tr>
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<td>Special Note: Although students may enroll in a maximum of 18 credits of Practicum I, only 6 credits apply to the Certificate in Automotive Technology. Non-Transcribed Departmental Certificate of Completion in Automotive Electrical; Automotive Brakes; Suspension and Alignment; and Automotive Power Train; and the AAS degree in Automotive Technology.</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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<tr>
<td>ADTA211</td>
<td>Auto Fuel Systems</td>
<td>4 CR</td>
<td>3 + 2</td>
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<td></td>
<td>Contact Hours: 3 + 2</td>
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<td>Prerequisites: ADTA195.</td>
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<td>Special Fees:</td>
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<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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<tr>
<td>ADTA212</td>
<td>Engine Performance</td>
<td>6 CR</td>
<td>4 + 4</td>
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<td></td>
<td>Contact Hours: 4 + 4</td>
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<td></td>
<td>Prerequisites: ADTA131.</td>
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<td>Special Fees:</td>
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<td>Special Note: Specialty tools required. 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>ADTA215</td>
<td>Automotive Technology— Asset III</td>
<td>13 CR</td>
<td>8 + 12</td>
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<td>Registration Restrictions: Formal acceptance into the UAA/Ford ASSET program. Special Fees.</td>
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<td>Special Note: Includes 280 hours of on-the-job training. 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>ADTA225</td>
<td>Auto Heating and A/C</td>
<td>3 CR</td>
<td>2 + 2</td>
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<td></td>
<td>Contact Hours: 2 + 2</td>
<td></td>
<td></td>
<td>Prerequisites: ADTA131.</td>
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<tr>
<td></td>
<td>Theory, diagnosis and repair of automotive heating and air conditioning systems.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADTA227</td>
<td>Auto Electrical III</td>
<td>3 CR</td>
<td>2 + 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 2</td>
<td></td>
<td></td>
<td>Prerequisites: ADTA131.</td>
</tr>
<tr>
<td></td>
<td>Special Note: Specialty tools required. Theory, diagnosis and repair of automotive electrical and electronic systems, to include accessories.</td>
<td></td>
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<tr>
<td>ADTA235</td>
<td>Automotive Technology—Asset IV</td>
<td>13 CR</td>
<td>8 + 12</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 8 + 12</td>
<td></td>
<td></td>
<td>Registration Restrictions: Formal acceptance into the UAA/Ford ASSET program. Special Fees. Special Note: Includes 280 hours of on-the-job training.</td>
</tr>
<tr>
<td></td>
<td>Special Note: Includes 280 hours of on-the-job training. 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>
<td></td>
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<tr>
<td>ADTA241</td>
<td>Diesel Fuel Systems</td>
<td>2 CR</td>
<td>2 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
<td></td>
<td></td>
<td>Registration Restrictions: Third semester diesel student. Corequisite: ADTA245 and ADTA246. Special Fees.</td>
</tr>
<tr>
<td></td>
<td>Develops working knowledge needed for proper servicing of major diesel fuel systems used in Northwestern United States.</td>
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<tr>
<td>ADTA243</td>
<td>Heavy-Duty Electrical Systems</td>
<td>3 CR</td>
<td>2 + 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 3</td>
<td></td>
<td></td>
<td>Registration Restrictions: Knowledge of basic electricity and/or experience with electrical systems. Special Fees.</td>
</tr>
<tr>
<td></td>
<td>Provides students with theory and diagnostic skills for heavy-duty starters, alternators, and circuits. Integral part of third semester Diesel Technology Program.</td>
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</tr>
<tr>
<td>ADTA245</td>
<td>Diesel Engines</td>
<td>2 CR</td>
<td>2 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
<td></td>
<td></td>
<td>Registration Restrictions: Third semester diesel student. Corequisite: ADTA241 and ADTA246. Special Fees.</td>
</tr>
<tr>
<td></td>
<td>Provides students and technicians with exposure to two- and four-stroke diesel engines, and related systems such as air space induction, coolant, and lubrication.</td>
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<tr>
<td>ADTA246</td>
<td>Diesel Service Laboratory I</td>
<td>5 CR</td>
<td>0 + 15</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 0 + 15</td>
<td></td>
<td></td>
<td>Registration Restrictions: Third semester diesel student. Corequisite: ADTA241 and ADTA245. Special Fees. Special Note: Basic tool set and diesel tool set required.</td>
</tr>
<tr>
<td></td>
<td>Gives student technicians hands-on experience in structured laboratory setting. Provides students with ability to diagnose and correct functional problems related to fuel, electrical, and diesel components.</td>
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</tbody>
</table>
ADTA248 Diesel Service Laboratory II 6 CR
Contact Hours: 0 + 18
Registration Restrictions: Fourth semester diesel student.
Corequisite: ADTA261, ADTA263 and ADTA265.
Special Fees.
Special Note: Basic tool set and diesel tool set required.
Provides the related laboratory/shop experience to learn how to diagnose and correct functional problems related to power trains, chassis and hydraulics.

ADTA255 Automotive Technology— Asset V 13 CR
Contact Hours: 8 + 12
Registration Restrictions: Formal acceptance into the UA/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.

ADTA261 Hydraulics 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Fourth semester diesel student.
Corequisite: ADTA248, ADTA263 and ADTA265.
Special Fees.
Provides working knowledge for proper troubleshooting and servicing of hydraulic systems.

ADTA263 Heavy-duty Power Trains 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Fourth semester diesel student.
Corequisite: ADTA248, ADTA261 and ADTA265.
Special Fees.
Expands knowledge and skills of light-duty technicians in field of heavy-duty power trains.

ADTA265 Heavy-duty Chassis 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Fourth semester diesel student.
Corequisite: ADTA248, ADTA261 and ADTA263.
Special Fees.
Provides technical background to diagnose and repair heavy-duty air brake and chassis components.

ADTA270 General Motors ASEPIII 12 CR
Contact Hours: 8 + 8
Prerequisites: ADTA170.
Registration Restrictions: Acceptance into the UA General Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealer.
Special Fees.
Prerequisite: 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.

ADTA271 General Motors ASEPIV 12 CR
Contact Hours: 8 + 8
Prerequisites: ADTA170.
Registration Restrictions: Acceptance into the UA General Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealer.
Special Fees.
Prerequisite: 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.

ADTA272 General Motors ASEPV 12 CR
Contact Hours: 8 + 8
Prerequisites: ADTA170.
Registration Restrictions: Acceptance into the UA General Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealer.
Special Fees.
Prerequisite: 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.

ADTA282 Power Trains III 3 CR
Contact Hours: 2 + 2
Prerequisites: ADTA114 and ADTA131.
Special Fees.
Special Note: Specialty tools required.
Theory, diagnosis and repair of automotive power train systems to include automatic transmissions and transaxles.

ADTA295 Automotive Practicum II 3 CR
Contact Hours: 0 + 17
Prerequisites: ADTA195.
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 210, 786-6426

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
Special Fees.
Introduces basic CADD (computer aided drafting and design) and manual drafting skills necessary in civil, architectural, structural, mechanical, and electrical drafting within the construction industry. Defines the working relationship between registered professional designers and drafters/technicians.

AET A102 Methods of Building Construction 3 CR
Contact Hours: 3 + 0
Special Fees.
Introduces basic knowledge of building materials, technical specifications, techniques, and systems. Outlines structural systems, construction processes, and assemblies. Includes a field project involving student team research of current Alaskan building type.

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 drawing 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 drawing symbols, conventions, dimensioning systems, reference systems, sheet organization, code requirements, and research methods for detailing light commercial buildings.
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.
Special Fees.
Introduces technical skills needed by structural drafters and technicians to work with structural engineers. Includes office practices, staff relationships, and structural drawing production. Develops computer-aided drafting skills in symbols, conventions, dimensioning systems, sheet organizations, code analysis and research methods for steel, wood, and reinforced concrete buildings.

AET A142 Mechanical and Electrical Technology 4 CR
Contact Hours: 3 + 2
Introduces the basic mechanical and electrical systems required in all buildings for the safety, health, comfort, and convenience of occupants. Emphasizes code requirements and interpreting construction documents.

AET A143 Mechanical and Electrical Drafting 3 CR
Contact Hours: 2 + 3
Prerequisites: AET A101 and AET A102.
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.
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.
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.
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.
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 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 1-6 CR
Selected Topics (Topic)
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Mode</th>
<th>Registration Restrictions</th>
<th>Grade Mode</th>
<th>Special Fees</th>
<th>Special Note</th>
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<tr>
<td>AGRI A115</td>
<td>Basic Horse Behavior and Training I</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Offered only at Matanuska-Susitna College.</td>
<td>Pass/No Pass</td>
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<td>AGRI A133</td>
<td>Motors and Controls</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Offered only at Matanuska-Susitna College.</td>
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<td>AGRI A136</td>
<td>Introduction to Horticulture</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Offered only at Matanuska-Susitna College.</td>
<td>Pass/No Pass</td>
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<td>AGRI A138</td>
<td>Organic Gardening</td>
<td>1-3 CR</td>
<td>1 + 0</td>
<td>Mode</td>
<td>Pass/No Pass.</td>
<td>Pass/No Pass</td>
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<td>AGRI A213</td>
<td>Practical Horsemanship II</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Offered only at Matanuska-Susitna College.</td>
<td>Pass/No Pass</td>
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<td>AGRI A215</td>
<td>Basic Horse Behavior and Training II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td></td>
<td>Offered only at Matanuska-Susitna College.</td>
<td>Pass/No Pass</td>
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<tr>
<td>AGRI A227</td>
<td>Landscape Design: A Home Owner’s Approach</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>Mode</td>
<td>Pass/No Pass.</td>
<td>Pass/No Pass</td>
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<tr>
<td>AGRI A231</td>
<td>Essentials of Forestry Practice</td>
<td>3 CR</td>
<td>3 + 0</td>
<td></td>
<td>Offered only at Matanuska-Susitna College.</td>
<td>Pass/No Pass</td>
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<tr>
<td>AGRI A240</td>
<td>Greenhouse Operation and Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td></td>
<td>Offered only at Matanuska-Susitna College.</td>
<td>Pass/No Pass</td>
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<tr>
<td>AGRI A245</td>
<td>Master Gardener</td>
<td>3 CR</td>
<td>3 + 0</td>
<td></td>
<td>Offered only at Kenai Peninsula College.</td>
<td>Pass/No Pass</td>
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**ALASKA NATIVE STUDIES - AKNS**

Offered through the College of Arts and Sciences  
College of Arts & Sciences (CAS), Room 354, 786-6135

**AKNS A101**  
Alabama Native Languages I  
4 CR  
Contact Hours: 4 + 0  
Course Attributes: GCR Humanities Requirement.  
Prerequisites: AGRI A101.  
Course Attributes: GER Humanities Requirement.  
Special Note: Course may be repeated for credit if language varies. Native speaking students can gain entrance to the course with the instructor’s signature.  
Continuing study of Language and Culture for those wishing to learn the specific language being offered. TPR (Total Physical Response) method used whereby students learn comprehension and use of language in everyday situations. Some reading and writing included.

**AKNS A102**  
Alabama Native Languages II  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: AKNS A101.  
Course Attributes: GER Humanities Requirement.  
Special Note: Course may be repeated for credit if language varies. It is assumed that students have the appropriate level of language proficiency to master this course. Students should discuss with the instructor expectations and demands of this course prior to registering.  
An introduction to reading and writing a selected Alaska Native language for students with Native or near-Native oral proficiency in the respective language. Students are introduced to alphabet and phonetic classification, to dialect differences, and to the history of the written language. Students practice reading and writing the language.

**AKNS A109**  
Alabama Native Language Orthography  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: AKNS A101.  
Special Fees.  
Special Note: Course may be repeated for credit if language varies. TPR (Total Physical Response) method used whereby students learn comprehension and use of language in everyday situations. Some reading and writing included.

**AKNS A110**  
Parliamentary Procedures  
1 CR  
Contact Hours: 1 + 0  
Prerequisites: AGRI A101.  
Stacked with: PS A110.  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Introduction to Alaska Native perspectives on time, philosophy and spirituality, communication, justice, and their ecology, and their relationship to contemporary issues. Includes overviews of Alaska Native peoples and of language groups necessary to an understanding of the diversity of Native perspectives.

**AKNS A201**  
Native Perspectives  
3 CR  
Contact Hours: 3 + 0  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Introduction to Alaska Native perspectives on time, philosophy and spirituality, communication, justice, and their ecology, and their relationship to contemporary issues. Includes overviews of Alaska Native peoples and of language groups necessary to an understanding of the diversity of Native perspectives.

**AKNS A290**  
Selected Topics in Alaska Native Studies  
1-3 CR  
Contact Hours: 1-3 + 0  
Special Fees.  
Subtitle varies. May be repeated for credit with a different subtitle. A topic of contemporary or continuing interest in Alaska Native Studies, treated at an introductory level. Prominent leaders in the Native community are brought into direct classroom contact with students to discuss important issues in rural Alaska and the larger Native community.
ANTH A200  Natives of Alaska  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.
Introduction to culture and history of Alaska Natives. Includes environmental settings, linguistic subdivisions, traditional sociocultural organization and subsistence patterns, contact with non-Native groups, and contemporary issues.

ANTH A202  Cultural Anthropology  3 CR
Contact Hours: 3 + 0
Course Attributes: 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
Special Fees.
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 A333 Peoples and Cultures of Southeast Asia 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 recommended.
Offered as Demand Warrants.
Cultural variation and unifying traditions of Southeast Asian peoples, including their prehistory, early cultural influences, effects of European contact, major cultural traditions and selected current issues.

ANTH A335 Native North Americans 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 recommended.
Offered as Demand Warrants.
Traditional cultures of Native North Americans, effects of contact with Europeans and contemporary adaptations.

ANTH A336 Peoples and Cultures of South America 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202, A211 recommended.
Offered as Demand Warrants.
Cultural traditions of South American peoples, including origins, prehistory, languages, biological and cultural affiliations, effects of European contact, historical transformations, contemporary adaptations, and current issues.

ANTH A338 Peoples and Cultures of Scandinavia 3 CR
Contact Hours: 3 + 0
Offered as Demand Warrants.
Cultural history and variations of Scandinavian peoples including their origins, prehistory, biological affiliations, major migrations and selected current issues.

ANTH A350 Survey of the Primates 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Upper-division standing.
Offered as Demand Warrants.
Introduction to the biology and behavior of nonhuman primates.

ANTH A354 Culture and Ecology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A202.
Offered as Demand Warrants.
Anthropological approaches to the relationships between cultural and ecological systems. The notion of culture as an adaptive system and the role of various cultural subsystems in different adaptations. Intensive study of selected cases provides empirical grounding for theoretical formulations.

ANTH A361 Language and Culture 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A200 or ANTH A202.
Descriptive and comparative study of religious phenomena in traditional societies including myth, ritual, magic, witchcraft, and shamanism.

ANTH A365 Races: Modern Human Diversity 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Upper-division standing.
Survey of modern human biological variation in an evolutionary perspective. Comparison of the differences (and similarities) within and between modern human populations and the distribution of those differences.

ANTH A371 Selected Topics in Anthropology 1-3 CR
Contact Hours: 1-3 + 0
Special Note: May be repeated for credit.
Topics vary.

ANTH A400 Anthropology of Religion 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 recommended.
Offered as Demand Warrants.
Descriptive and comparative study of religious phenomena in traditional societies including myth, ritual, magic, witchcraft, and shamanism.

ANTH A410 History of Anthropology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A202.
Offered Spring Semesters.
Development of the science of anthropology, stressing the leaders in the field and the theories developed.

ANTH A413 Peopling of the Americas 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A312.
Registration Restrictions: ANTH A211 strongly recommended.
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 A200 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 HISTA341 strongly recommended.
Stacked with: ANTH A627.
Offered Alternate Fall 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
Prerequisites: ANTH A202.
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 Tlingit 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 Tlingit and Haida Indians to the northeastern Pacific Coast of North America. The course is divided into precontact, traditional, and ethnohistoric periods covering the time from earliest occupation of the region up to 1900. System comparison and contrast of the ecological, social, ceremonial, and cultural characteristics of each society as well as responses to Euroamerican contact.

ANTH A439 Athapaskan Adaptations 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A200.
Offered as Demand Warrants.
An analysis of traditional and contemporary cultures and history of the northern Athapaskan speakers of the boreal forest of interior Alaska and northwestern Canada. Emphasizes environmental adaptations, commonalities and variations in cultural patterning, the impact of interactions with neighboring peoples including Europeans, and culture change over time.

ANTH A445 Evolution of Humans and Disease 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A205.
Registration Restrictions: AS A253 or AS A307 strongly recommended.
Stacked with: ANTH A645.
Offered as Demand Warrants.

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.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
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<tbody>
<tr>
<td><strong>ANTH A615</strong> Advanced Applied Anthropology 3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Registration Restrictions: Graduate standing.</td>
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<tr>
<td>Stacked with: ANTH A415.</td>
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<td>Special Fees.</td>
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<tr>
<td>Special Note: Lectures concurrent with ANTH A415. In addition to meeting all requirements for ANTH A415, graduate students will be required to make mixed-media class presentations based on literature research or interviews with local practicing anthropologists. Offered Alternate Fall Semesters. The methods, theory, and history of the application of cultural anthropology to sociocultural issues and problems with an emphasis on the circumpolar north.</td>
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<tr>
<td><strong>ANTH A627</strong> Ethnohistory of Alaska Natives 3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: Graduate Standing.</td>
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<tr>
<td>Stacked with: ANTH A427.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Special Note: In addition to meeting all requirements for ANTH A427, graduate students will be required to Prepare a research paper from primary sources (oral, written, or both) and give a presentation of findings to the class.</td>
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<tr>
<td>Examines major changes in Alaskan Native societies from contact through 1940 including initial contacts, disease, trade, warfare, education, missionization, economic development and political mobilization. Integrates different sources of information including oral traditions, historical narratives, government documents, and archaeological evidence.</td>
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<tr>
<td><strong>ANTH A630</strong> Advanced Research Methods in Cultural Anthropology 3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: Graduate Standing.</td>
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<tr>
<td>Stacked with: ANTH A430.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Special Note: Lectures concurrent with ANTH A430. In addition to meeting all requirements for ANTH A430, graduate students will be required to Complete a research grant proposal and engage in computer-assisted qualitative data analysis. Offered as Demand Warrants.</td>
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<tr>
<td>Modes of scientific data gathering, analysis, and interpretation related to sociocultural systems. Includes the logic of scientific inquiry, research design, data recording, computer assisted qualitative data analysis, field work strategies, ethnographic and report writing, ethics in social science research and grant proposal preparation.</td>
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<tr>
<td><strong>ANTH A631</strong> Field Methods in Archaeology 1-8 CR</td>
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<tr>
<td>Contact Hours: 0 + 3-24</td>
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<tr>
<td>Registration Restrictions: Written permission of the instructor.</td>
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<tr>
<td>Stacked with: ANTH A431.</td>
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<td>Special Fees.</td>
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<tr>
<td>Special Note: May be repeated once for credit. Graduate students will supervise the work of less experienced undergraduates under the overall supervision of the project director. They will be responsible for the quality of the excavation and recording of their undergraduate crew. They will be critically evaluated as potential professionals. Offered as Demand Warrants.</td>
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<tr>
<td>Advanced methods of archaeological field research, including site survey, site excavation, data recovery and recording, laboratory processing, and preliminary analysis of archaeological materials.</td>
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<tr>
<td><strong>ANTH A645</strong> Advanced Evolution of Humans and Disease 3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Registration Restrictions: Graduate Standing.</td>
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<tr>
<td>Stacked with: ANTH A445.</td>
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<td>Special Fees.</td>
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<tr>
<td>Special Note: In addition to meeting all requirements for ANTH A445, graduate students will be assigned more extensive reading and will be required to pursue a major semester-long research project, to deliver a presentation of their research findings to the class, and to report their results in written form. Not available for credit to students who have completed ANTH A445. Offered as Demand Warrants.</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>ANTH A655</strong> Advanced Medical Anthropology 3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Registration Restrictions: Graduate Standing.</td>
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<tr>
<td>Stacked with: ANTH A455.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Special Note: In addition to meeting all requirements for ANTH A455, graduate students will be required to research the literature on a current topic in medical anthropology or to conduct independent research in medical anthropology, and to submit an extensive, detailed paper summarizing their findings in a rigorous analytical framework. Additional class readings may also be assigned. Not available for credit to students who have completed ANTH A455. Offered Alternate Fall Semesters.</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>ANTH A657</strong> Nutritional Anthropology 3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: Graduate Standing.</td>
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<tr>
<td>Stacked with: ANTH A457.</td>
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<td>Special Fees.</td>
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<tr>
<td>Special Note: In addition to meeting all requirements for ANTH A457, graduate students will be required to research the literature on a current topic in nutritional anthropology or to conduct independent research in nutritional anthropology, and to submit an extensive, detailed paper summarizing their findings in a rigorous analytical framework. Additional class readings may also be assigned. Not available for credit to students who have completed ANTH A457. Offered Alternate Spring Semesters.</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>ANTH A665</strong> Analytical Techniques in Biological Anthropology 3 CR</td>
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<tr>
<td>Contact Hours: 2 + 3</td>
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<td>Registration Restrictions: Graduate Standing.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>ANTH A675</strong> Cultural Resource Management 3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: Graduate Standing.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>An integrated anthropological perspective on historic preservation and the management of cultural resources in the United States. Includes the history of resource protection legislation, the design and implementation of cultural resource management projects, proposal writing, field research strategies, resource evaluation, report preparation, and business and personnel practices.</td>
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<tr>
<td><strong>ANTH A680</strong> Advanced Analytical Techniques in Archaeology 3 CR</td>
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<tr>
<td>Contact Hours: 0 + 9</td>
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<tr>
<td>Registration Restrictions: Written permission of the instructor and graduate standing.</td>
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<tr>
<td>Stacked with: ANTH A480.</td>
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<td>Special Fees.</td>
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<tr>
<td>Special Note: Class meets concurrently with ANTH A480. In addition to meeting all requirements for ANTH A480, graduate students will be assigned more extensive reading and will be required to pursue a major semester-long research project, to deliver a presentation of their research finds to the entire class, and to report their results in written form. Offered as Demand Warrants.</td>
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<tr>
<td>Advanced methods and techniques of description, classification, and analysis of archaeological data. Laboratory work with archaeological specimens and data is emphasized.</td>
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</tbody>
</table>
ANTH A681 Advanced Museum Studies in Anthropology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Offered as Demand Warrants.
Special Fees.
History and practice of anthropology in museums. Anthropological and metaphysical dimensions of museums and material culture; the history of ethnographic collecting and research (particularly in North America); critical theory and practice of exhibitions and cultural representation; repatriation and indigenous museums in historical context.

ANTH A683 Archaeology of Animals 3 CR
Contact Hours: 2 + 3
Registration Restrictions: Graduate Standing and previous or concurrent course in archaeology laboratory methods.
Special Note: Class meets concurrently with ANTH A485. In addition to doing the work assigned to undergraduates, graduate students will be expected to undertake an extensive collection research or exhibition preparation project which will constitute a significant portion of their grade.

ANTH A685 Advanced Human Osteology 3 CR
Contact Hours: 2 + 3
Registration Restrictions: Graduate standing.
Special Note: Class meets concurrently with ANTH A485. In addition to meeting all the requirements for ANTH A485, graduate students will be assigned more extensive reading and will be required to pursue a major semester-long research project, to deliver a presentation of their research findings to the entire class, and to report their results in written form. Not available for credit to students who have completed ANTH A485.

ANTH A692 Graduate Seminar in Anthropology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing in Anthropology.
Special Fees.
Examination of advanced concepts, theory, and/or methodology in one of the four subfields of anthropology.

ANTH A695 Anthropology Practicum 3 CR
Contact Hours: 0 + 9
Registration Restrictions: ANTH A615 for Applied Cultural M.A. in Anthropology track; ANTH A675 for Cultural Resource Management M.A. in Anthropology track. Prerequisites may be taken concurrently with course.

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.

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.

Alaska outdoor and experiential education - AOEE
http://www.uaa.alaska.edu/aoee/

AOEE A102 Nature Observation and Tracking 3 CR
Contact Hours: 1 + 4
Special Fees.
Special Note: Requires ability to function comfortably in inclement weather.

AOEE A103 Discovering Wild Plants 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires good physical condition and ability to function comfortably in inclement weather.

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.

AOEE A116 Rock Climbing I 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires ability to function comfortably in inclement weather.

AOEE A117 Ice Climbing I 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires ability to function comfortably in extreme cold temperatures and inclement weather.

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.

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http://www.uaa.alaska.edu
AOEE A126 Indoor Sport Climbing I 1 CR
Contact Hours: .5 + 1
Grade Mode: Pass/No Pass.
Special Fees.
Introduces the fundamentals of sport climbing in an indoor environment. Covers hazard evaluation and risk assessment specific to climbing gyms, selection of personal gear, technical needs, and safety equipment. Provides opportunity to practice knots, rope handling, belaying, descent techniques, and top-rope climbing on an indoor climbing wall.

AOEE A131 Flat-Water Canoeing 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires excellent backcountry camping skills and the ability to function comfortably in inclement weather. An overnight field outing is included in the course.
Introduces the most commonly used equipment, techniques, challenges, and risks found in the sport of canoeing. Includes instruction on equipment selection, trip planning, canoeing strokes, and re-entry techniques with an emphasis on risk assessment and risk management.

AOEE A132 River Rafting I 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires excellent backcountry camping skills and the ability to function comfortably in inclement weather. An overnight field outing is included in the course.
Introduces the most commonly used equipment, techniques, challenges, and risks found in the sport of river rafting. Includes instruction on equipment selection, trip planning, preparing to paddle/row, and minimum impact practices with an emphasis on risk assessment and risk management.

AOEE A133 Introduction to Sea Kayaking 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires excellent backcountry camping skills and the ability to function comfortably in inclement weather. An overnight field outing is included in the course. Students may need to rent or purchase additional gear for this course.
Introduces the fundamentals of sea kayaking in Alaska. Includes the most commonly used equipment, techniques, challenges, and risks found in the activity. Provides instruction in selecting equipment, trip planning, transporting boats, preparing to paddle, boat handling, re-entry techniques and sea kayaking strokes. Emphasizes risk assessment and safety skills.

AOEE A134 Alaska Marine Survival 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires excellent backcountry camping skills and the ability to function comfortably in inclement weather. An overnight field outing is included in the course.
Introduces the 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.
Introduces skills for open water snorkeling and SCUBA diving. Emphasizes selection and use of specialized equipment, hyperbaric theory, proper planning, diving rescue skills, use of recreational dive tables, and first-aid specific to the activity. Heavy emphasis placed on hazard assessment and safety issues.

AOEE A136 Introduction to Sailing 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires ability to perform comfortably in inclement weather. Field sessions may be held on local lakes and/or an ocean environment.
Introduces the equipment, vocabulary, techniques, challenges, and risks most commonly found in the sport of sailing. Provides opportunity to become familiar with safety equipment, learn pre-trip preparation, practice boat-handling skills, and identify steps used in the event of an emergency.

AOEE A146 Cross-Country Ski: Diagonal Stride 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires ability to perform comfortably in extremely cold and inclement weather. Students may need to rent or purchase additional equipment for this course.
Introduces fundamentals of diagonal-stride cross-country skiing. Covers selection of personal clothing, ski and safety equipment, recognition and prevention of cold-weather injuries, and skiing skills and Trail ethics.

AOEE A147 Cross-Country Skate Sking 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires ability to perform comfortably in extremely cold and/or inclement weather for up to two hours. Introduces skate-skimming techniques for groomed trail conditions. Covers hot-waxing, selection of personal and safety equipment, recognition and prevention of cold-weather injuries, and Trail ethics. Provides opportunity for skiing on local trails.

AOEE A148 Skiing Alaska’s Backcountry 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires ability to perform comfortably in extremely cold or inclement weather. Good physical fitness required for all-day outings. Students may need to rent or purchase additional equipment for this course.
Introduces techniques for traveling on flat to rolling terrain, negotiating side hills, and skiing inclines and declines up to 20 degrees. Also covers selection of personal, group, and safety equipment appropriate for day trips, introduction to avalanche hazard evaluation, and learning to assess risk in the field.

AOEE A149 Introduction to Telemark Skiing 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Students may be required to rent or purchase equipment and/or lift tickets for outings. Requires ability to perform comfortably in extremely cold and/or inclement weather.
Introduces the fundamentals of telemark skiing. Covers hazard evaluation, selection of personal ski and safety equipment, recognition and prevention of cold-weather injuries, skiing skills, and ski hill rules.

AOEE A150 Introduction to Snowboarding 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Students may be required to rent or purchase equipment and/or lift tickets for outings. Requires ability to perform comfortably in extremely cold and/or inclement weather.
Introduces snowboarding and the equipment, techniques, challenges, and risks common to the sport. Covers selection of personal and safety equipment, recognition and prevention of cold-weather injuries, skiing skills, and ski hill rules.

AOEE A151 Introduction to Alpine Skiing 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Students may be required to rent or purchase equipment and/or lift tickets for outings. Requires ability to perform comfortably in extremely cold and/or inclement weather.
Introduces the fundamentals of downhill skiing. Covers hazard evaluation, selection of personal ski and safety equipment, recognition and prevention of cold-weather injuries, skiing skills, and ski hill rules.

AOEE A152 Introduction to Winter Camping 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires good physical condition and ability to perform comfortably in extremely cold and/or inclement weather.
Introduces winter camping in Alaska. Covers selection of personal, group and safety equipment appropriate for an overnight outing. Emphasizes snow-shelter construction and learning to assess risk in the field. Course includes an overnight outing.

AOEE A153 Four-Season Backpacking 3 CR
Contact Hours: 1 + 4
Special Fees.
Special Note: Requires good backcountry camping skills, good physical condition and ability to perform comfortably in extremely cold and/or inclement weather. Students may need to rent or purchase additional equipment for this course.
Introduces four-season backpacking in Alaska. Covers selection of personal and safety equipment appropriate for a backpacking trip during any season. Presents trip planning, prevention and assessment of cold injuries, frontcountry and backcountry navigation, avalanche hazard evaluation and rescue techniques. Emphasizes risk assessment and risk management.
AOEE A154  Alaska WinterSurvival  3 CR
Contact Hours: 1 + 4
Special Fees.
Special Note: Requires excellent backpacking skills, good physical condition, and ability to perform comfortably in extremely cold and inclement weather.

Introduces the most common risks and challenges encountered in winter survival situations. Emphasizes hazard evaluation, physical and psychological factors that affect survival, and preparation tips. Provides opportunity to practice outdoor skills and survival techniques.

AOEE A155  Dog Mushing  1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires ability to function comfortably in extremely cold and/or inclement weather.

Introduces the practice of dog mushing, including the sport’s history, dog breeds and characteristics, their training and feeding needs, kennel-management routines, and dog-handling skills.

AOEE A156  Remote First Aid  1 CR
Contact Hours: .5 + 1
Special Note: National Wilderness First Aid and Adult CPR certifications provided upon successful completion of course. This course is not designed for health care providers.

Introduces knowledge and skills necessary to deal with accidents and injuries when 911 is not readily available. Covers assessment and management of the scene, assessment and management of life-threatening conditions, assessment and management/treatment of minor injuries and appropriate patient care for each. Introduces decision making as it relates to delayed transport.

AOEE A163  Wilderness First Responder  4 CR
Contact Hours: 2 + 4
Special Fees.
Special Note: Students are required to possess BLS Provider CPR certificate before end of course. An additional fee may be required for CPR certification. Students will be awarded nationally recognized WFR certificate upon successful completion of course.

Provides knowledge and skills necessary to administer emergency and medical care in non-urban environments. Covers basic anatomy and physiology, assessment and treatment of injuries, appropriate short-term to multi-day patient care and evacuation considerations.

AOEE A204  Expedition Backpacking  2 CR
Contact Hours: 1 + 2
Prerequisites: AOEE A104.
Special Fees.
Special Note: Requires excellent physical condition and ability to function comfortably in inclement weather. A student must attend the shakeout weekend in order to participate in the expedition.

Provides experienced outdoors people with the opportunity to improve wilderness skills and knowledge and to learn how to lead others in outdoor education and recreation. Provides opportunity to present curriculum, facilitate group discussions, improve judgment, practice decision-making and leadership, and teach outdoor living skills.

AOEE 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.

Builds on the skill and knowledge gained in Rock Climbing I. Emphasizes risk management skills, learning to build/use a variety of anchors, and ascending and descending techniques. Introduces a risk/benefit analysis of, but not the practice of, lead climbing vs. following. Provides opportunity to practice protection placement and mock lead climbing.

AOEE A216  Rock Climbing II  1 CR
Contact Hours: .5 + 1
Prerequisites: AOEE A116.
Special Fees.
Special Note: Requires ability to function comfortably in inclement weather.

Builds on the skill and knowledge gained in Rock Climbing I. Emphasizes risk management skills, learning to build/use a variety of anchors, and ascending and descending techniques. Introduces a risk/benefit analysis of, but not the practice of, lead climbing vs. following. Provides opportunity to practice protection placement and mock lead climbing.

AOEE A221  Expedition GlacierSchool  2 CR
Contact Hours: 1 + 2
Special Fees.
Special Note: Requires excellent physical condition and the ability to function comfortably in extremely cold and/or inclement weather.

Applies backpacking and mountaineering techniques in a multi-day glacier expedition. Introduces glacier-travel and crevasse-rescue techniques as well as expedition planning. Emphasizes risk assessment and learning to minimize the inherent risks associated with the activity.

AOEE A263  Wilderness Emergency Medical Technician  4 CR
Contact Hours: 2 + 4
Prerequisites: EMTA130.
Special Fees.
Special Note: Students are required to obtain BLS Provider CPR certificate before end of course. Students in possession of current EMT will be awarded nationally recognized WEMT certificate upon successful completion of course.

Provides knowledge and skills necessary to apply emergency medical training in non-rapid-transport settings. Emphasizes general medicine, trauma, environmental medicine, and wilderness rescue. Provides opportunity for critical thinking, application of skills, and evacuation decision-making.

**APPLIED TECHNOLOGY - APT**

Offered through the Community & Technical College
Beatrice McDonald Building (BMB), Room 210B, 786-6423

APT A100  ScraperOperation  2 CR
Contact Hours: 1 + 2
Registration Restrictions: 1) Minimum of 19 years of age. 2) Hold a valid Alaska State Drivers License (Class B) for at least one year. 3) Hold a Department of Transportation(DOT) medical examiner’s certificate of qualification, which includes a drug and alcohol screen test.
Grade Mode: Pass/No Pass.
Special Note: Offered in conjunction with industry as demand warrants
Provides supervised hands-on operation of a scraper including principles of operation, work site safety, and daily and preventive maintenance.

APT A101  Backhoe Operation  2 CR
Contact Hours: 1 + 2
Registration Restrictions: 1) Minimum of 19 years of age. 2) Hold a valid Alaska State Drivers License (Class B) for at least one year. 3) Hold a Department of Transportation(DOT) medical examiner’s certificate of qualification, which includes a drug and alcohol screen test.
Grade Mode: Pass/No Pass.
Special Note: Offered in conjunction with industry as demand warrants
Provides supervised hands-on operation of the backhoe including principles of operation, work site safety, and daily and preventive maintenance.

APT A102  DozerOperation  2 CR
Contact Hours: 1 + 2
Registration Restrictions: 1) Minimum of 19 years of age. 2) Hold a valid Alaska State Drivers License (Class B) for at least one year. 3) Hold a Department of Transportation(DOT) medical examiner’s certificate of qualification, which includes a drug and alcohol screen test.
Grade Mode: Pass/No Pass.
Special Note: Offered in conjunction with industry as demand warrants
Provides supervised hands-on operation of dozers including principles of operation, work site safety, and daily and preventive maintenance.

APT A103  Motor GraderOperation  2 CR
Contact Hours: 1 + 2
Registration Restrictions: 1) Minimum of 19 years of age. 2) Hold a valid Alaska State Drivers License (Class B) for at least one year. 3) Hold a Department of Transportation(DOT) medical examiner’s certificate of qualification, which includes a drug and alcohol screen test.
Grade Mode: Pass/No Pass.
Special Note: Offered in conjunction with industry as demand warrants
Provides supervised hands-on operation of motor graders including principles of operation, work site safety, and daily and preventive maintenance.

APT A104  ExcavatorOperation  2 CR
Contact Hours: 1 + 2
Registration Restrictions: 1) Minimum of 19 years of age. 2) Hold a valid Alaska State Drivers License (Class B) for at least one year. 3) Hold a Department of Transportation(DOT) medical examiner’s certificate of qualification, which includes a drug and alcohol screen test.
Grade Mode: Pass/No Pass.
Special Note: Offered in conjunction with industry as demand warrants
Provides supervised hands-on operation of excavators including principles of operation, work site safety, and daily and preventive maintenance.
ART A100 Two Dimensional Activities 1-3 CR
(Select Drawing, Painting, Design, or Computer Topics)
Contact Hours: 0-3 + 0-9
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Does not satisfy BA, BFA, or minor in art degree requirements.
May be repeated for credit.

Art studio topics in drawing, painting, design or computers may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

ART A101 Three Dimensional Activities: 1-3 CR
(Select Metals, Sculpture, or Ceramics Topics)
Contact Hours: 0-3 + 0-9
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Does not satisfy BA, BFA, or minor in art degree requirements. May be repeated for credit.

Art studio topics in metals, sculpture, or ceramics may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

ART A102 Fiber and Basketry Activities 1-3 CR
(Select Fiber, Basket Making, or Weaving Topics)
Contact Hours: 0-3 + 0-9
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Does not satisfy BA, BFA, or minor in art degree requirements. May be repeated for credit.

Art studio topics in all areas of fibers, basket making or weaving may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

ART A103 Multi Process Activities 1-3 CR
(Select Printmaking, Paper Making, 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, paper making, or photography may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

ART A104 Multi-Media Activities 1-3 CR
Contact Hours: 0-3 + 0-9
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Does not satisfy BA, BFA, or minor in art degree requirements. May be repeated for credit.

Art studio topics in all areas of multi-media art processes may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

ART A105 Beginning Drawing 3 CR
Contact Hours: 0 + 6
Stacked with: ART A205, ART A305, and ART A405.
Special Fees.
Introduction to elements of drawing. Dry and wet media such as pencil, charcoal, and ink. Class and homework assignments in drawing objects, still lifes, perspective effects, and human forms.

ART A111 Two-Dimensional Design 3 CR
Contact Hours: 0 + 6
Special Fees.
Study of organization, structure, and composition of form using basic design elements such as line, shape, and value. Emphasis is on development of design as related to two-dimensional art.

ART A112 Color Design 3 CR
Contact Hours: 0 + 6
Special Fees.
Two-dimensional study of fundamentals of color and visual perception. Design projects will emphasize evaluation and mixing of color and include development of a color wheel to acquire understanding of contrast in hue, value, and intensity.

ART A113 Three-Dimensional Design 3 CR
Contact Hours: 0 + 6
Special Fees.
Exploration of three-dimensional design, employing such materials as paper, card, wood, sheet metal, plastic and wire using simple hand and machine techniques. Analysis and discussion of three-dimensional perception will be directed by projects that develop awareness. Seeks to stimulate discussion and analysis of three-dimensional perception.

ART A160 Art Appreciation 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Fine Arts Requirement.
Special Fees.
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.
Introduction to elements including pattern designing, cutting, and lead came.

ART A180B Intermediate Stained Glass 1 CR
Contact Hours: 1 + 0
Prerequisites: ART A180A.
Special Fees.
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 B.A. in Art or B.F.A 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 B.A. in Art or B.F.A 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.  
Introduction to ceramic materials and process. Emphasis on wheelthrowing techniques. Includes clays, clay bodies, slips, glazes and the firing process. Exposure to the history and aesthetics of the pottery tradition.

ART A205  Intermediate Drawing  3 CR  
Contact Hours: 0 + 6  
Prerequisites: ART A105.  
Stacked with: ART A105, ART A305, and ART A405.  
Special Fees.  
Special Note: May be repeated once for credit.  
Drawing in class from live models. Emphasizes expanding visual awareness through drawing.

ART A209  Beginning Metalsmithing and Jewelry  3 CR  
Contact Hours: 0 + 6  
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.  
Stacked with: ART A309 and ART A409.  
Special Fees.  
Special Note: May be repeated once for credit.  
Introduces basic techniques of metalsmithing and jewelry.

ART A211  Beginning Sculpture  3 CR  
Contact Hours: 0 + 6  
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.  
Stacked with: ART A311 and ART A411.  
Special Fees.  
Special Note: May be repeated once for credit.  
Exploration of fundamental elements of form, mass, volume, scale, material and surface. Introduction to aesthetics and history of modern sculpture. Acquaints student with the tools, techniques and materials available to the sculptor.

ART A212  Beginning Watercolor Painting  3 CR  
Contact Hours: 0 + 6  
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.  
Stacked with: ART A312 and ART A412.  
Special Fees.  
Special Note: May be repeated once for credit.  
Exploration of aquarelle techniques. Emphasizes composition as affected by color, value, stylistic considerations, and individual expression; exhibition procedures are included.

ART A213  Beginning Painting  3 CR  
Contact Hours: 0 + 6  
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.  
Stacked with: ART A313 and ART A413.  
Special Fees.  
Special Note: May be repeated once for credit.  
Introduction to basic materials and techniques in oil or acrylic painting. Emphasizes understanding form in space and light, and the interaction of form with color, value, and texture in paint.

ART A215  Beginning Printmaking  3 CR  
Contact Hours: 0 + 6  
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.  
Stacked with: ART A315 and ART A415.  
Special Fees.  
Special Note: Two processes will be focused on each semester. May be repeated once for credit.  
Beginning lithography, serigraphy, intaglio and relief history and techniques are investigated. Encourages creativity and craftsmanship in the development and printing of multiples, augmented with an awareness of traditional and contemporary methods and skills.

ART A224  Beginning Photography  3 CR  
Contact Hours: 0 + 6  
Crosslisted with: JPC A224.  
Special Fees.  
Basic principles including camera functions and the utilization of these functions for artistic expression through the processing and printing of black and white film.

ART A252  Beginning Graphic Design and Illustration  3 CR  
Contact Hours: 0 + 6  
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.  
Special Fees.  
Special Note: May be repeated for credit.  
Idea development and problem solving skills for the commercial market. Intoduction 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.  
Special Fees.  
Origins and development of painting, sculpture, and architecture. Covers the history of art from prehistory through the Medieval Period emphasizing art of the Western World.

ART A262  History of World Art II  3 CR  
Contact Hours: 3 + 0  
Prerequisites: ENGL A111.  
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.  
Special Fees.  
Origins and development of painting, sculpture, and architecture. The course covers the history of art from the Renaissance through the modern period with emphasis on the art of the Western World.

ART A271  Beginning Surface Design  3 CR  
Contact Hours: 0 + 6  
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.  
Stacked with: ART A371 and ART A471.  
Special Note: May be repeated for credit.  
Introduction to resist dyeing processes using directly applied resists (wax, rice paste) in designing and patterning the art fabric surface.

ART A272  Beginning Fiber Structures  3 CR  
Contact Hours: 0 + 6  
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.  
Stacked with: ART A372 and ART A472.  
Special Note: May be repeated for credit.  
Introduction to hand constructed textiles, adapting traditional methodology to the production of contemporary art.

ART A273  Beginning Woven Forms  3 CR  
Contact Hours: 0 + 6  
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.  
Stacked with: ART A373 and ART A473.  
Special Note: May be repeated for credit.  
Introduction to European floor loom. Various on-loom techniques are utilized in the production of the art fabric.  

http://www.uaa.alaska.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credit Hours</th>
<th>Contact Hours</th>
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<tbody>
<tr>
<td>ART A301</td>
<td>Intermediate Handbuilt Ceramics</td>
<td>3 CR</td>
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<td>Contact Hours: 0 + 6</td>
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<td>Prerequisites: ART A202.</td>
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<td>Stacked with: ART A401.</td>
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<td>Special Note: May be repeated once for credit.</td>
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<td></td>
<td>Continued and intensified development of handbuilding forming methods with more emphasis on form, content, and creative problem solving. Includes all forming methods, low fire through high fire clay bodies, slips, glazes, and firing techniques.</td>
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<td>ART A302</td>
<td>Intermediate Wheelthrown Ceramics</td>
<td>3 CR</td>
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<td>Contact Hours: 0 + 6</td>
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<td>Prerequisites: ART A202.</td>
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<td>Stacked with: ART A402.</td>
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<td>Special Note: May be repeated once for credit.</td>
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<td></td>
<td>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.</td>
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<td>ART A305</td>
<td>Advanced Drawing</td>
<td>3 CR</td>
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<td>Contact Hours: 0 + 6</td>
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<td>Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.</td>
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<td>Stacked with: ART A105, ART A205, and ART A405.</td>
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<td>Special Note: May be repeated for credit.</td>
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<td></td>
<td>Development and refinement of individual problems in drawing.</td>
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<td>ART A307</td>
<td>Life Drawing and Composition</td>
<td>3 CR</td>
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<td>Contact Hours: 0 + 6</td>
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<td>Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.</td>
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<td>Stacked with: ART A356.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated for credit.</td>
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<td></td>
<td>Drawing from live models to explore possibilities in design composition. Emphasizes form and space using charcoal, pen, brush, and other media.</td>
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<tr>
<td>ART A309</td>
<td>Intermediate Metalsmithing and Jewelry</td>
<td>3 CR</td>
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<td>Contact Hours: 0 + 6</td>
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<td>Prerequisites: ART A105 and ART A409.</td>
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<td>Stacked with: ART A209 and ART A409.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated for credit.</td>
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<td></td>
<td>Further investigation of material processes and techniques for metalsmithing and jewelry with more emphasis on design.</td>
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<tr>
<td>ART A311</td>
<td>Intermediate Sculpture</td>
<td>3 CR</td>
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<td>Contact Hours: 0 + 6</td>
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<td>Prerequisites: ART A211.</td>
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<td>Stacked with: ART A211 and ART A411.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated for credit.</td>
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<td></td>
<td>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.</td>
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<td>ART A312</td>
<td>Intermediate Watercolor Painting</td>
<td>3 CR</td>
<td>0 + 6</td>
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<td>Contact Hours: 0 + 6</td>
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<td>Prerequisites: ART A212.</td>
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<td>Stacked with: ART A212 and ART A412.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated for credit.</td>
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<td></td>
<td>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.</td>
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<td>ART A313</td>
<td>Intermediate Painting</td>
<td>3 CR</td>
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<td>Stacked with: ART A213 and ART A413.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated for credit.</td>
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<td></td>
<td>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.</td>
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<td>ART A315</td>
<td>Intermediate Printmaking</td>
<td>3 CR</td>
<td>0 + 6</td>
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<td>Contact Hours: 0 + 6</td>
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<td>Prerequisites: 6 credits of ART A215.</td>
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<td>Stacked with: ART A215 and ART A415.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated for credit.</td>
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<td>Expands on processes with advanced and more critical applications of printmaking techniques. Continued development of individual creative concepts in image making is encouraged.</td>
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<td>ART A323</td>
<td>Color Photography</td>
<td>3 CR</td>
<td>0 + 6</td>
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<td>Contact Hours: 0 + 6</td>
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<td>Prerequisites: ART A224 or JPC A224.</td>
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<td>Crosslisted with: JPC A323.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated for credit.</td>
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<td></td>
<td>Advanced techniques in color transparencies, color negatives, and color printing.</td>
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<td>ART A324</td>
<td>Intermediate Photography</td>
<td>3 CR</td>
<td>0 + 6</td>
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<td>Contact Hours: 0 + 6</td>
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<td>Prerequisites: ART A224 or JPC A224.</td>
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<td>Crosslisted with: JPC A324.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated for credit.</td>
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<td>Further development of photographic skills. Includes photographic perception of awareness, ideas and concepts, and the ‘fine print’.</td>
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<td>ART A331</td>
<td>Experimental Photography</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 0 + 6</td>
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<td>Prerequisites: ART A352 or JPC A352.</td>
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<td>Crosslisted with: JPC A331.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated for credit.</td>
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<td></td>
<td>Exploration of various special effects and techniques. Emphasizes creativity using various photographic processes.</td>
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<tr>
<td>ART A352</td>
<td>Intermediate Graphic Design</td>
<td>3 CR</td>
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<td>Contact Hours: 0 + 6</td>
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<td>Prerequisites: ART A252.</td>
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<td>Stacked with: ART A452.</td>
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<td></td>
<td>Special Fees.</td>
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<td></td>
<td>Special Note: May be repeated for credit.</td>
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<tr>
<td></td>
<td>Applied problems in intermediate graphic design.</td>
<td></td>
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<tr>
<td>ART A353</td>
<td>Intermediate Illustration</td>
<td>3 CR</td>
<td>0 + 6</td>
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<tr>
<td></td>
<td>Contact Hours: 0 + 6</td>
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<td></td>
<td>Prerequisites: ART A252.</td>
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<td>Stacked with: ART A453.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated for credit.</td>
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<tr>
<td></td>
<td>Applied problems in intermediate illustration.</td>
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<tr>
<td>ART A355</td>
<td>Airbrush</td>
<td>3 CR</td>
<td>0 + 6</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 0 + 6</td>
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<td></td>
<td>Prerequisites: ART A205.</td>
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<td></td>
<td>Special Note: May be repeated once for credit.</td>
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<tr>
<td></td>
<td>Airbrush techniques. Includes use and maintenance of equipment, freehand masking techniques, and introduces photo retouching.</td>
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<tr>
<td>ART A356</td>
<td>Drawing for Illustration</td>
<td>3 CR</td>
<td>0 + 6</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 0 + 6</td>
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<td></td>
<td>Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated for credit.</td>
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<tr>
<td></td>
<td>Refinement of drawing skills from live models for application to illustration and graphic design projects.</td>
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<tr>
<td>ART A357</td>
<td>ComputerArt and Design</td>
<td>3 CR</td>
<td>0 + 6</td>
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<td></td>
<td>Contact Hours: 0 + 6</td>
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<td></td>
<td>Prerequisites: ART A105 and ART A111 and ART A205 and ART A261 and ART A262.</td>
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<td>Special Fees.</td>
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<td></td>
<td>Special Note: May be repeated once for credit.</td>
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<tr>
<td></td>
<td>Introduces techniques and tools pertinent to the graphic designer.</td>
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<tr>
<td>ART A358</td>
<td>Children’s Book Illustration</td>
<td>3 CR</td>
<td>0 + 6</td>
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<tr>
<td></td>
<td>Contact Hours: 0 + 6</td>
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<td></td>
<td>Special Note: May be repeated once for credit.</td>
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<tr>
<td></td>
<td>Techniques and materials. Course work includes conceptualization and composition of visuals for individual pages, book layout, discussion of market presentation and portfolio organization.</td>
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</tbody>
</table>

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<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART A362 History of Modern Art</td>
<td>3 CR</td>
<td>3 + 0</td>
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</tr>
<tr>
<td>Special Fees</td>
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<td></td>
<td>ART A262.</td>
</tr>
<tr>
<td>Development of mid to late 19th century and 20th century arts are placed within the social and cultural contexts of this period.</td>
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<tr>
<td>ART A363 History of Contemporary Art</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ART A262.</td>
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<tr>
<td>Special Fees</td>
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<tr>
<td>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.</td>
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<tr>
<td>ART A364 Italian Renaissance Art</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>Special Fees</td>
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<td></td>
<td>ART A261.</td>
</tr>
<tr>
<td>Renaissance art from early Florentine beginnings to the high Renaissance of Venice.</td>
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<tr>
<td>ART A365 Native Art of Alaska</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>Special Fees</td>
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<tr>
<td>Art forms of the Eskimo, Indian, and Aleut; prehistory to the present.</td>
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<tr>
<td>ART A366 History of Asian Art</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ART A261.</td>
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<tr>
<td>Special Fees</td>
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<tr>
<td>Visual arts of Asiatic culture; prehistoric to the present. This course surveys selected works of painting, sculpture, architecture and other visual arts in relation to the culture in which they were produced.</td>
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<tr>
<td>ART A367 History of Photography</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ART A261.</td>
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<tr>
<td>Special Fees</td>
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<tr>
<td>Evolution of photography; 1816 to the present. This course surveys style, approach, content and form of the major trends in Europe and America.</td>
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<tr>
<td>ART A371 Intermediate Surface Design</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>ART A271.</td>
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<tr>
<td>Special Fees</td>
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<td>ART A471.</td>
</tr>
<tr>
<td>Continued examination of resist dyeing as a culture-rooted art and its place in the contemporary fiber movement. Bound resists: Shibori, fold dyeing, Plangi and Tritik are utilized as the basis for individual expression and design resolution.</td>
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<tr>
<td>Special Fees</td>
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<td>ART A472.</td>
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<tr>
<td>Emphasis on advanced fiber textile such as paper and felt making as interpreted in a contemporary context.</td>
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<tr>
<td>ART A373 Intermediate Woven Forms</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>ART A273.</td>
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<tr>
<td>Special Fees</td>
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<td>ART A473.</td>
</tr>
<tr>
<td>Emphasis on advanced floor loom techniques for the production of contemporary art.</td>
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<tr>
<td>ART A392 Seminars and Selected Topics in Art</td>
<td>1-6 CR</td>
<td>1-6 + 0</td>
<td>ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.</td>
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<tr>
<td>Special Fees</td>
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<tr>
<td>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.</td>
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<tr>
<td>ART A401 Advanced Handbuilt Ceramics</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>ART A301.</td>
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<tr>
<td>Special Fees</td>
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<td>ART A301.</td>
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<tr>
<td>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.</td>
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<td>ART A402 Advanced Wheelthrown Ceramics</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>ART A302.</td>
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<td>Special Fees</td>
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<td>ART A302.</td>
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<tr>
<td>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.</td>
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<tr>
<td>ART A405 Experimental Drawing</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>ART A305.</td>
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<tr>
<td>Special Fees</td>
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<td>ART A305.</td>
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<tr>
<td>Investigate the development of ideas through experimentation with contemporary techniques and materials in drawing.</td>
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<tr>
<td>ART A409 Advanced Metalsmithing and Jewelry</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>ART A309.</td>
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<tr>
<td>Special Fees</td>
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<td>ART A309.</td>
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<tr>
<td>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.</td>
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<tr>
<td>ART A411 Advanced Sculpture</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>ART A311.</td>
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<tr>
<td>Special Fees</td>
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<td>ART A311.</td>
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<tr>
<td>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.</td>
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<tr>
<td>ART A412 Advanced Watercolor Painting</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>ART A312.</td>
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<tr>
<td>Special Fees</td>
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<td>ART A312.</td>
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<tr>
<td>Emphasis on advanced watercolor painting.</td>
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<tr>
<td>ART A413 Advanced Painting</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>ART A313.</td>
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<tr>
<td>Special Fees</td>
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<td>ART A313.</td>
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<tr>
<td>Emphasis on advanced watercolor painting.</td>
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<tr>
<td>ART A414 Senior Painting Projects</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>ART A413.</td>
</tr>
<tr>
<td>Special Fees</td>
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<td>ART A413.</td>
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<tr>
<td>Individual development of imagery and techniques.</td>
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<tr>
<td>ART A415 Advanced Printmaking</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>ART A315.</td>
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<tr>
<td>Special Fees</td>
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<td>ART A315.</td>
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<tr>
<td>Individual development of imagery and techniques.</td>
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http://www.uaa.alaska.edu
ART A418  Methods: Art in the Elementary School  3 CR
Contact Hours:  3 + 0
Prerequisites: EDSE A336.
Registration Restrictions: All General Education Requirements and admission to the School of Education.
Crosslisted with: ED A418.
Special Fees. Methods of teaching art principles, procedures and materials for the elementary school level. Explores a wide variety of art media basic to elementary art curricula. Students will be responsible for developing and evaluating curriculum activities.

ART A424  Advanced Photography  3 CR
Contact Hours:  0 + 6
Prerequisites: ART A324 or JPC A324.
Crosslisted with: JPC A424.
Special Fees. Special Note: May be repeated for credit. Development of images that reflect individual expression. Provides for individual portfolio development.

ART A442  Curriculum and Instruction in Secondary Art  3 CR
Contact Hours:  3 + 0
Prerequisites: ED A332 and ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Registration Restrictions: Admission to School of Education. Crosslisted with: ED A442.
Investigation, practice, and discussion of objectives, scope, sequence, evaluation and related readings dealing with teaching art at the secondary level.

ART A451  Internship/Graphic Design  1-6 CR
Contact Hours:  0 + 2-12
Registration Restrictions: Faculty permission. Special Note: May be repeated for a maximum of 12 credits. Internship position. Placement is dependent upon interest, expertise, prerequisites, and appropriateness to the position.

ART A452  Advanced Graphic Design  3 CR
Contact Hours:  0 + 6
Prerequisites: ART A352.
Stacked with: ART A352.
Special Fees. Special Note: May be repeated for credit. Applied problems in advanced graphic design.

ART A453  Advanced Illustration  3 CR
Contact Hours:  0 + 6
Prerequisites: ART A353 and ART A356.
Stacked with: ART A353.
Special Fees. Special Note: May be repeated for credit. Applied problems in advanced illustration.

ART A455  3-D Illustration  3 CR
Contact Hours:  0 + 6
Special Note: May be repeated once for credit. Study of the techniques related to three-dimensional illustration, collage, paper sculpture, stitches, fiber sculpture, and sculptural techniques.

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 FiberStructures  3 CR
Contact Hours:  0 + 6
Prerequisites: ART A372.
Stacked with: ART A272 and ART A372.
Special Note: May be repeated for credit. Development and refinement of individual problems in fiber structures with an emphasis on personalized imagery and techniques.

ART A473  Advanced Woven Forms  3 CR
Contact Hours:  0 + 6
Prerequisites: ART A373.
Stacked with: ART A273 and ART A373.
Special Note: May be repeated for credit. Further development of advanced loom weaving techniques and refinement of personal imagery and problems related to approaches to fiber art.

ART A495  Practicum  1-6 CR
Contact Hours:  0-2 + 0-12
Registration Restrictions: Minimum of 3 credits of 400-level course work in selected content area and approval of area coordinator. Special Note: A total of 6 credits may be applied toward a BA or BFA in Art degree.
Management and operation of art related environment for advanced students seeking a career in the arts. Provides marketable skills in material and building organization, mechanical operation, and operative student dynamics within a functioning art environment.

ART A498  Individual Research  1-6 CR
Contact Hours:  0-2 + 0-12
Registration Restrictions: Minimum of 6 credits of upper-division course work in selected content area and approval of area coordinator. Special Fees. Special Note: A total of 6 credits may be applied toward a BA or BFA in Art degree. May be repeated twice for credit in any content area. Individual art research focusing on professional development, conceptual growth and awareness, critical thinking, and/or advanced technical proficiency.

ART A499  Thesis  3 CR
Contact Hours:  0 + 6
Registration Restrictions: Permission of BFA committee. Grade Mode: Pass/No Pass. Special Note: May be repeated for a maximum of 6 credits. One person exhibition.

APPLIED STATISTICS - AS

http://www.math.uaa.alaska.edu
Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 154, 786-1742/4824
AS A252  Elementary Statistics  3 CR
Contact Hours:  3 + 0
Prerequisites: MATH A105 with minimum grade of C.
Registration Restrictions: If prerequisite is not satisfied, two years of high school algebra with grade of C or higher or Math Placement Test is required. Course Attributes: GER Quantitative Skills Requirement. Special Fees. Special Note: A student may apply no more than 3 credits from AS A252 or BA A273 toward the graduation requirements for a baccalaureate degree. Measurement, sampling, measures of central tendency, dispersion, position, frequency distributions, regression and correlation, probability, binomial and normal distributions, estimation, hypothesis testing, t-test, Chi-square, and F-distributions.

AS A253  Applied Statistics for the Sciences  4 CR
Contact Hours:  4 + 0
Prerequisites: MATH A107 or MATH A109.
Special Fees. Special Note: May not be used to satisfy the University Quantitative Skills General Education Requirement. Intensive survey course covering discrete data analysis, probability, random variables, sampling distributions, confidence intervals, hypothesis testing, one way and two way analysis of variance, simple regression, and other topics as time permits. A major statistical package is introduced and used for problem solving.

AS A307  Probability and Statistics  3 CR
Contact Hours:  3 + 0
Registration Restrictions: MATH A200 or MATH A272 with a grade of C or higher.
Course Attributes: GER Quantitative Skills Requirement. Probability, applied combinatorics, random variables, multivariate random variables, discrete distributions, continuous distributions, expectations, descriptive statistics, correlation and regression, estimation, and hypothesis testing.

AS A308  Intermediate Statistics  3 CR
Contact Hours:  3 + 0
Prerequisites: AS A252 or AS A307.
Introduction to statistical experimentation and research methods. Contingency tables and Chi-square tests of association and independence. Introduction to analysis of variance (ANOVA); one-way and two-way factorial designs. Multiple regression and correlation. Introduction to nonparametric methods including sign test, runs test, Mann-Whitney U-test, etc. A major statistical package is used as a tool to aid calculations required for many of the techniques. Each student is expected to complete a research project as part of the course requirement.
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

ASLA101 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.

ASLA102 Elementary American Sign Language II 3 CR
Contact Hours: 3 + 0
Prerequisites: ASLA101.
Course Attributes: GER Humanities Requirement.

Continuation of ASLA101, 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.

Astronomy - ASTR

http://local.uaa.alaska.edu/~ajftp/physics.html
Offered through the College of Arts and Sciences
Engineering Building (ENGR), Room 339, 786-1238

ASTR103 Introductory Astronomy I 4 CR
Contact Hours: 3 + 3
Registration Restrictions: High school algebra and trigonometry or equivalent.
Corequisite: ASTR A103.
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.

ASTR104 Introductory Astronomy II 4 CR
Contact Hours: 3 + 3
Prerequisites: ASTR 103.
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
http://www.uaa.alaska.edu/aviation/
Offered through the Community & Technical College
Aviation Technology Center, 2811 Merrill Field Drive, 264-7400

AT A053 Preventive Maintenance for Pilots and Owners 1-4 CR
Contact Hours: .5-.2 + 1-8
Grade Mode: Pass/No Pass.
Special Fees.
For pilots/owners to gain knowledge and experience in items of aircraft and engine maintenance that they may legally perform. Beneficial to people who intend to buy airplanes.

AT A100 Private Pilot Ground School 3 CR
Contact Hours: 3 + 0
Special Fees.
Registration Restrictions: Two hours in Flight Training Device required.
Prepares students for FAA Private Pilot Knowledge Test. Includes basic aeronautics, aircraft engine operation and flight, 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.
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 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 ACFTGround 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 ACFTElectrical 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 ACFTDC 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

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CR</th>
<th>CONTACT HOURS</th>
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<th>COREQUISITES</th>
<th>SPECIAL FEES</th>
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<tr>
<td>AT A174L</td>
<td>ACFTDC Electrical Systems Lab</td>
<td>1 CR</td>
<td>0 + 3</td>
<td>MATH A055 and (AT A170 or concurrent enrollment).</td>
<td>AT A174.</td>
<td>Special Fees.</td>
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<tr>
<td>AT A175</td>
<td>Drawing and Precision Measurement</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>(AT A170 or concurrent enrollment).</td>
<td>Registration Restrictions: Formal acceptance into AMT certificate or degree program.</td>
<td>Covers the theory and techniques involved in making and reading aircraft drawings and blueprints, along with precision measurement and use of blueprint information.</td>
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<tr>
<td>AT A176</td>
<td>ACFTMaterials and Processes I</td>
<td>2 CR</td>
<td>2 + 2</td>
<td>AT A170 or concurrent enrollment.</td>
<td>Special Fees.</td>
<td>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.</td>
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<tr>
<td>AT A177</td>
<td>Recip Engine Theory</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>PHYS A110 or concurrent enrollment) and (AT A170 or concurrent enrollment).</td>
<td>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.</td>
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<tr>
<td>AT A178</td>
<td>Turbine Engine Theory</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>PHYS A110 or concurrent enrollment) and (AT A170 or concurrent enrollment).</td>
<td>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.</td>
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<td>AT A181</td>
<td>Fuel Systems</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>AT A176 and AT A177 and AT A178.</td>
<td>AT A181L.</td>
<td>Covers aircraft fuels, fuel/air mixtures, basic fuel systems and fuel metering devices. Applications of fuels and fueling systems to aircraft and components of complex aircraft systems, such as tanks, valves, fuel lines, carburetors, fuel injection systems, turbochargers, and superchargers are included.</td>
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<td>Fuel Systems Lab</td>
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<td>AT A176 and AT A177 and AT A178.</td>
<td>AT A181.</td>
<td>Special Fees.</td>
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<tr>
<td>AT A183</td>
<td>ACFTElectrical Machinery</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>AT A173 and AT A174 and AT A174Land AT A175 and (AT A183L or concurrent enrollment) and (AT A184 or concurrent enrollment) and (AT A184L or concurrent enrollment).</td>
<td>Special Fees.</td>
<td>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.</td>
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<td>AT A183L</td>
<td>ACFTElectrical Machinery Lab</td>
<td>1 CR</td>
<td>0 + 2</td>
<td>AT A173 and AT A174 and AT A174Land AT A175 and (AT A183 or concurrent enrollment) and (AT A184 or concurrent enrollment) and (AT A184L or concurrent enrollment).</td>
<td>Includes disassembly, cleaning, non-destructive testing, measurement, lubrication, and assembly of engines.</td>
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<tr>
<td>AT A184</td>
<td>ACFTAC Electrical Systems</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>AT A174 and AT A174Land PHYS A110.</td>
<td>AT A184L.</td>
<td>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.</td>
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<tr>
<td>AT A184L</td>
<td>ACFTAC Electrical Systems Lab</td>
<td>1 CR</td>
<td>0 + 3</td>
<td>AT A174 and AT A174Land PHYS A110.</td>
<td>AT A184.</td>
<td>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.</td>
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<tr>
<td>AT A185</td>
<td>Sheet Metal Structures</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>AT A170 or concurrent enrollment).</td>
<td>AT A185L.</td>
<td>Covers the overhaul practices for aircraft internal combustion engines. Includes disassembly, cleaning, non-destructive testing, measurement, lubrication, and assembly of engines.</td>
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<tr>
<td>AT A185L</td>
<td>Sheet Metal Structures Lab</td>
<td>2 CR</td>
<td>0 + 5</td>
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<td>AT A185.</td>
<td>Special Fees.</td>
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<tr>
<td>AT A186</td>
<td>Non-Destructive Inspection Methods</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>AT A176.</td>
<td>AT A186L.</td>
<td>Covers inspection, fabrication and repair of aircraft sheet metal structures including the processes of bending, cutting, forming, drilling and riveting aluminum sheet metal parts.</td>
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<td>AT A186L</td>
<td>Non-Destructive Inspection Methods Lab</td>
<td>2 CR</td>
<td>0 + 5</td>
<td>AT A170 or concurrent enrollment).</td>
<td>AT A186.</td>
<td>Special Fees.</td>
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<td>AT A187</td>
<td>Recip Engine Overhaul</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>AT A172 and AT A175 and AT A177 and (AT A186 or concurrent enrollment).</td>
<td>AT A187L.</td>
<td>Covers the overhaul practices for aircraft internal combustion engines. Includes disassembly, cleaning, non-destructive testing, measurement, lubrication, and assembly of engines.</td>
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<tr>
<td>AT A187L</td>
<td>Recip Engine Overhaul Lab</td>
<td>2 CR</td>
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<td>AT A172 and AT A175 and AT A177 and (AT A186 or concurrent enrollment) or.</td>
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<td>Special Fees.</td>
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<tr>
<td>AT A200</td>
<td>Commercial Ground School</td>
<td>3 CR</td>
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| Contact Hours: 3 + 0  
Prerequisites: AT A116.  
Special Fees.  
Special Note: Two hours in Flight Training Device required.  
Preparation for FAACommercial 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 FAACommercial Pilot Practical Flight Test. |              |
| AT A231  | Search, Survival, and Rescue                                              | 3 CR         |
| Contact Hours: 3 + 3  
Prerequisites: AT A233.  
Deals with situations that develop from lost or downed aircraft. Survey of principles of survival in all types of climates, with emphasis on Arctic environments. Organizations for search and rescue with emphasis on systems and operational methods used in Alaska. |              |
| AT A232  | Aviation Navigation                                                        | 3 CR         |
| Contact Hours: 3 + 0  
Prerequisites: AT A100.  
Registration Restrictions: Private Pilot Certificate or higher rating.  
Earth’s surface and mapping, aeronautical charts, fundamentals of navigation, navigational calculations and theory, and operation of ground and airborne navigational equipment. Future trends in navigation. Review for certified pilots. |              |
| AT A233  | Aviation Safety                                                            | 3 CR         |
| Contact Hours: 3 + 0  
Registration Restrictions: Basic knowledge of aviation terminology.  
Survey of aviation safety to identify primary causes of aviation accidents.  
Develops and evaluates safety programs. Roles of national transportation safety board and other agencies. Future concepts in aviation safety. |              |
| AT A235  | Elements of Weather                                                        | 3 CR         |
| Contact Hours: 3 + 0  
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, phraseologies, and radio frequencies used in air-ground communications. Writes and decodes civil Notice to Airmen (NOTAMS) and operating positions in Flight Service Stations. |              |
| AT A241  | Control Tower Operations                                                  | 3 CR         |
| Contact Hours: 3 + 0  
Prerequisites: AT A143 and AT A147.  
Explains operating techniques of ATC airport facilities in visual and instrument conditions. Includes operations of airport lighting systems, proper phrasingology, 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.  
Employs hands-on time in the control tower simulator. Emphasizes real life ATC situations to develop techniques for the manipulation of air traffic during taxi, takeoff, and landing. |              |
| AT A242  | ATC Terminal Radar Procedures                                              | 3 CR         |
| Contact Hours: 3 + 0  
Prerequisites: AT A143 and AT A144 and AT A235.  
Explores radar theory fundamentals and system operation in air traffic control.  
Examines procedures of instrument traffic control in the terminal radar environment. |              |
| AT A242L | ATC Terminal Radar Procedures Lab                                         | 1 CR         |
| Contact Hours: 0 + 2  
Corequisite: AT A242.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Employs hands-on time in radar laboratory simulators to develop techniques for the separation, vectoring and speed control of air traffic in a terminal radar environment. |              |
| AT A243  | ATC Enroute Procedures                                                    | 3 CR         |
| Contact Hours: 3 + 0  
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.  
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 PowerSystems 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  | ACFTElectronic 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. |              |
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Special Fees</th>
<th>Registration Restrictions</th>
<th>Description</th>
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<tr>
<td>AT A274L</td>
<td>ACFTElectronic Systems Lab</td>
<td>1 CR</td>
<td>0 + 3</td>
<td>AT A183 and AT A183Land AT A184 and AT A184L</td>
<td>AT A274.</td>
<td>Special Fees.</td>
<td>Must hold a Commercial Pilot Certificate with Instrument Rating.</td>
<td>Provides practice in creating, operating, testing and troubleshooting of aircraft propeller systems.</td>
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<tr>
<td>AT A276</td>
<td>PropellerSystems</td>
<td>1 CR</td>
<td>1 + 1</td>
<td>AT A171 and AT A172 and AT A175 and AT A177 and AT A178.</td>
<td>Special Fees.</td>
<td>Covers the installation, operation, performance testing and troubleshooting of aircraft propeller systems.</td>
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<tr>
<td>AT A281L</td>
<td>ACFTMaterials and Processes II</td>
<td>2 CR</td>
<td>0 + 4</td>
<td>AT A172 and AT A176.</td>
<td>Special Fees.</td>
<td>Covers the installation, operation, performance testing and troubleshooting of bonded structures.</td>
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<tr>
<td>AT A290</td>
<td>Turbine Engine Installation and Operations</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>AT A183 and AT A183Land AT A276 and AT A279 and AT A279L</td>
<td>AT A289L.</td>
<td>Special Fees.</td>
<td>Provides practice in the installation, operation, performance testing and troubleshooting of aircraft turbine engines.</td>
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<tr>
<td>AT A301</td>
<td>CFI Flying</td>
<td>2 CR</td>
<td>1 + 2</td>
<td>AT A220 and (AT A300 or concurrent enrollment).</td>
<td>Special Fees.</td>
<td>Faculty permission required.</td>
<td>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.</td>
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<tr>
<td>AT A305</td>
<td>Additional Aircraft Rating</td>
<td>2 CR</td>
<td>1 + 2</td>
<td>(AT A220 or concurrent enrollment).</td>
<td>Special Fees.</td>
<td>Faculty permission required.</td>
<td>Prepares 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.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>AT A331</td>
<td>Human Factors in Aviation</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Restrictions: Certificate, degree or professional experience in</td>
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<td>Transport Aircraft Systems</td>
<td>3 CR</td>
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<td>Air Operations</td>
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<td>Air Service Operations</td>
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<td>AT A337</td>
<td>Airline Operations</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>AT A340</td>
<td>Terminal Instrument Procedures</td>
<td>3 CR</td>
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<td>Federal Aviation Administration</td>
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<td>Aerodynamics and Flight Performance</td>
<td>3 CR</td>
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<tr>
<td>AT A364</td>
<td>Avionics Systems</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Restrictions: Certificate, degree or professional experience in</td>
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<td>flight operations, flight operations, flight operations, flight operations.</td>
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<tr>
<td>AT A367</td>
<td>ACFT Assembly and Inspections</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Contact Restrictions: Certificate, degree or professional experience in</td>
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<td>flight operations, flight operations, flight operations, flight operations.</td>
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</table>

Course Descriptions

AT A331 Human Factors in Aviation
- Contact Hours: 3 + 0
- Registration Restrictions: AAS in aviation field or advanced airman certificate
- Students will become familiar with the following aspects of human factors: the meaning of human factors, human error, fatigue, body rhythms and sleep, fitness and performance, vision and visual illusions, motivation and leadership.
- Communication: language and speech, attitudes and persuasion, training and training devices, documentation, displays and controls, space and layout, the aircraft cabin and its human payload.

AT A332 Transport Aircraft Systems
- 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
- Contact Hours: 3 + 0
- Prerequisites: AT A102 and AT A134.
- Class Standing Restriction: Must be Junior.
- Examines the management and operations of civil airports. Emphasizes master planning, Federal Aviation Regulations (FAR'S) dealing with airport operations; environmental issues; land use planning; airport capacity delay and access factors; economics impacts; financial analyses and budgeting systems; security; liability; maintenance; professional qualification; and relations.

AT A336 Air Service Operations
- Contact Hours: 3 + 0
- Prerequisites: AT A120 and AT A134.
- Class Standing Restriction: Must be Junior.
- Examines the management and operations of civil airports. Emphasizes master planning, Federal Aviation Regulations (FAR'S) dealing with airport operations; environmental issues; land use planning; airport capacity delay and access factors; economics impacts; financial analyses and budgeting systems; security; liability; maintenance; professional qualification; and relations.

AT A337 Airline Operations
- Contact Hours: 3 + 0
- Prerequisites: AT A120 and AT A134.
- Class Standing Restriction: Must be Junior.
- Examines airline organization and management including classifications, management methods, governmental relationships, and financial positions. Examines airline operations, market research, demand determination, and effects of FAA regulations.

AT A340 Terminal Instrument Procedures
- 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
- 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
- Contact Hours: 3 + 0
- Prerequisites: MATH A107 and PHYS A123.
- Examines aerodynamics and flight performance: low and high speed aerodynamics, airplane performance, stability and control, and operating strength limitations.

AT A364 Avionics Systems
- Contact Hours: 3 + 0
- Prerequisites: ET A128 or [AT A274 and AT A274L].
- Examines the fundamentals of design, installation, operation, testing and maintenance of airborne communication, navigation, instrument, and auto flight systems.

AT A367 ACFT Assembly and Inspections
- Contact Hours: 4 + 0
- Prerequisites: AT A185 and AT A185L, AT A273 and AT A273L, AT A277 and AT A277L, AT A279 and AT A279L, 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.
- Special Fees.
- Examines the 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.

AT A367L ACFT Assembly and Inspections Lab
- Contact Hours: 0 + 6
- Prerequisites: AT A185 and AT A185L, AT A273 and AT A273L, AT A277 and AT A277L, AT A279 and AT A279L, 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.
- Special Fees.
- Provides practice in the 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
- Contact Hours: 3 + 0
- Registration Restrictions: Must hold a Commercial Pilot Certificate with Instrument Rating and comply with FAR Part 61.159.
- Examines the flight environment to justify the Go/No Go decision. Includes TERPS, ATC procedures, and attitude instrument flying. Covers CR series computer, cross-country flight planning, airplane performance, weight and balance, interpreting high altitude weather charts and forecast, and applicable FARs.

AT A401 ATP Flying
- Contact Hours: 1 + 2
- Prerequisites: (AT A400 or concurrent enrollment).
- Registration Restrictions: Must hold a Commercial Pilot Certificate with Instrument Rating and comply with FAR Part 61.159. Faculty permission required.
- Special Fees.
- Special Note: Open entry-open exit. Three hours in Frasca 242 Flight Training Device required.
- Fulfills FAA flight training requirements for obtaining an Airline Transport Pilot Certificate under FAR Part 141.

AT A405 Additional CFI Rating
- Contact Hours: 1 + 2
- Registration Restrictions: Certified Flight Instructor Certificate required. Faculty permission required.
- Special Note: Open entry-open exit.
- Examines 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
- 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
- Contact Hours: 3 + 0
- Registration Restrictions: Upper Division Standing
- Examines historical development and analyzes selected contemporary issues, problems, and trends facing the air transportation industry. Includes regulators and associations, the makeup of commercial and general aviation air transportation, and international aviation.
AT A431  Aircraft Accident Investigation  3 CR
Contact Hours:  3 + 0
Prerequisites: AT A233 and AT A331.
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 FAIM 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 autofocus 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.

BUSINESS ADMINISTRATION - BA

http://www.cbpp.alaska.edu/DEGREES/ba.html
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 A116  Travel Agency Planning and Sales  3 CR
Contact Hours:  3 + 0
Designed for beginning travel agents. Sale of airline tickets, design and tabulation of route costs, time changes, group and individual rates. Includes transfers, schedule outlines, use of airline rate and time schedules, reservations, interviewing, and sales techniques.

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 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 A150  Women in Business and Management  3 CR
Contact Hours:  3 + 0
Offered Fall and Spring Semesters.
Covers strategies of business women who want to gain upward mobility in organizations. Includes understanding organizational structure, opportunities in business organizations and how to prepare for them, office politics and communications, personal awareness, managerial skills, and introduction to personal finance.

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
Offered Fall and Spring Semesters.
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 condemnationary 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: JUSTA241.
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.
Offered as Demand Warrants.

Crosslisted with: JUSTA242.

Examines advertising role in today's complex society. Covers creation of both in domestic and international settings.

Prerequisites: BA A241 or JUSTA241.

A1 1 1, MATH A105 or A107 recommended.

Contact Hours: 3 + 0

Special Note: Course may be taken only once for credit.

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 A350
Marketing Research
Contact Hours: 3 + 0
Prerequisites: BA A273 and BA A343.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Offered as Demand Warrants.
A study of the influence of marketing research on the decision making process, effect on the executive who must use it, and uses and nuisances. Emphasis on the cost versus the value of information for decision making. Problem for formulation, exploratory research, research design, basic observations and sampling requirements, data analysis, interpretation, and reporting. Research projects are conducted on actual marketing problems.

BA A361
Human Resource Management
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 A373
Statistics for Business and Economics
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 A375
Holiday Management
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 A378
Management of Global Logistics
Contact Hours: 3 + 0
Prerequisites: (BA A377 or concurrent enrollment).
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Offered Fall Semesters.
Introduction to logistics supply chain concepts, structures, design, and management. Logistics supply chain processes, costs, and decisions.

BA A379
Transportation Management
Contact Hours: 3 + 0
Prerequisites: BA A378.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Offered Spring Semesters.
Structure and operating characteristics of the transportation sector. Transportation carrier modes. Procurement and use of transportation services.

BA A415
Purchasing Management
Contact Hours: 3 + 0
Prerequisites: BA A378 and BA A379.
Offered Fall Semesters.
Purchasing activities and cost management techniques. Acquisition of materials, products, and services.

BA A416
International Logistics and Transportation Management
Contact Hours: 3 + 0
Prerequisites: BA A378 and BA A379.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Offered Spring Semesters.

BA A417
Materials Management
Contact Hours: 3 + 0
Prerequisites: BA A378 and BA A379.
Warehouse location, design, and operations. Managing material flows. Packing issues.

BA A425
Advanced Corporate Financial Problems
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
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, efficiencies, problems and performance of financial institutions including banks, saving and loans associations, credit unions, investment companies, pension funds, endowment funds and trusts.

BA A427
International Finance
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-equit 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
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
Contact Hours: 3 + 0
Prerequisites: BA A343.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
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
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.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Registration Restrictions</th>
<th>Offered</th>
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<tr>
<td>BA A460</td>
<td>Marketing Management</td>
<td>3</td>
<td>3 + 0</td>
<td>Prerequisites: BA A363 and (BA A310 or BA A350).</td>
<td>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.</td>
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<td>BA A461</td>
<td>Negotiations and Conflict Management</td>
<td>3</td>
<td>3 + 0</td>
<td>Prerequisites: BA A363 and (BA A310 or BA A350).</td>
<td>Registration Restrictions: College of Business and 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.</td>
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<td>BA A462</td>
<td>Strategic Management</td>
<td>3</td>
<td>3 + 0</td>
<td>Prerequisites: BA A363 and (BA A310 or BA A350).</td>
<td>Registration Restrictions: College of Business and 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.</td>
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<td>BA A463</td>
<td>Promotion Management</td>
<td>3</td>
<td>3 + 0</td>
<td>Prerequisites: BA A363 and (BA A310 or BA A350).</td>
<td>Registration Restrictions: College of Business and 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.</td>
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<td>BA A481</td>
<td>Applications in Management</td>
<td>3</td>
<td>3 + 0</td>
<td>Prerequisites: BA A363 and (BA A310 or BA A350).</td>
<td>Registration Restrictions: College of Business and Public Policy majors must be admitted to upper-division standing. Offered Fall 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.</td>
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<tr>
<td>BA A488</td>
<td>The Environment of Business</td>
<td>3</td>
<td>3 + 0</td>
<td>Prerequisites: BA A363 and (BA A310 or BA A350).</td>
<td>Registration Restrictions: College of Business and 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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<td>BA A489</td>
<td>Entrepreneurship and New Business Planning</td>
<td>3</td>
<td>3 + 0</td>
<td>Prerequisites: BA A462.</td>
<td>Registration Restrictions: College of Business and 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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<td>BA A490</td>
<td>International Comparative Management</td>
<td>3</td>
<td>3 + 0</td>
<td>Prerequisites: BA A363 and (BA A310 or BA A350).</td>
<td>Registration Restrictions: College of Business and 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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<td>BA A495</td>
<td>Business Administration Internship</td>
<td>3</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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<td>BA A601</td>
<td>Business Statistics and Data Analysis</td>
<td>2</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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<td>BA A603</td>
<td>Fundamentals of Finance</td>
<td>3</td>
<td>3 + 0</td>
<td>Prerequisites: ACCT A601.</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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<td>BA A604</td>
<td>Marketing Management</td>
<td>3</td>
<td>3 + 0</td>
<td>Prerequisites: BA A601.</td>
<td>Registration Restrictions: Graduate Standing. Offered Fall 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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<td>BA A606</td>
<td>Fundamentals of Production/Operations Management</td>
<td>2</td>
<td>2 + 0</td>
<td>Prerequisites: BA A601.</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</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</td>
<td>3 + 0</td>
<td>Prerequisites: BA A601 or ESM A620.</td>
<td>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</td>
<td>3 + 0</td>
<td>Prerequisites: [BA A601 or ESM A620] and [BA A632 or ESM A601].</td>
<td>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>
<td></td>
</tr>
</tbody>
</table>
**Course Descriptions**

**BA A625 Marketing of Business Products and Services** 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing in the MBA or ESM programs.  
Crosslisted with: ESM A625.
Marketing of business products and business advisory services to organizational customers including government and institutions. Business marketing environment, strategic planning, segmentation, organizational buying behavior, product planning and innovation, pricing, promotion, and physical distribution. Relationship marketing, service quality, customer satisfaction and value creation, and negotiation. Issues in business ethics, global context, and professional services. Cases in business marketing.

**BA A631 Business Environment Analysis** 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Completion of MBA foundation course requirements and graduate standing. Offered Fall Semesters.
Introduction to the methodology of business environment scanning, analysis, and forecasting; survey of the current business environment. Impacts of globalization of competition and financial markets, technological change, changing political systems, regulation, demographics, social change, and other change factors on business. Examination of social responsibility, ethics, environmental protection and other accountability issues.

**BA A632 Organizational Behavior and Human Resource Management** 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing. Offered Fall and Spring Semesters.
A detailed interdisciplinary study of those organizational behavior and human resource structures which contribute centrally to the firm’s success. Current and future developments regarding key concepts such as motivation, leadership, power and authority, corporate dynamics and culture, selection and placement, performance appraisal, compensation and human development will be examined.

**BA A633 Problem Formulation and Decision Analysis** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ECON A602 and 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.

**BA A634 Creating the Successful Organization** 3 CR  
Contact Hours: 3 + 0  
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.

**BA A635 Current Marketing Issues Seminar** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: BA A604.  
Registration Restrictions: Graduate Standing. Offered Fall Semesters.
An analysis of the managerial relevance of current issues in marketing as found in the professional and/or popular marketing literature. A historical perspective will be provided through classic readings from the literature. Students will be expected to read, analyze, and discuss assigned readings in a seminar atmosphere with a view toward understanding the rationale of applied marketing management practices in such areas as theory, marketing mix, and ethics. The relation and role of marketing relative to other functional areas of the firm will be explored.

**BA A636 Financial Decision Making** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: BA A601 and BA A603.  
Registration Restrictions: Graduate Standing. Special Fees. Offered Fall Semesters.
Advanced financial analysis with focus on making effective financial decisions. Analysis of business finance cases.

**BA A652 International Comparison of Business Practices** 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.
A comparative study of the business philosophy, organization, management style, and business-society interaction in the major industrial nations. Specific study of the business systems of several of the following nations: Canada, France, Great Britain, Japan, People’s Republic of China, Russia, and Germany.

**BA A653 International Finance** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: BA A601 and BA A603.
A study of the international dimensions of international financial management, and the financial markets. It covers topics such as Eurocurrency and foreign exchange markets, exchange risk, international capital budgeting, multicurrency financing decisions and sources of finance, international capital and money markets.

**BA A655 Strategic Management Seminar** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: BA A631 and BA A632 and BA A635 and BA A636.  
Registration Restrictions: Graduate Standing. 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 A661 Supply Chain Strategic Planning** 6 CR  
Contact Hours: 6 + 0  
Registration Restrictions: Admission to the MS 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.

**BA A662 Supply Chain Knowledge Management** 6 CR  
Contact Hours: 6 + 0  
Registration Restrictions: Admission to the MS Global Supply Chain Management program.
Study of techniques for managing the information system used within the community of practitioners operating in the global supply chain.

**BA A663 Supply Chain Marketing Strategies** 6 CR  
Contact Hours: 6 + 0  
Registration Restrictions: Admission to the MS Global Supply Chain Management program.
Study of marketing functions within organizations that source, produce, distribute, and/or market in multiple nations and complete in a global arena. Addresses synchronization of marketing strategy and the supply chain.

**BA A664 Supply Chain Management Leadership** 6 CR  
Contact Hours: 6 + 0  
Registration Restrictions: Admission to the MS Global Supply Chain Management program.
Study of leadership and negotiating skills appropriate to the supply chain manager.

**BA A665 Supply Chain Measurement** 6 CR  
Contact Hours: 6 + 0  
Registration Restrictions: Admission to the MS Global Supply Chain Management program.
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.

**BA A678 Strategic Logistics and Global Supply Chain Management** 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Completion of MBA foundation course requirements. Graduate standing or instructor’s permission.
Introductory study of the roles logistics and supply chain management play in a company’s strategic planning in both domestic and global markets, for the MBA generalist.
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 C074  Biological Sciences - BIOL
http://www.uaa.alaska.edu/biomed/
The WWAMI/Biomedical program may be found at http://www.uaa.alaska.edu/biomed/
Offered through the College of Arts and Sciences
Engineering Building (ENGR), Room 340, 786-4770

BIOL A074  Field Natural History  1-3 CR
Contact Hours: 0 + 3-9
Grade Mode: Pass/No Pass.
Special Note: Field trips in any weather; walking through rough terrain is routine.
May have overnight field trips. May be repeated for credit with a change of subtitle. Check schedules for specific offerings.
A short course on field natural history. Covers major plant and animal species of area. Experience gained in location and identification. May include extensive hiking and camping.

BIOL A075  Local Flora  1 CR
Contact Hours: 0 + 3
Grade Mode: Pass/No Pass.
Special Note: May include preparation of pressed plant specimens and field trips.
Study of wild flowers and plants in the surrounding locale with emphasis on use and identification.

BIOL A100  Human Biology  3 CR
Contact Hours: 3 + 0
Special Note: Primarily for non-science majors. Not accepted for GER or biology major baccalaureate credit.
Survey of biological principles as applied to human anatomy, physiology, and genetics.

BIOL 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: GEOA 104.
Special Note: Acceptable as elective credit only.
Surveys important biological, physical and geological features of Alaska, and their development over time. Includes study of major landforms, ecosystems, wildlife and people. Local area will be emphasized.

BIOL A105  Fundamentals of Biology I  4 CR
Contact Hours: 3 + 3
Prerequisites: (CHEM A105 or concurrent enrollment) and (CHEM A105L or concurrent enrollment).
Registration Restrictions: One year of high school biology, one year of high school chemistry, and working knowledge of the metric system.
Corequisite: BIOL A105L.
Course Attributes: GER Natural Sciences w/ Lab.
Special Fees.
Special Note: One 3-hour lab per week. BIOL A105 and BIOL A106 are core courses in biology and are prerequisite to most courses in biological sciences.
A survey of biodiversity, ecology, origin of life, and cell structure and function in the context of evolution.

BIOL A106  Fundamentals of Biology II  4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A105 and [CHEM A105 and CHEM A105L] and [CHEM A106 and CHEM A106L or concurrent enrollment].
Corequisite: BIOL A106L.
Course Attributes: GER Natural Sciences w/ Lab.
Special Note: One 3-hour lab per week. BIOL A105 and BIOL A106 are core courses in biology and are prerequisite to further courses in biological sciences.
Continuation of topics addressed in BIOL A105, with emphasis on molecular biology, genetics, and homoeostasis in the context of evolution.

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
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 degree programs. One 3-hour lab per week.
A continuation of BIOL A111. The circulatory, respiratory, digestive, excretory, reproductive and immune systems are considered.

BIOL A113  Lectures in Human Anatomy and Physiology I  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Current Alaska registered nurse license and permission of both the associate dean of nursing and the course instructor.
BIOL A113 is the lecture portion of BIOL A111 without the laboratory.

BIOL A114  Lectures in Human Anatomy and Physiology II  3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A111 or BIOL A113.
Registration Restrictions: Current Alaska registered nurse license and permission of both the associate dean of nursing and the course instructor.
A continuation of BIOL A113. BIOL A114 is the lecture portion of BIOL A112 without the laboratory.

BIOL A124  Biota of Alaska: Selected Topics  1-4 CR
Contact Hours: 1-4 + 0
Special Fees.
Special Note: Community service course.
Explores special features of birds, mammals, insects or plants. Can include life history, habitat, ecology and behavior.

BIOL A126  Birds in Field and Laboratory  2 CR
Contact Hours: 1 + 3
Special Note: Community service course.
Field trips, study projects, lectures and laboratories form a beginning course in bird study. General biology, ecology and behavior of birds. Emphasis on characteristics, observation, and recording information about birds in Alaska and other areas.

BIOL A150  Introduction to Marine Biology  4 CR
Contact Hours: 3 + 3
Special Note: Community service course.
An elementary course in marine natural history with emphasis on intertidal invertebrates and algae. Other topics will include seabirds, marine mammals, fish, bottom organisms, and plankton.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIOL A201</strong></td>
</tr>
<tr>
<td>Contact Hours: 2 + 3</td>
</tr>
<tr>
<td>Offered only at Kenai Peninsula College.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>BIOL A240</strong></td>
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<tr>
<td>Contact Hours: 3 + 3</td>
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<tr>
<td>Corequisite: BIOL A240L.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>General introductory microbiology and virology with emphasis on those areas relating to health sciences, including host parasite interactions, host defense mechanisms, and epidemiology.</td>
</tr>
<tr>
<td><strong>BIOL A241</strong></td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>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 A240L or BIOL A240 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.</td>
</tr>
<tr>
<td><strong>BIOL A242</strong></td>
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<tr>
<td>Contact Hours: 3 + 3</td>
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<tr>
<td>Corequisite: BIOL A242L.</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<td><strong>BIOL A252</strong></td>
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<tr>
<td>Contact Hours: 3 + 3</td>
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<tr>
<td>Corequisite: BIOL A252L.</td>
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<tr>
<td><strong>BIOL A292</strong></td>
</tr>
<tr>
<td>Contact Hours: 1 + 0</td>
</tr>
<tr>
<td>Offered only at Kenai Peninsula College.</td>
</tr>
<tr>
<td><strong>BIOL A308</strong></td>
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<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>BIOL A309</strong></td>
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<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Ecological basis and historical patterns of the distribution of plants and animals on a worldwide basis. Current theories regarding the origin of these distributions are examined.</td>
</tr>
<tr>
<td><strong>BIOL A310</strong></td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Special Note: Satisfies physiology core curriculum requirement for biology majors. Cellular and system physiology of animals, with emphasis on vertebrate physiology.</td>
</tr>
<tr>
<td><strong>BIOL A327</strong></td>
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<tr>
<td>Contact Hours: 3 + 3</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td><strong>BIOL A331</strong></td>
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<tr>
<td>Contact Hours: 3 + 3</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td><strong>BIOL A333</strong></td>
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<tr>
<td>Contact Hours: 3 + 3</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td><strong>BIOL A334</strong></td>
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<tr>
<td>Contact Hours: 3 + 3</td>
</tr>
<tr>
<td>Offered Alternate spring semesters. Comparative study of morphology, developmental anatomy, phylogenetic trends, and life histories of the major groups of vascular plants.</td>
</tr>
<tr>
<td><strong>BIOL A340</strong></td>
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<tr>
<td>Contact Hours: 3 + 6</td>
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<tr>
<td>Registration Restrictions: 8 additional biology credits.</td>
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<tr>
<td>Special Note: Two 3-hour labs per week. Core course for BS biology majors. Offered spring semesters.</td>
</tr>
<tr>
<td><strong>BIOL A352</strong></td>
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<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Special Note: Offered as warranted by demand.</td>
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<tr>
<td><strong>BIOL A371</strong></td>
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<tr>
<td>Contact Hours: 3 + 3</td>
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<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td><strong>BIOL A373</strong></td>
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<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Advanced environmental biology dealing with human population growth and the impact on environmental degradation and resource depletion.</td>
</tr>
</tbody>
</table>
### BIOL A375 Terrestrial Ecosystems 3 CR
- Contact Hours: 3 + 0
- Prerequisites: BIOL A371.
  - Ecosystem structure will be analyzed, including vegetation physiognomy attributes, species diversity and trophic structure. Ecosystem distribution will be studied in relation to climate and edaphic factors. Processes such as stand photosynthesis, soil organic matter decomposition, and soil nutrient uptake will be related to abiotic variables.

### 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 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 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 systematics, morphology, physiology, ecology, evolution, behavior, and conservation.

### BIOL A426 Ornithology 4 CR
- Contact Hours: 3 + 3
- Prerequisites: BIOL A252.
  - Special Fees.
  - Survey of the class Aves, emphasizing systematics, structure, physiology, ecology, evolution, behavior, and conservation.

### BIOL A427 Invertebrate Zoology 4 CR
- Contact Hours: 3 + 3
- Prerequisites: BIOL A252.
  - Special Note: Includes field trips.
  - Functional anatomy and evolutionary adaptations of invertebrate animals.

### BIOL 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.
  - 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 Immunology 3 CR
- Contact Hours: 3 + 3
- Prerequisites: BIOL A106 and CHEM A321.
  - Crosslisted with: CHEM A471.
  - Special Fees.
  - A study of the immune response including the biochemistry of antibodies, cellular and molecular events triggered by antigenic stimulation, regulation, immunopathology, transplantation, cancer and immunochemical techniques.

### BIOL A475 Arctic Tundra Ecosystems 3 CR
- Contact Hours: 3 + 0
- Prerequisites: BIOL A371.
  - Stacked with: BIOL A675.
  - In-depth consideration of the Arctic landscape, its biota, and adaptations to environmental conditions. Understanding of ecological principals required.
  - Examines the unique aspects of Arctic ecology and the relationship of Arctic ecosystems to global environmental issues and to the biosphere.

### BIOL A476 Boreal Ecosystems 3 CR
- Contact Hours: 3 + 0
- Prerequisites: BIOL 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Registration Restrictions</th>
<th>Special Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL A488</td>
<td>Developmental Biology</td>
<td>4</td>
<td>3 + 3</td>
<td></td>
<td>Program Director and faculty approval</td>
<td></td>
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<tr>
<td>BIOL A492</td>
<td>Undergraduate Seminar</td>
<td>1</td>
<td>1 + 0</td>
<td></td>
<td>Special Fees</td>
<td></td>
</tr>
<tr>
<td>BIOL A495</td>
<td>Instructional Practicum: Laboratory</td>
<td>1</td>
<td>0 + 3</td>
<td></td>
<td>Special Fees</td>
<td></td>
</tr>
<tr>
<td>BIOL A498</td>
<td>Individual Research</td>
<td>1-6</td>
<td>0 + 3-18</td>
<td>Faculty permission required</td>
<td>Special Fees</td>
<td></td>
</tr>
<tr>
<td>BIOL A610</td>
<td>Microscopic Anatomy</td>
<td>3</td>
<td>2 + 3</td>
<td></td>
<td>Program Director and faculty approval</td>
<td>Special Fees</td>
</tr>
<tr>
<td>BIOL A611</td>
<td>Gross Anatomy I and Embryology</td>
<td>5</td>
<td>3 + 6</td>
<td></td>
<td>Program Director and faculty approval</td>
<td>Crosslisted with: BIOM A611</td>
</tr>
<tr>
<td>BIOL A612</td>
<td>Mechanisms in Cell Physiology</td>
<td>4</td>
<td>4 + 0</td>
<td></td>
<td>Program Director and faculty approval</td>
<td>Crosslisted with: BIOM A612</td>
</tr>
<tr>
<td>BIOL A614</td>
<td>Biochemistry I</td>
<td>4</td>
<td>4 + 0</td>
<td></td>
<td>Program Director and faculty approval</td>
<td>Crosslisted with: BIOM A614</td>
</tr>
<tr>
<td>BIOL A620</td>
<td>Cell and Tissue Responses to Injury</td>
<td>4</td>
<td>3 + 3</td>
<td></td>
<td>Program director and faculty approval</td>
<td>Crosslisted with: BIOM A620</td>
</tr>
<tr>
<td>BIOL A621</td>
<td>Microbiology and Infectious Disease I</td>
<td>5</td>
<td>5 + 0</td>
<td></td>
<td>Program Director and faculty approval</td>
<td>Crosslisted with: BIOM A621</td>
</tr>
<tr>
<td>BIOL A623</td>
<td>Introduction to Immunology</td>
<td>2</td>
<td>2 + 0</td>
<td></td>
<td>Program Director and faculty approval</td>
<td>Crosslisted with: BIOM A623</td>
</tr>
<tr>
<td>BIOL A631</td>
<td>Gross Anatomy II</td>
<td>4</td>
<td>4 + 0</td>
<td></td>
<td>Program Director and faculty approval</td>
<td>Crosslisted with: BIOM A631</td>
</tr>
<tr>
<td>BIOL A632</td>
<td>Nervous System</td>
<td>5</td>
<td>5 + 0</td>
<td></td>
<td>Program Director and faculty approval</td>
<td>Crosslisted with: BIOM A632</td>
</tr>
<tr>
<td>BIOL A645</td>
<td>Advanced Herbivore Ecology</td>
<td>4</td>
<td>3 + 3</td>
<td></td>
<td>Program Director and faculty approval</td>
<td>Stacked with: BIOL A445</td>
</tr>
</tbody>
</table>

Contact Hours and Credits: These are standard units of measurement for course load. Contact hours typically indicate the amount of time a student is expected to spend on academic activities, including lectures, discussions, and self-study. Credits reflect the academic rigor and depth of the course.

Prerequisites: These are courses or qualifications that a student must complete before enrolling in a particular course. They ensure that students have the necessary background knowledge to succeed.

Registration Restrictions: These conditions, such as specific academic standing or program admission, must be met to register for the course. They are typically enforced to maintain academic standards and to ensure that all students are adequately prepared.

Special Fees: These are additional costs associated with a course, such as laboratory fees or special equipment expenses. They are often required due to the nature of the course or the materials needed.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL A648</td>
<td>Ecological Modeling</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: BIOL A371 and MATH A201, Registration Restrictions: Graduate Standing, Special Fees. Examination of the methods used to model ecological and biological processes. Topics include a review of modeling paradigms, mathematical modeling techniques, parameter estimation, and model validation and verification.</td>
<td></td>
</tr>
<tr>
<td>BIOL A650</td>
<td>Advanced Microbial Ecology</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: BIOL A340.</td>
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<tr>
<td></td>
<td>Stacked with: BIOL A450.</td>
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<tr>
<td></td>
<td>Advanced exploration of the diversity of the microbial world; the role of microorganisms in the cycling of elements in soils, lakes, and oceans; bacterial consumption and production of trace gases; geomicrobiology; symbioses.</td>
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</tr>
<tr>
<td>BIOL A661</td>
<td>Advanced Molecular Biology</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Registration Restrictions: Graduate Standing. Stacked with: BIOL A461. Special Note: Lectures concurrent with BIOL A461. In addition to meeting all requirements for BIOL A461, graduate students will be required to research the literature on a current topic in molecular biology, to submit an extensive paper summarizing their findings including designs for future experiments on the subject, and to give a seminar on the same topic. Not available for credit to students who have completed BIOL A461. A study of molecular biology, with emphasis on molecular genetics and the molecular biology of eukaryotic cells and cancer cells, including current developments in the field.</td>
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<tr>
<td>BIOL A662</td>
<td>Advanced Virology</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: BIOL A340.</td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate Standing. Stacked with: BIOL A462. Special Note: Lectures concurrent with BIOL A462. In addition to meeting all requirements for BIOL A462, graduate students will be required to research the literature on a current topic in molecular virology, prepare a research proposal summarizing their findings and describing an avenue of future research, and orally defend the research proposal. Not available for credit to students who have completed BIOL A462. An in-depth examination of virus structure, gene expression, and replication, using selected bacterial, plant, and animal viruses; response of host cells to infection; control of virus replication via chemotherapeutic agents; and virus evolution. An understanding of cell biology is required.</td>
<td></td>
</tr>
<tr>
<td>BIOL A663</td>
<td>Molecular Biology of Cancer</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: BIOL A461.</td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate Standing. A study of the molecular biology of cancer, with emphasis on the mechanisms by which a normal cell becomes a malignant cell, including the role of both chemicals and viruses in carcinogenesis. The orientation of the course will be toward a study of current literature, by means of research, term papers, discussions, and seminars.</td>
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</tr>
<tr>
<td>BIOL A668</td>
<td>Advanced Biogeochemistry</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Registration Restrictions: Graduate Standing. Stacked with: BIOL A468. Comprehensive exploration of the processes and reactions of the major chemical cycles in the atmosphere, lithosphere, hydrosphere, and terrestrial biosphere. Topics include biogeochemical cycling of carbon, nitrogen, phosphorus, and sulfur.</td>
<td></td>
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<tr>
<td>BIOL A672</td>
<td>Vegetation Analysis</td>
<td>4 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 3</td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate Standing. Special Fees. Covers methods of measuring, describing and classifying vegetation. Includes: 1) plot and pointless sampling methods, 2) relevé, 3) community and ecosystem classification, 4) ordination and statistical analysis, 5) vegetation mapping, 6) vegetation structure, vegetation as habitat for animals, 7) cover/dominance, 8) species diversity, and 9) aerial photography and remote sensing as applied to landscape classification.</td>
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<tr>
<td>BIOL A675</td>
<td>Advanced Arctic Tundra Ecosystems</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: BIOL A371.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Registration Restrictions: Graduate Standing. Stacked with: BIOL A475. In-depth consideration of the Arctic landscape, its biota, and adaptations to environmental conditions. Advanced understanding of ecological principles is required. Examines the unique aspects of Arctic ecology and the relationships of Arctic ecosystems to global environmental issues and to the biosphere.</td>
<td></td>
</tr>
<tr>
<td>BIOL A676</td>
<td>Advanced Boreal Ecosystems</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: BIOL A371.</td>
<td></td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate Standing. Stacked with: BIOL A476. 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.</td>
<td></td>
</tr>
<tr>
<td>BIOL A679</td>
<td>Physiological Plant Ecology</td>
<td>4 CR</td>
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<td></td>
<td>Contact Hours: 3 + 3</td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate Standing. Special Fees. Analyzes interactions between the plant and its environment. Deals with acquisition of resources, both energy and matter. Radiation interception and energy dissipation will be analyzed using energy balance equations. The nature of low and high temperature stress and adaptations to deal with these will be described.</td>
<td></td>
</tr>
<tr>
<td>BIOL A685</td>
<td>Advanced Topics in Biology</td>
<td>1-5 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1-5 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate Standing. Stacked with: BIOL A485. Special Fees. Special Note: May be repeated for credit with a change of subtitle. Intensive studies on narrowly defined topics in biological sciences. Emphasis on content as well as on instructional techniques.</td>
<td></td>
</tr>
<tr>
<td>BIOL A692</td>
<td>Graduate Seminar</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1 + 0</td>
<td></td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate Standing. Grade Mode: Pass/No Pass. Special Fees. Special Note: May be repeated for a maximum of 2 credits. Topical subjects in biology presented by graduate students, biology faculty, and guest speakers.</td>
<td></td>
</tr>
<tr>
<td>BIOL A698</td>
<td>Directed Research</td>
<td>1-6 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 0 + 3-18</td>
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<tr>
<td></td>
<td>Registration Restrictions: Permission of graduate advisor. Grade Mode: Pass/No Pass. Special Fees. Special Note: May be repeated for a maximum of 12 credits. Thesis specific research for the MS degree. Topic for study to be approved and directed by a faculty member in biological sciences.</td>
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<tr>
<td>BIOL A699</td>
<td>Thesis</td>
<td>1-6 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 0 + 3-18</td>
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<tr>
<td></td>
<td>Registration Restrictions: Permission of graduate advisor. Special Fees. Special Note: May be repeated for a maximum of 12 credits in combination with BIOL A698 (both courses not to exceed 12 credits). Planning, preparation, and completion of thesis for the MS degree in the biological sciences.</td>
<td></td>
</tr>
</tbody>
</table>

**BIOMEDICAL PROGRAM - BIOM**

http://www.uaa.alaska.edu/biomedical/

Offered through the College of Arts and Sciences Engineering Building (ENGR), Room 331, 786-4789

**BIOM A610  Microscopic Anatomy**  3 CR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOM A610</td>
<td>Microscopic Anatomy</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Registration Restrictions: Admission to Biomedical Program-WWAMI. Grade Mode: Pass/No Pass. Crosslisted with: BIOL A610. Lectures and laboratories in microscopic anatomy are designed to provide the principles and concepts of histology, to define the morphological characteristics of the cells, tissues, and organs of the human body, and to relate this information to functional processes studied in concurrent and subsequent courses.</td>
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</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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</tr>
<tr>
<td>BIOM A611</td>
<td>Gross Anatomy I and Embryology</td>
<td>5</td>
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<tr>
<td>BIOM A612</td>
<td>Mechanisms in Cell Physiology</td>
<td>4</td>
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<tr>
<td>BIOM A613</td>
<td>Introduction to Clinical Medicine I</td>
<td>4</td>
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<tr>
<td>BIOM A614</td>
<td>Biochemistry I</td>
<td>4</td>
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<tr>
<td>BIOM A620</td>
<td>Cell and Tissue Responses to Injury</td>
<td>4</td>
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<tr>
<td>BIOM A621</td>
<td>Microbiology and Infectious Disease I</td>
<td>5</td>
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<tr>
<td>BIOM A622</td>
<td>Introduction to Clinical Medicine II</td>
<td>4</td>
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<tr>
<td>BIOM A623</td>
<td>Introduction to Immunology</td>
<td>2</td>
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<tr>
<td>BIOM A630</td>
<td>Epidemiology</td>
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<tr>
<td>BIOM A631</td>
<td>Gross Anatomy II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>(Head, Neck, Ear, Nose, and Throat)</td>
<td></td>
</tr>
<tr>
<td>BIOM A632</td>
<td>Nervous System</td>
<td>5</td>
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<tr>
<td>BIOM A634</td>
<td>Microbiology and Infectious Disease II</td>
<td>3</td>
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<tr>
<td>BIOM A650</td>
<td>Systems of Human Behavior I</td>
<td>3</td>
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<tr>
<td>CULINARY ARTS - CA</td>
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<tr>
<td>Offered through the Community &amp; Technical College</td>
<td></td>
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</tr>
<tr>
<td>Lucy Cuddy Center (CUDY), Room 126, 786-4728</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CA A102 Nutrition</td>
<td>3</td>
<td>Contact Hours: 3 + 0</td>
</tr>
</tbody>
</table>

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Corequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA A103</td>
<td>Culinary Skill Development</td>
<td>4 CR</td>
<td>0 + 12</td>
<td>Contact: 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.</td>
<td>CA A101, CA A202. Special Fees.</td>
</tr>
<tr>
<td>CA A104</td>
<td>Sanitation</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact: 2 + 0</td>
<td>Contact: 2 + 2. Special Fees.</td>
</tr>
<tr>
<td>CA A105</td>
<td>Principles of Food Science</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>Contact: 2 + 2</td>
<td>Contact: 2 + 2. Special Fees.</td>
</tr>
<tr>
<td>CA A107</td>
<td>Culinary Cost Control</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact: 2 + 0</td>
<td>Contact: 2 + 0. Special Fees.</td>
</tr>
<tr>
<td>CA A110</td>
<td>Quantity Food Purchasing</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact: 2 + 0</td>
<td>Contact: 2 + 0. Special Fees.</td>
</tr>
<tr>
<td>CA A111</td>
<td>Bakery Skill Development</td>
<td>4 CR</td>
<td>0 + 12</td>
<td>Contact: 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.</td>
<td>CA A103. Special Fees.</td>
</tr>
<tr>
<td>CA A113</td>
<td>Culinary Meats and Charcuterie</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact: 3 + 0</td>
<td>Contact: 3 + 0. Special Fees.</td>
</tr>
<tr>
<td>CA A114</td>
<td>Beverages</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact: 2 + 0</td>
<td>Contact: 2 + 0. Special Fees.</td>
</tr>
<tr>
<td>CA A115</td>
<td>Gourmet Cooking, Healthy Style</td>
<td>1 CR</td>
<td>0 + 2</td>
<td>Contact: 0 + 2</td>
<td>Contact: 0 + 2. Special Fees.</td>
</tr>
</tbody>
</table>

**Course Descriptions**

**CA A201** A la Carte Kitchen 4 CR
Contact Hours: 0 + 12
Prerequisites: CA A103 with minimum grade of C and CA A111 with minimum grade of C.
Corequisite: CA A202. Special Fees.
Introduces student to a la carte foodservice. Emphasis on a la minute methods of food preparation. Industry vocabulary, operations, timing, organization, 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
Special Fees.
Registration Restrictions: Recommended experience in foodservice operations.
Special Note: Students planning to take the dietary managers certificate exam must enroll concurrently in CA A259A.
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 A222** Advanced Foods: Buffet and Garde Manger 3 CR
Contact Hours: 2 + 8
Prerequisites: CA A201 and CA A202.
Special Fees.
Menu planning, organization and production techniques necessary for buffet-style service. Student will also be exposed to ice carving, tallow and dough sculpting, and preparation and presentation of terrines, pates, appetizers and display pieces essential to buffet service.

**CA A224** Hospitality Service 3 CR
Contact Hours: 1 + 6
Special Fees.
Special Note: Specific uniform required.
Examination, instruction, demonstration, and practice of the many ways foods are presented and served to customers. Includes dining room service of all types, waiter/waitress responsibilities, merchandising of foods and services, tabletop topography, napkin folding, cutlery and tableside cookery to include flambé. Identification of glassware, serviceware, 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
Special Note: Students planning to take the dietary managers certificate exam must enroll concurrently in CA A295B.
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 A259A** 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 A220.
Grade Mode: Pass/No Pass.
Field experience course of 45 hours with 3 hours instructor contact. Assignments parallel topics in CA A230.
civil engineering - CE

http://www.engr.uaa.alaska.edu

offered through the school of engineering

Engineering Building (ENGR), Room 201, 786-1900

CE A394  Properties of Materials  3 CR
Contact Hours: 2 + 3
Prerequisites: ES A302 and [ES A331 or concurrent enrollment].
Corequisite: CE A334A.
Special Fees.
Offered Fall Semesters.
Experimental investigation of the properties of civil engineering materials and
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.

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.
Provides advanced theoretical and/or experiential learning in foodservice or
nutrition for the professional. Specific course content is determined by current
industry trends and student needs.

CA A495  Hospitality Internship  6 CR
Contact Hours: 2 + 4
Registration Restrictions: Completion of Culinary Core, Business Core, and
Hospitality Core.
Grade Mode: Pass/No Pass.
Special Note: Requires professional attire.
Provides supervised management training for capstone experience in selected
hospitality, hotel, and restaurant settings within the Alaskan hospitality industry.
Integrates knowledge and skills through applied work-based learning experience.
Requires minimum of 760 hours at work site plus 40 hours of related seminar
instruction.

CE A421  Foundation Analysis  3 CR
Contact Hours: 3 + 0
Prerequisites: CE A435.
Offered Spring Semesters.
Review of statically determinate beams and trusses. Discusses shear,
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: ES A341.
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE A603</td>
<td>Arctic Engineering</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td></td>
<td>Registration Restrictions: Graduate Standing.</td>
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<td></td>
<td>Special Fees.</td>
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<td></td>
<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>CE A620</td>
<td>Civil Engineering Construction</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: ESM A450.</td>
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<td>Special Fees.</td>
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<tr>
<td></td>
<td>Construction equipment and methods, construction management and accounting, construction estimates and costs.</td>
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</tr>
<tr>
<td>CE A631</td>
<td>Structural Finite Elements</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: ES A301 and CE A431.</td>
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<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>CE A633</td>
<td>Structural Dynamics</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: CE A431 and MATH A302.</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>CE A634</td>
<td>Earthquake Engineering</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: CE A431 and CE A432 and CE A433 and CE A633.</td>
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<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>CE A636</td>
<td>Multi-Story Building Structural Design</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: CE A431 and CE A432 and CE A433.</td>
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<td></td>
<td>Offered as Demand Warrants.</td>
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<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>CE A649</td>
<td>Urban Transportation Planning</td>
<td>3 CR</td>
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<tr>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>CE A662</td>
<td>Surface Water Dynamics</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td></td>
<td>Prerequisites: ES A341.</td>
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<tr>
<td></td>
<td>Principles of open channel flow, ice covered flow, unsteady flow, and stream flow as a sediment and pollution transport agent.</td>
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<tr>
<td>CE A663</td>
<td>Ground Water Dynamics</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: ES A341.</td>
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<tr>
<td></td>
<td>Fundamentals of geohydrology, hydraulics of flow through porous media, well hydraulics, ground water pollution, and ground water resources development.</td>
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<tr>
<td>CE A674</td>
<td>Waves, Tides, and Ocean Processes forEngineers</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: ES A341.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>CE A675</td>
<td>Design of Ports and Harbors</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: ES A341.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Registration Restrictions: Prerequisite and graduate standing, or instructor permission. Introduction to planning and design of port and harbor facilities.</td>
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<tr>
<td>CE A676</td>
<td>Coastal Engineering</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>CE A681</td>
<td>Frozen Ground Engineering</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>Registration Restrictions: Training or experience in soil mechanics. Offered Fall Semesters. Nature of frozen ground, thermal properties of frozen soil classification, physical and mechanical properties of frozen soils, subsurface investigation of frozen ground, thaw settlement and thaw consolidation, slope stability, and principles of foundation design in frozen ground.</td>
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<tr>
<td>CE A682</td>
<td>Ice Engineering</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: ES A331 and MATH A202.</td>
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<td>Offered as Demand Warrants.</td>
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<td></td>
<td>Factors governing designs which must contend with the presence of ice and snow are discussed. Topics include ice growth, ice and snow structure, mechanical properties and their dependence on temperature and structure, creep and fracture, mechanics of ice sheets, forces on structures, and experimental methods.</td>
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<tr>
<td>CE A683</td>
<td>Arctic Hydrology and Hydraulic Engineering</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: CE A344.</td>
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<tr>
<td></td>
<td>Aspects of hydrology and hydraulics unique to engineering problems of the North. Emphasis on Alaskan conditions, information from Canada and other circumpolar countries included.</td>
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<tr>
<td>CE A684</td>
<td>Arctic Utility Distribution</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: ES A341.</td>
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<tr>
<td></td>
<td>Offered Spring Semesters.</td>
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<tr>
<td></td>
<td>Practices and considerations of utility distribution in Arctic regions. Emphasis on proper design to include freeze protection, materials, energy conservation and system selection.</td>
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<tr>
<td>CE A685</td>
<td>Slope Stability</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Introduction to stability of slopes in soils and rocks; physical and mechanical properties of soils and rocks related to slope stability; residual stresses in rock masses; failures in overburden and rock masses; methods of slope stability analysis; role of slope stability in economic, design and operation of engineering projects.</td>
<td></td>
</tr>
<tr>
<td>CE A686</td>
<td>Civil Engineering Project</td>
<td>1-6 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1-6 + 0</td>
<td></td>
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<tr>
<td></td>
<td>Registration Restrictions: Admission to candidacy for the master of civil engineering degree. Arranged between the advisor, project committee, and the student. The student is required to take an oral exam defending the project.</td>
<td></td>
</tr>
<tr>
<td>CE A698</td>
<td>Individual Research</td>
<td>1-6 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1-6 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Registration Restrictions: Faculty permission.</td>
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<tr>
<td></td>
<td>A course to be designed between the student and faculty member to allow students the chance to pursue special advanced interests in engineering at the MS level.</td>
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</tr>
<tr>
<td>CE A699</td>
<td>Thesis</td>
<td>1-6 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1-6 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate committee permission. Individual study of an advanced engineering problem resulting in a thesis. The student must have been admitted to candidacy for the master of science in civil engineering. The student must take an oral exam defending the thesis.</td>
<td></td>
</tr>
</tbody>
</table>
### COMMUNITY EDUCATION - CED

Offered through Kenai Peninsula College
34820 College Dr., Soldotna, Alaska, 99669,(907) 262-0300.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CED A106</td>
<td>Beginning Genealogy</td>
<td>3 CR</td>
<td>Teaches how to do genealogical research effectively and intelligently by using family, vital, census, court, and military records. Covers immigration and the naturalization process, importance of oral history and techniques of interviewing; how computers fit in the field; and types of libraries and special collections available.</td>
</tr>
<tr>
<td>CED A110</td>
<td>Employment Development Planning</td>
<td>1 CR</td>
<td>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.</td>
</tr>
<tr>
<td>CED A119</td>
<td>Crisis Intervention Training</td>
<td>4 CR</td>
<td>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.</td>
</tr>
<tr>
<td>CED A122</td>
<td>Natural Medicine Practices</td>
<td>1 CR</td>
<td>An introduction to natural health practices, focusing on current research and developments.</td>
</tr>
<tr>
<td>CED A139</td>
<td>Computer Repair for IBM and Compatibles</td>
<td>1 CR</td>
<td>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.</td>
</tr>
<tr>
<td>CED A140</td>
<td>Calculator Workshop</td>
<td>1 CR</td>
<td>Familiarize students with the operation of a graphics calculator. Specific uses of the calculator appropriate to arithmetic, algebra, trigonometry, a calculus will be presented.</td>
</tr>
<tr>
<td>CED A142</td>
<td>Megaskills</td>
<td>1 CR</td>
<td>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.</td>
</tr>
<tr>
<td>CED A170</td>
<td>Conflict Resolution</td>
<td>1 CR</td>
<td>Introduction to the principles of conflict. Focuses on effective communication, cooperation, affirmation, and win-win solutions.</td>
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</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CED A231</td>
<td>Grant Proposal Writing</td>
<td>1 CR</td>
<td>Includes communication, cooperation, affirmation, and win-win solutions.</td>
</tr>
<tr>
<td>CED A232</td>
<td>Professional/ Business Development Conference for Women</td>
<td>1 CR</td>
<td>Provides an overview of funding sources and references, and provides an in-depth description of the components of a grant proposal.</td>
</tr>
<tr>
<td>CED A241</td>
<td>Classroom Volunteer Training</td>
<td>1 CR</td>
<td>Multidisciplinary response to sexual assault for law enforcement officers, social service personnel, and nurse examiners.</td>
</tr>
<tr>
<td>CED A243</td>
<td>Parent to Parent: Facilitator Training</td>
<td>1 CR</td>
<td>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.”</td>
</tr>
</tbody>
</table>

### CHEMISTRY - CHEM

http://www.uaa.alaska.edu/chem/chem.htm

Offered through the College of Arts and Sciences
Engineering Building (ENGR), Room 339, 786-1238

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM A055</td>
<td>Contemporary Chemistry</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>CHEM A055L</td>
<td>Contemporary Chemistry Laboratory</td>
<td>1 CR</td>
<td>Laboratory designed to teach the fundamentals of working with laboratory equipment, data gathering, analysis, and reporting.</td>
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<tr>
<td>Course Code</td>
<td>Course Description</td>
<td>Credits</td>
<td>Contact Hours</td>
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</tr>
<tr>
<td>CHEM A103</td>
<td>Survey of Chemistry</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>CHEM A103L</td>
<td>Survey of Chemistry Laboratory</td>
<td>1 CR</td>
<td>0 + 3</td>
</tr>
<tr>
<td>CHEM A104</td>
<td>Introduction to Organic Chemistry and Biochemistry</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>CHEM A104L</td>
<td>Introduction to Organic Chemistry and Biochemistry Laboratory</td>
<td>1 CR</td>
<td>0 + 3</td>
</tr>
<tr>
<td>CHEM A105</td>
<td>General Chemistry I</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>CHEM A105L</td>
<td>General Chemistry I Laboratory</td>
<td>1 CR</td>
<td>0 + 3</td>
</tr>
<tr>
<td>CHEM A106</td>
<td>General Chemistry II</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>CHEM A106L</td>
<td>General Chemistry II Laboratory</td>
<td>1 CR</td>
<td>0 + 3</td>
</tr>
<tr>
<td>CHEM A212</td>
<td>Quantitative Analysis</td>
<td>5 CR</td>
<td>3 + 6</td>
</tr>
<tr>
<td>CHEM A311</td>
<td>Physical Chemistry: A Biological Orientation</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>CHEM A321</td>
<td>Organic Chemistry I</td>
<td>4 CR</td>
<td>3 + 4</td>
</tr>
<tr>
<td>CHEM A322</td>
<td>Organic Chemistry II</td>
<td>4 CR</td>
<td>3 + 4</td>
</tr>
<tr>
<td>CHEM A331</td>
<td>Physical Chemistry I</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>CHEM A332</td>
<td>Physical Chemistry II</td>
<td>5 CR</td>
<td>3 + 6</td>
</tr>
<tr>
<td>CHEM A434</td>
<td>Instrumental Methods</td>
<td>4 CR</td>
<td>2 + 6</td>
</tr>
<tr>
<td>CHEM A441</td>
<td>Principles of Biochemistry I</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>CHEM A442</td>
<td>Principles of Biochemistry II</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
</tbody>
</table>
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 A105 and BIOL A106 and CHEM A321.  
Crosslisted with: BIOL A471.  
A study of the immune response including the biochemistry of antibodies, cellular and molecular events triggered by antigenic stimulation, regulation, immunopathology, transplantation, cancer and immunochemical techniques.

CHEM A492 Undergraduate Seminar 1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: Admission to the chemistry degree program and faculty permission.  
Stacked with: CHEM A692.  
Topical subjects in chemistry and biochemistry presented by undergraduate students.

CHEM A498 Individual Research 3 CR  
Contact Hours: 0 + 9  
Registration Restrictions: Department permission. Special Fees.  
Research projects to be arranged with individual faculty members who will direct the study of research.

CHEM A634 Advanced Instrumental Methods 4 CR  
Contact Hours: 2 + 6  
Prerequisites: CHEM A212.  
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.

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.

COMPUTER INFORMATION & OFFICE SYSTEMS - CIOS

http://www.cbpp.alaska.edu/DEGREES/cios.html  
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.

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 Note: May be offered as either classroom or open-entry, individualized course.  
Offered as Demand Warrants. 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  
Prerequisites: CIOS A100. Special Note: Open-entry, individualized course. CIOS A100A, A100B, and A100C are equivalent to CIOS A100. Offered as Demand Warrants. Introductory keyboarding covering techniques and mechanics of learning to type by touch.

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 A100. Offered as Demand Warrants. Emphasizes development of speed and accuracy and introduces centering and typing of letters and envelopes.

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 A100. Offered as Demand Warrants. Emphasizes development of speed and accuracy and introduces typing of tables and reports.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIOS A102 Keyboarding Skill Building</td>
</tr>
<tr>
<td>Contact Hours: 0 + 2</td>
</tr>
<tr>
<td>Prerequisites: CIOS A100</td>
</tr>
<tr>
<td>Grade Mode: Pass/No Pass.</td>
</tr>
<tr>
<td>Special Note: Keyboarding skill of at least 30 WPM recommended. Offered as Demand Warrants.</td>
</tr>
<tr>
<td>CIOS A105 Introduction to PC Computers</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Keyboarding skill of at least 30 WPM. Offered Fall and Spring Semesters. A non-technical computer literacy course. Overview of computers and current popular software packages for small business and personal use. Six to twelve hours of introduction to each of several applications including word processing, electronic spreadsheets, database and graphics software.</td>
</tr>
<tr>
<td>CIOS A105A Introduction to PC Computers</td>
</tr>
<tr>
<td>Contact Hours: 1 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Keyboarding skill of at least 30 WPM recommended. Introduction to using PC software. Includes word processing, database management, electronic spreadsheets, and graphics.</td>
</tr>
<tr>
<td>CIOS A107 Macintosh Computer and Applications</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: CIOS A100.</td>
</tr>
<tr>
<td>Registration Restrictions: Keyboarding skill of at least 30 WPM. Offered as Demand Warrants. Introduction to Macintosh computer hardware and software, including word processing, spreadsheets, data management, communications, and graphics.</td>
</tr>
<tr>
<td>CIOS A107A Introduction to Macintosh Computers</td>
</tr>
<tr>
<td>Contact Hours: 1 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Keyboarding skills of at least 30 WPM recommended. Offered as Demand Warrants. Introduction to using Macintosh software. Includes word processing, database management, electronic spreadsheets, and graphics.</td>
</tr>
<tr>
<td>CIOS A109 Introduction to ClarisWorks</td>
</tr>
<tr>
<td>Contact Hours: 1 + 0</td>
</tr>
<tr>
<td>Prerequisites: CIOS A107A or CIOS A113B.</td>
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<tr>
<td>Introduction to use of integrated software program - learning basic components. Students will have assigned as well as individual projects.</td>
</tr>
<tr>
<td>CIOS A110 Computer Concepts in Business</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>CIOS A111C Introduction to Lotus in Windows</td>
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<tr>
<td>Contact Hours: 1 + 0</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<td>CIOS A111D Introduction to Excel in Windows</td>
</tr>
<tr>
<td>Contact Hours: 1 + 0</td>
</tr>
<tr>
<td>Prerequisites: CIOS A113B.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>CIOS A111E QuickBooks/Introduction to Personal Accounting</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>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.</td>
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<tr>
<td>CIOS A111F Introduction to Quickbooks for Windows</td>
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<tr>
<td>Contact Hours: 1 + 0</td>
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<tr>
<td>Introduction to the accounting and bookkeeping program. Covers setup, maintenance and input for general ledger, accounts receivable and accounts payable. Includes cash flow, profit and loss, balance sheet reports and payroll.</td>
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<tr>
<td>CIOS A112F Introduction to Microsoft Access in Windows</td>
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<tr>
<td>Contact Hours: 1+0 or 0+2</td>
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<tr>
<td>Registration Restrictions: Keyboarding skills of at least 30 WPM. CIOS A113B or experience using Windows. Special Note: May be offered as either scheduled or open entry, individualized course. Includes basic database structures and business applications. Student creates a multi-tabled business database project.</td>
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<tr>
<td>CIOS A113B Introduction to Windows</td>
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<tr>
<td>Contact Hours: 1 + 0</td>
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<tr>
<td>Introduction to the Windows environment. Includes file and disk management, the control panel, print manager, Windows setup and maintenance.</td>
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<tr>
<td>CIOS A114A Introduction to Microsoft PowerPoint</td>
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<tr>
<td>Contact Hours: 1 + 0</td>
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<tr>
<td>Prerequisites: CIOS A113B.</td>
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<tr>
<td>Registration Restrictions: Keyboarding skill of at least 30 WPM. Special Note: May be offered as either classroom or open-entry, individualized course. Explores some of the characteristics of a Windows-based application covering basic Windows operations focusing on Microsoft Word for Windows.</td>
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<tr>
<td>CIOS A115H Introduction to WordPerfect in Windows</td>
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<tr>
<td>Contact Hours: 1 + 0</td>
</tr>
<tr>
<td>Prerequisites: CIOS A113B.</td>
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<tr>
<td>Registration Restrictions: Keyboarding skill of at least 30 WPM. Special Note: May be offered as either classroom or open-entry, individualized course. Instruction and practice in the use of IBM personal computer and WordPerfect for Windows software for standard word processing operations.</td>
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<tr>
<td>CIOS A116B Introduction to Desktop Publishing On IBM</td>
</tr>
<tr>
<td>Contact Hours: 1 + 0</td>
</tr>
<tr>
<td>Prerequisites: CIOS A100. Offered as Demand Warrants. Introduction to using a desktop publishing package on the IBM. Students will produce publications placing text and graphics created with other applications. Design elements will also be discussed.</td>
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<tr>
<td>CIOS A117A Electronic Research Methods</td>
</tr>
<tr>
<td>Contact Hours: 1 + 0</td>
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<tr>
<td>Registration Restrictions: Familiarity with Macintosh or other computer system. Electronic research will be discussed as a form of information retrieval. Presentations about electronic retrieval methods will be followed by hands-on, practical searching for student-selected project information. Modern-equipped computers will be demonstrated.</td>
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<tr>
<td>CIOS A119 Exploring the Internet</td>
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<tr>
<td>Contact Hours: 1 + 0</td>
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<tr>
<td>Registration Restrictions: Keyboarding of at least 30 WPM and basic computer skills. Introduction to the basic Internet tools, utilities, and information systems. Explores using electronic mail, mailing lists, Usenet, Telnet, FTP, WHOIS, Finger, and file transfer methods as tools for locating information needed on-the-job, in studies, and for recreational purposes.</td>
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<tr>
<td>CIOS A160 Business English</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>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.</td>
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<td>CIOS A161</td>
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<tr>
<td>CIOS A251</td>
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<tr>
<td>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.</td>
</tr>
</tbody>
</table>

| 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: 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 work place. Emphasizes leadership theory, problems in communication, motivation, and interpersonal skills which enhance the ability to function successfully with others in an organization. |

| 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. Special Note: Check schedules for specific titles being offered. 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 A272 | Law Office Procedures: Litigation Documents | 3 CR |
| Contact Hours: 3 + 0 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 A273 | 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 A274 | 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 | Records Management | 3 CR |
| Contact Hours: 3 + 0 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 A280 | 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. Special Note: Requires 45 hours of 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 operations work experience in an approved position. |

| CIOS 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 programming work experience in an approved position. |

| CIOS A295C | Office Systems Internship | 1-6 CR |
| Contact Hours: 0 + 3-18 Registration Restrictions: 12 credit hours in CIOS 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. |

| CIOS A310 | Analysis of Business Systems | 3 CR |
| Contact Hours: 3 + 0 Prerequisites: CIOS 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. |
Cios A315 Advanced Topics in Microcomputer Applications for Business
Contact Hours: 3 + 0
Prerequisites: CIOS A201.
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.

Cios A330 Database Management Systems
Contact Hours: 3 + 0
Prerequisites: CIOS 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.

Cios A338 Desktop Publishing and Design
Contact Hours: 3 + 0
Prerequisites: CIOS A107A.
Registration Restrictions: Admission to upper-division standing.
Offered as Demand Warrants.
The use of desktop publishing software to design, lay out, edit and refine high-quality printed communications in an office setting. Students produce flyers, brochures, newsletters, and other publications with the quality of printed typesetting and design.

Cios A340 Client-Server Programming
Contact Hours: 3 + 0
Prerequisites: CIOS A201 and CIOS 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 DHMS software for interactive processing. Emphasis on structured program design, program testing and certification, and documentation for production.

Cios A345 Managing Data Communication and Computer Networks
Contact Hours: 3 + 0
Prerequisites: CIOS 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.

Cios A360 Rapid Application Development
Contact Hours: 3 + 0
Prerequisites: CIOS A201.
Registration Restrictions: Admission to upper-division standing.
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.

Cios A361 Advanced C Programming & UNIX Environments
Contact Hours: 3 + 0
Prerequisites: CIOS 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.

Cios A365 Object Oriented Programming
Contact Hours: 3 + 0
Prerequisites: CIOS 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.

Cios A376 Management Information Systems
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.

Cios A380 Managerial Presentations
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.

Cios A390 Software Development Project
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 BBAMIS 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.

Cios A395 Programmer/Analyst Internship
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
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
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.
Provides opportunities for the exploration of a field 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 let the user navigate, interact, create, and communicate. Design theory and the integration of various multimedia forms 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
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 A345.
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.
A 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, system 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.

COMPUTER AND NETWORK TECHNOLOGY - CNT

http://www.uaa.alaska.edu/ctc/
Offered through the Community and Technical College
Gordon Hartlieb Building (GHB), Room 106, 786-6465

CNT A101 Microsoft Office 2000 Fundamentals 2 CR
Contact Hours: 1 + 2.5
Special Note: Good keyboarding skills recommended.
Provides basic information for Office 2000, including, but not limited to, word processing, spreadsheet, PowerPoint presentations, operating shell, and internet tools. Emphasizes individual knowledge and teamwork through variety of projects.

CNT A150 PC Operating Systems 3 CR
Contact Hours: 2 + 3
Develops basic understanding of command line, desktop, and server operating systems. Includes computer programming, architecture, and hardware necessary to understand the operating system interactions.

CNT A161 PC Architecture 1 CR
Contact Hours: 1 + .5
Covers basic hardware associated with microcomputer operation, including, but not limited to, memory, motherboards, CPUs, chipsets, buses, expansion slots, and resource allocation.

CNT A162 PC Building, Upgrading, Configuring, and Troubleshooting 2 CR
Contact Hours: 1.5 + 2
Describes how to evaluate, install, and troubleshoot available hardware and software computer equipment. Covers aspects such as system components, PC assembly and disassembly, software installation, safety, and maintenance.

CNT A163 Introduction to Networking 1 CR
Contact Hours: 1 + .5
Introduces the different physical mediums and their characteristics associated with networking. This will include, but not be limited to, types of copper and fiber optic cables, connections, testing, cabling planning, and layout.

CNT A165 Customer/Service Fundamentals 1 CR
Contact Hours: 1 + 0
Introduces basic customer service principles, including relationships, perceptions, telephone techniques, quality, ethics, record keeping, interpersonal relationships, and teamwork.

CNT A180 PC Interfacing 3 CR
Contact Hours: 2 + 3
Prerequisites: CNT A160 and CNT A161 and CNT A162.
Covers the hardware associated with computer interfacing, including bus structures, system resources, timing and control, ports, communication interfaces, multimedia access, infrared devices, and PC/PCMCIA cards.

CNT A181 PC Auxiliary Storage 1 CR
Contact Hours: 1 + .5
Prerequisites: CNT A160 and CNT A161 and CNT A162.
Introduces PC storage devices and interfaces, including, but not limited to, magnetic storage, optical storage, disk drives, drive installation, configuration, and file systems.
CNT A182  PC Peripheral Devices  1 CR
Contact Hours:  1 + 5
Prerequisites: CNT A160 and CNT A161 and CNT A162.
Introduces ancillary PC hardware, including keyboards, printers, pointing
devices, video displays, video capture, scanners, and digital cameras.

CNT A183  Local Area Networks  2 CR
Contact Hours:  1.5 + 2
Prerequisites: CNT A160 and CNT A162 and CNT A163.
Primitives the fundamentals of Local Area Networking, including topologies,
protocols, computer and delivery hardware, Ethernet, network operating systems,
LAN assessment, and other related software.

CNT A184  Introduction to TCP/IP  2 CR
Contact Hours:  1.5 + 2
Prerequisites: CNT A183.
Primitives transmission control protocol/internet protocol, including structure,
addressing, data transfer, software, applications, and troubleshooting.

CNT A190  Selected Topics in MOUS Certifications  1 CR
Contact Hours:  5 + 1
Prerequisites: CNT A101.
Special Note: May be repeated for credit with a change of subtitle.
Primitives advanced Microsoft training leading to MOUS certifications in
selected software topics from the Office 2000 suite.

CNT A260  Wide Area Networking  2 CR
Contact Hours:  1.5 + 2
Prerequisites: CNT A184.
Primitives wide area network fundamentals, communications, hardware,
and protocols, including physical layer protocol, data link layer protocol, and higher
layer protocol.

CNT A261  CISCO Router Fundamentals  3 CR
Contact Hours:  2 + 3
Prerequisites: CNT A184.
Primitives details of CISCO routers and router interfaces including, router
configuration, software controls, user modes, IP addressing, and routing protocols.

CNT A262  Computer Technical Support  2 CR
Contact Hours:  1.5 + 2
Prerequisites: CNT A165 and CNT A184.
Primitives skills necessary for evaluating and implementing various technical
support functions, including hardware and software needs assessments, training
development, preventive maintenance, and effective communication and
documentation.

CNT A276  Independent Project  3 CR
Contact Hours:  0 + 11
Registration Restrictions: Faculty Permission; and working knowledge of CNT
topics.
Primitives 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.
Primitives 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.
Primitives advanced computer and network training leading to Comp TIAA+
and Network+ certifications.

CNT A282  Work Study  3 CR
Contact Hours:  0 + 11
Registration Restrictions: Faculty Permission; and successful completion of 12
credits in the CNT program.
Grade Mode: Pass/No Pass.
Primitives supervised workplace experience in industry settings. Integrates
advanced level knowledge and practice to demonstrate skill competencies.
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 into 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 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 CareerDevelopment 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

- Designed to prepare counselors and educators who work with youth. The course will address substance abuse, child abuse, violence, and related areas that pose high risk for youth. Prevention, intervention, and postvention strategies will be emphasized. The course is appropriate for counselors, regular/special education teachers, administrators, and related services personnel within Alaska.

COMM A360 Forensics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Prior experience in public speaking and faculty permission.

- Special Note: May be repeated once for credit.

- Advanced study for competitive speakers. Emphasis on individual competitive events: informative speaking, extemporaneous speaking, impromptu speaking, oratory, communication analysis, readers' theater, debate, and oral interpretation of literature. Students develop competition-worthy speeches with faculty guidance.

COMM A380 Theories of Human Communication 3 CR
Contact Hours: 3 + 0
Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237 or COMM A241.

- Covers major communication theories, principles, and research paradigms in interpersonal, group, organizational, and public contexts.

COMM 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.

COUN A101 Introduction to CareerExploration 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 CareerPlanning and Changing 3 CR
Contact Hours: 3 + 0

- Presents an innovative approach to career/life planning and job hunting. Emphasizes self-awareness and an ongoing process to define who you are and what you want from life. Includes skills identification, prioritizing, information gathering, resume writing, interviewing, salary negotiations and techniques to control the job hunt.

COUN A610 Foundations in Counseling 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

- Overview of the professional, ethical, legal, theoretical, and practical aspects of professional counseling. Examines the roles and responsibilities of a variety of counseling professions; professional organizations and associations; and professional preparation standards and credentialing. Historical and social contexts along with emerging professional directions are included.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credit Hours</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN A634</td>
<td>Counseling Practicum I</td>
<td>3 CR</td>
<td>Contact Hours: 0 + 9. Prerequisites: COUN A623 and COUN A624 and [COUN A611 or COUN A615]. Registration Restrictions: Admission to the Counseling and Guidance Program. Department permission required. Grade Mode: Pass/No Pass.</td>
</tr>
<tr>
<td>CS A100</td>
<td>Introduction to Computers</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>CS A101</td>
<td>Introduction to ComputerScience</td>
<td>3 CR</td>
<td>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 is required. A broad survey of computer science intended for students pursuing a major or minor in computer science. Examines many of the subdisciplines of computer science, such as: artificial intelligence, compilers, operating systems, hardware, software engineering, graphics, and algorithms.</td>
</tr>
<tr>
<td>CS A105</td>
<td>FORTRAN Programming</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A107 or MATH A270. Training and practice in writing programs in the FORTRAN language. Emphasis on problem solving with a computer: analysis, flowcharting, testing/debugging and documentation.</td>
</tr>
<tr>
<td>CS A106</td>
<td>BASIC Programming</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>CS A107</td>
<td>Pascal Programming</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A107 or MATH A270. Special Note: A student may apply no more than 3 credits from CS A107 and CS A201 toward graduation requirements for a baccalaureate degree. Training and practice in writing programs in the Pascal language. Emphasis on problem solving with a computer: analysis, flowcharting, testing/debugging, and documentation.</td>
</tr>
<tr>
<td>CS A109</td>
<td>Selected ComputerLanguages</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: Two years of high school algebra. Special Note: Course may be repeated for different languages, with faculty permission. Problem analysis and solution using a selected programming language (forth, MODULA-2, ADA, JAVA, UNIX, etc).</td>
</tr>
<tr>
<td>CS A201</td>
<td>Programming Concepts I</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: CS A101. An introduction to programming techniques and problem solving. Emphasis on the fundamentals of structured programming, testing, implementation and documentation of applications.</td>
</tr>
<tr>
<td>CS A202</td>
<td>Programming Concepts II</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: CS A201. Introduction to data structures and algorithm development.</td>
</tr>
<tr>
<td>CS A207</td>
<td>C Programming</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: CS A107 or CS A201 or CS A105. Training and practice in writing programs in the C programming language.</td>
</tr>
<tr>
<td>CS A221</td>
<td>ComputerOrganization and Assembly Programming</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>CS A310</td>
<td>Numerical Methods</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: CS A201 and MATH A314. 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>
</tr>
<tr>
<td>CS A315</td>
<td>Information Systems</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: CS A202. Analysis, documentation and design of information systems within corporate operating environments.</td>
</tr>
<tr>
<td>CS A320</td>
<td>Operating Systems</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: CS A202 and CS A221. An introductory course into the study of operating systems. Topics covered: process manipulation and synchronization, processor management, storage management, security, I/O and file systems, and basic distributed system concepts.</td>
</tr>
<tr>
<td>CS A330</td>
<td>Data Structures and Algorithms</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: CS A202 and MATH A231. Data structures and algorithms for their manipulation. The following topics will be covered: arrays, tables, stacks, queues, trees, linked lists, sorting, searching, and hashing.</td>
</tr>
<tr>
<td>CS A331</td>
<td>Programming Language Concepts</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: CS A202. Study of the syntax and semantics of widely differing programming languages. Syntax specification, block structure, binding, data structures, operators and control structures. Comparison of several languages such as ALGOL, FORTRAN, LISP, SNOBOL, and Pascal. Programming assignments in each language.</td>
</tr>
<tr>
<td>CS A360</td>
<td>Database Systems</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: CS A330. Discussion and application of data structures, index and direct file organizations, models of data including hierarchical, network and relational. Discussion of storage devices, data administration, data analysis, design, and implementation.</td>
</tr>
</tbody>
</table>
CS A371  Quantitative Methods for the Information Sciences  3 CR
Contact Hours:  3 + 0  
Prerequisites: MATH A231.  
A survey of operations research methods as related to the information sciences. Topics include linear programming, inventory models, PERT/CPM, networks, and statistical decision theory.

CS A381  Optimization Techniques  3 CR
Contact Hours:  3 + 0  
Prerequisites: MATH A306 and MATH A314 and AS A307.  
Nature of computer based optimization methods. General and special purpose methods of optimization, such as classical optimization, linear programming, separable programming, integer programming, goal programming, quadratic programming, chance-constrained programming, transportation, and assignment problems. Emphasis on problem recognition, formulation, solution, and interpretation using computer software packages.

CS A385  Computer Graphics  3 CR
Contact Hours:  3 + 0  
Prerequisites: CS A201 and MATH A314.  
Study of the devices and techniques for the use of computers in generating graphical displays. Includes display devices, display processing, transformation systems, interactive graphics, three-dimensional graphics, graphics system design and configuration, low and high level graphics languages, and applications.

CS A387  Digital Image Processing  3 CR
Contact Hours:  3 + 0  
Prerequisites: CS A202 and MATH A202.  
Introduces fundamentals of image processing and machine vision. Emphasizes mathematics and algorithms for image enhancement, restoration, compression, segmentation, and feature extraction. Discusses image storage techniques, acquisition, human visual perception, imaging geometry, and current hardware.

CS A401  Software Engineering  3 CR
Contact Hours:  3 + 0  
Prerequisites: CS A331.  
Software design as an engineering discipline. Project planning, proposal writing, and management. Program design, verification, and documentation. Additional topics from security, legal aspects of software, and validation.

CS A403  Object Oriented Programming Systems  3 CR
Contact Hours:  3 + 0  
Prerequisites: CS A202.  
Introduction to object-oriented problem solving techniques and their implementation using object-oriented paradigms. Topics include: methods and object classes, inheritance, encapsulation and polymorphism. Selected programming assignments using object-oriented languages such as C++, Smalltalk, and Eiffel.

CS A405  Artificial Intelligence  3 CR
Contact Hours:  3 + 0  
Prerequisites: CS A330 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 A406  Topics in Computer Science  3 CR
Contact Hours:  3 + 0  
Special Note: CS A406 may be repeated for credit with a change of subtitle.  
Advanced topics in computer science not available in other CS courses.

CS A410  Expert Systems  3 CR
Contact Hours:  3 + 0  
Prerequisites: CS A371 and CS A381.  
Theoretical foundations of expert systems (ES) and key issues relating to their successful development and implementation. Expert systems development packages will be used to create a rudimentary expert system.

CS A411  Design and Analysis of Algorithms  3 CR
Contact Hours:  3 + 0  
Prerequisites: CS A330.  
Introduction to analysis and complexity of algorithms. Searching/sorting algorithms, polynomial matrix algorithms, graph theoretic algorithms. Introduction to complexity theory.

CS A413  Computerand Data Security  3 CR
Contact Hours:  3 + 0  
Prerequisites: CS A360.  
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 A414  Information Systems Planning and Management  3 CR
Contact Hours:  3 + 0  
Prerequisites: CS A371.  
Planning, organizing, scheduling and controlling information systems projects. Case studies of information systems, projects management problems and their solutions are examined.

CS A425  Internship in Computing  3 CR
Contact Hours:  0 + 9  
Registration Restrictions: Junior standing with minimum of 15 credits in CS courses and faculty permission.  
Professional work experience in appropriate areas of computing. This course is open to qualified students receiving faculty recommendation.

CS A430  Computer Modeling and Simulation  3 CR
Contact Hours:  3 + 0  
Prerequisites: AS A307 and CS A202 and MATH A371.  
Introduction to the basic concepts of artificial intelligence. Topics include: context-free grammars and parsing; finite automata and regular languages; pushdown automata and context-free grammars, deterministic and nondeterministic Turing machines; decidability and computability; complexity classes and complete problems.

CS A431  Compilers: Concepts and Techniques  3 CR
Contact Hours:  3 + 0  
Prerequisites: CS A221 and CS A330 and CS A331.  
Top-down and bottom-up parsing, lexical analyzers, symbol tables, internal forms, intermediate languages, code generation, optimization. A compiler for a rudimentary language is constructed.

CS A442  Communications and Networking  3 CR
Contact Hours:  3 + 0  
Prerequisites: CS A202 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 A446  Parallel and Distributed Computing  3 CR
Contact Hours:  3 + 0  
Prerequisites: CS A221 and CS A320 and CS A331.  
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 A448  Computer Architecture  3 CR
Contact Hours:  3 + 0  
Prerequisites: CS A221 and CS A331 and CS A320.  
Introduction set design and evaluation, processor implementation techniques, pipelining, vector processors, memory systems, and I/O systems.

CS A450  Automata, Languages and Computability  3 CR
Contact Hours:  3 + 0  
Prerequisites: CS A330.  
Study of the theory of computing. Topics include: context-free grammars and parsing; finite automata and regular languages; pushdown automata and context-free grammars, deterministic and nondeterministic Turing machines; decidability and computability; complexity classes and complete problems.

CS A470  Applied Software Development Project  3 CR
Contact Hours:  3 + 0  
Registration Restrictions: Senior standing and faculty permission.  
Application of computer programming and system development concepts, principles, and practices to a comprehensive system development project. The student is required to analyze, design, and document a realistic system of moderate complexity under the supervision of their committee chairperson. Independent study with grade determined by project which the student presents (and defends) to their committee.

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.
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COURSE DESCRIPTIONS

CS A670  Computer Science for Software Engineers  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Faculty permission required.
An in-depth survey of the theoretical underpinnings of computer science. Topics are taken from the areas of algorithms and data structures; computer architecture; networking, operating systems; computability and formal languages; programming languages; and compilers.

CS A671  Advanced Software Engineering  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Faculty permission required.
Software design as an engineering discipline. The various phases of software development are covered: planning analysis, design, implementation, testing, and maintenance. The phases are examined across the spectrum from small scale to very large scale projects.

CS A690  Advanced Topics in Computer Science  1-3 CR
Contact Hours:  1-3 + 0
Registration Restrictions: Faculty permission required.
An advanced topic in computer science. Topic and number of credits are determined at the time of course offering. The course may be repeated for credit with change of subtitle.

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.

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 A260B  Introduction to Creative Writing: Poetry  3 CR
Contact Hours:  3 + 0
Special Fees.
Special Note: This course may be taken twice for credit.
Introduction to techniques of writing poetry, with close analysis of each student’s work.

CWLA A260C  Introduction to Creative Writing: Fiction  3 CR
Contact Hours:  3 + 0
Special Fees.
Special Note: This course may be taken twice for credit.
Introduction to techniques of writing fiction, with close analysis of each student’s work.

CWLA A260D  Introduction to Creative Writing: Drama  3 CR
Contact Hours:  3 + 0
Special Note: May be taken twice for credit.
Introduction to techniques of writing drama, with close analysis of each student’s work.

CWLA A260E  Introduction to Creative Writing: Nonfiction  3 CR
Contact Hours:  3 + 0
Special Fees.
Special Note: This course may be taken twice for credit.
Introduction to techniques of writing nonfiction, with close analysis of each student’s work.

CWLA A260F  Introduction to Creative Writing: Children’s Stories  3 CR
Contact Hours:  3 + 0
Special Fees.
Special Note: May be taken twice for credit.
Introduction to various approaches to writing children’s stories, with close analysis of each student’s work.

CWLA A260G  Introduction to Creative Writing: Women’s Writing Workshop  3 CR
Contact Hours:  3 + 0
Special Fees.
Special Note: May be taken twice for credit.
Practice in two or more types of creative writing, with close analysis of each student’s work. Participants examine the roles and challenges of women writers in society and explore narrative possibilities unique to writing by women.

CWLA A261  Art/Literary Magazine Production  3 CR
Contact Hours:  3 + 0
Special Fees.
Special Note: May be taken twice for credit.
Edit and prepare manuscripts for publication, layout magazine pages for the printer, and learn about other aspects of magazine production. Solicit, evaluate, and select material appropriate for a literary magazine: short stories, poetry, essays, artwork, etc. Also covers publicity, marketing, and distribution of the finished publication.

CWLA A352  Undergraduate Writer’s Workshop: Poetry  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Faculty permission required.

CWLA A362  Undergraduate Writer’s Workshop: Fiction  3 CR
Contact Hours:  3 + 0
Registration Restrictions: One undergraduate writing workshop (200- or 300-level) and permission of instructor.

CWLA A372  Undergraduate Writer’s Workshop: Nonfiction  3 CR
Contact Hours:  3 + 0
Registration Restrictions: One undergraduate writing workshop (200- or 300-level) and permission of instructor.

CWLA A382  Undergraduate Writer’s Workshop: Drama for Stage and Screen  3 CR
Contact Hours:  3 + 0
Registration Restrictions: One undergraduate writing workshop (200- or 300-level) and faculty permission.

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 A490  The Writer’s Craft  3 CR
Contact Hours:  3 + 0
Registration Restrictions: One 200- or 300-level literature class, or a 300-level CWLA writing workshop.

An examination of one or more forms of literary art, emphasizing formal elements discernible in craft and theory as it applies to both style and content.

CWLA A499  Thesis  3 CR
Contact Hours:  0 + 9
Registration Restrictions: Faculty permission.
Compilation of CWLAMor with Distinction candidate’s best creative writing. Includes an analysis and defense introducing the main body of original writing by the student.

http://www.uaa.alaska.edu/cwla/
COURSES DESCRIPTIONS

CWL A 650A  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.

CWL A 650B  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 Anchorage Daily News’ We Alaskans magazine. Students assigned to We Alaskans will learn how to report, edit, research and write for that magazine.

CWL A 650C  Creative Writing Internship  3 CR
Contact Hours: 0 + 12
Registration Restrictions: Students must be MFA candidates nominated by the Creative Writing and Literary Arts faculty and graduate standing. Special Note: May be repeated once for credit.
An internship for students in the MFA Program. Students selected for this internship will work as editors of Inklings, the campus literary magazine. They will supervise all aspects of the magazine and make editorial decisions concerning the contents of the magazine. They will also mentor undergraduates on the staff and/or undergraduates who are contributors to the magazine, as appropriate.

CWL A 652  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.

CWL A 662  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.

CWL A 672  Graduate Writer’s Workshop: Prose Nonfiction  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required and graduate standing. Special Fees. Special Note: May be repeated for degree credit.
Advanced study and practice of the forms and techniques of nonfiction prose with close analysis of each student’s work.

CWL A 682  Graduate Writer’s Workshop: Drama for Stage and Screen  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required and graduate standing. Special Fees. Special Note: May be repeated for degree credit.
Advanced study and practice of various dramatic structures of stage and screen with close analysis of each student’s work. Emphasis will be on the process of developing work for production.

CWL A 690  Form and Theory  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing. Special Fees. Special Note: May be repeated with change of subtitle.
A graduate level examination of one or more forms of literary art emphasizing formal elements discernible in craft and theory as it applies to both style and content.

CWL A 698  Individual Research  1-6 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
The student conducts an individual research project under the close supervision of an instructor.

CWL A 699  Thesis  1-6 CR
Contact Hours: 0 + 3-18
Registration Restrictions: Faculty permission. Special Note: May be repeated for credit.
Book-length collection of the graduate student’s creative work introduced by an in-depth analytical essay addressing the body of the creative work in terms of process, craft, and theory. Also part of the thesis evaluation is an annotated bibliography and the oral defense of the thesis.

DENTAL ASSISTING - DA
Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 158, 786-6929

DA A110  Dental Radiography  4 CR
Contact Hours: 3 + 2
Registration Restrictions: Corequisite: DA A123 for dental assisting, DH A114 or familiarity with dental terminology for dental hygiene. COREQUISITE: DA A110L. Special Note: One 2 hour lab per week.
Radiation physics and biology with emphasis on radiation health, safety, protection, radiation production, x-ray machines, components and functions, and image receptors. Includes study of essential radiographic techniques, film processing techniques, and identification of radiographic anatomy.

DA A121  Chairside Procedures I  6 CR
Contact Hours: 3 + 6
Prerequisites: (DA A123 or concurrent enrollment). Special Fees.
Beginning skills necessary to function as a chairside dental assistant in a general dentistry practice. Emphasis on developing clinical skills in four-handed dentistry techniques.

DA A122  Chairside Procedures II  8 CR
Contact Hours: 4 + 8
Prerequisites: DA A110 and DA A121 and DA A123 and (DA A125 or concurrent enrollment). Special Fees.
Emphasizes advanced dental assisting skills necessary in general dentistry. Panoramic procedures, exposing radiographs on patients, taking impression for study models, matrix assembly, rubber dam application, assisting with the administration of local anesthesia, temporary crown construction, and oral health and nutrition. Briefly introduces the specialties in dentistry.

DA A123  Biomedical Sciences for Dental Assistants  4 CR
Contact Hours: 4 + 0
Prerequisites: (DA A121 or concurrent enrollment). Special Fees.
Microbiology as it applies to prevention of disease transmission; dental terminology as it relates to anatomy; anatomy and physiology of the head and neck; and the body systems as they relate to dentistry.

DA A124  Dental Materials and Application I  2 CR
Contact Hours: 1 + 2
Special Fees.
Physical and chemical properties of restorative dental materials. Prepares student for laboratory application of those materials.

DA A125  Dental Materials and Application II  2 CR
Contact Hours: 1 + 2
Prerequisites: DA A124. Special Fees.
Properties and manipulation of gypsum material, impression materials and custom trays. Covers basic crown and bridge procedures.

DA A126  Dental Sciences for Dental Assistants  1 CR
Contact Hours: 1 + 0
Prerequisites: DA A123. Special Fees.
Introduces oral embryology and histology, oral pathology, and pharmacology as they relate to dental assisting procedures.

DA A127  Dental Practice Management and Professionalism  3 CR
Contact Hours: 3 + 0
Prerequisites: DA A123. Special Fees.
Introduces the responsibilities of the dental assistant or dental practice management assistant and professionalism and related topics.
DENTAL HYGIENE - DH

Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 160, 786-6929

DH A111  Periodontics I  2 CR
Contact Hours: 2 + 0
Prerequisites: DA A110 (or concurrent enrollment) and (DA A121 or concurrent enrollment) and (DA A123 or concurrent enrollment) and (DA A124 or concurrent enrollment) and (DA A125 or concurrent enrollment) and (DA A126 or concurrent enrollment) and (DA A128 or concurrent enrollment). Special Fees.
Grade Mode: Pass/No Pass.

DH A112  Techniques I for Dental Hygienists  7 CR
Contact Hours: 3 + 8
Prerequisites: DA A110 (or concurrent enrollment) and (DA A121 or concurrent enrollment) and (DA A123 or concurrent enrollment) and (DA A124 or concurrent enrollment) and (DA A125 or concurrent enrollment) and (DA A126 or concurrent enrollment) and (DA A128 or concurrent enrollment). Special Fees.
Grade Mode: Pass/No Pass.

DH A113  Issues for Dental Hygiene  1 CR
Contact Hours: 1 + 0
Prerequisites: DA A110 (or concurrent enrollment) and (DA A121 or concurrent enrollment) and (DA A123 or concurrent enrollment) and (DA A124 or concurrent enrollment) and (DA A125 or concurrent enrollment) and (DA A126 or concurrent enrollment) and (DA A128 or concurrent enrollment). Special Fees.
Grade Mode: Pass/No Pass.

DH A114  Anatomy of the Orofacial Structures  2 CR
Contact Hours: 2 + 0
Prerequisites: DA A112. Special Fees.
Grade Mode: Pass/No Pass.

DH A121  Periodontics II  2 CR
Contact Hours: 2 + 0
Prerequisites: DA A121. Special Fees.
Grade Mode: Pass/No Pass.

DH A122  Techniques II for Dental Hygienists  4 CR
Contact Hours: 2 + 4
Prerequisites: DA A121. Special Fees.
Grade Mode: Pass/No Pass.

DH A165  Pharmacology for Dental Hygienists  2 CR
Contact Hours: 2 + 0
Special Fees.
Grade Mode: Pass/No Pass.

DA A128  Dental Communication Skills  2 CR
Contact Hours: 2 + 0
Special Fees.
Grade Mode: Pass/No Pass.

DA A195A  Dental Assisting Practicum I  1 CR
Contact Hours: 0 + 6
Prerequisites: DA A195A and (DA A122 or concurrent enrollment) and (DA A123 or concurrent enrollment) and (DA A124 or concurrent enrollment). Special Fees.
Grade Mode: Pass/No Pass.

DA A195B  Dental Assisting Practicum II  3 CR
Contact Hours: 0 + 16
Prerequisites: DA A195B and (DA A122 or concurrent enrollment) and (DA A123 or concurrent enrollment) and (DA A124 or concurrent enrollment). Special Fees.
Grade Mode: Pass/No Pass.

DA A211  Current Periodontal Therapies  2 CR
Contact Hours: 2 + 0
Special Fees.
Grade Mode: Pass/No Pass.

DA A212  Techniques III for Dental Hygienists  3 CR
Contact Hours: 1 + 4
Prerequisites: DA A211. Special Fees.
Grade Mode: Pass/No Pass.

DA A224  Principles of Dental Health  3 CR
Contact Hours: 2 + 3
Special Fees.
Grade Mode: Pass/No Pass.

DA A292A  Clinical Seminar II  1 CR
Contact Hours: 0 + 3
Corequisite: DA A292A. Special Fees.
Grade Mode: Pass/No Pass.

DA A292B  Clinical Seminar III  1 CR
Contact Hours: 0 + 3
Corequisite: DA A292B. Special Fees.
Grade Mode: Pass/No Pass.

Registration Restrictions: Current BLS certification. Special Fees.
IETETICS & 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.
Special Fees.
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).
Special Fees.
Study of nutrition in the life cycle including food sources and requirements of nutrients; physiological and metabolic aspects of nutrient function; food choices, selection and contemporary issues of concern to health professionals and consumers.

**DN A245**
Nutrition for the Second Fifty Years 3 CR
Contact Hours: 3 + 0
Special Fees.
Focuses on the nutritional needs of the older person, based on physiological changes in aging, with nutritionally related diseases, procuring and preparing food, and assistive care. Designed for those preparing for careers in elderly care and for those interested in learning how to care for themselves in later years.

**DN 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.

**DN A305**
Child Nutrition I 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 A395**
Alternative Practicum for Dental Hygienists 2 CR
Contact Hours: 0 + 6
Registration Restrictions: Graduate of an accredited Dental Hygiene Program; licensed in Alaska as a dental hygienist; BLS certification; immunizations.
Students will provide dental hygiene services and dental health education in selected dental health care settings. Sites include but are not limited to rural communities, correctional institutions, hospitals, nursing homes and community dental clinics. Students will be required to adhere to state and agency regulations concerning clinical supervision. Due to the seasonal nature of work in rural areas, rural assignments generally will be offered during the spring semester.

**DH A295A**
Clinical Practicum II 5 CR
Contact Hours: 0 + 15
Registration Restrictions: Current BLS certification, department permission, and immunizations.
Corequisite: DH A292A.
Special Fees.
Provides opportunity for students to achieve clinical skill competency with individuals presenting themselves with mild to moderate periodontal disease. This course is conducted in a clinical setting with volunteer patients and individualized instruction.

**DH A295B**
Clinical Practicum III 6 CR
Contact Hours: 0 + 18
Registration Restrictions: Current BLS certification, department permission, and immunizations.
Corequisite: DH A292B.
Special Fees.
Provides opportunity for student to achieve clinical skill competency with individuals presenting themselves with moderate to advanced periodontal disease. Learning occurs through student practice and individualized instruction.

**DH A295C**
Community-Based Practicum II 1-6 CR
Contact Hours: 0 + 3-18
Prerequisites: DH A295A.
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 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 ADAaccredited dental hygiene program, a UAA second year dental hygiene student, or a licensed dental hygienist.
Special Fees.
Special Note: Current BLS required.
Examines pharmacology, armamentarium, anatomical and physiological considerations, administration techniques, and potential complications of local anesthesia. Analyzes pharmacology, techniques, medical contraindications, and management complications accompanying administration and monitoring of nitrous oxide.

**DH A320**
Dental Health Services 2 CR
Contact Hours: 2 + 0
Special Fees.
Surveys the various alternative dental hygiene practice settings available to clinicians. Generally overviews the role the dental hygienist has in providing dental hygiene services within various health care systems.

**DH A395**
Clinical Practicum IV for Dental Hygienists 1-3 CR
Contact Hours: 0 + 3-9
Registration Restrictions: Graduated from an ADAaccredited dental hygiene program or licensed as a dental hygienist. Current BLS certification.
Special Note: May be repeated for credit. No more than three credits will be applied to a degree program.
Students integrate and apply dental hygiene techniques through direct patient care. Synthesis of knowledge and skill competencies essential to dental hygiene practice are stressed. Emphasis is placed on comprehensive dental hygiene treatment.

**DH A420**
Community Dental Health 3 CR
Contact Hours: 1 + 6
Prerequisites: HS A379.
In various dental hygiene practice settings, the student participates in community health care planning and becomes acquainted with patterns for delivery of comprehensive health care services and the role of dental team members. Field assignments will be arranged on a contractual basis to meet the dental needs, goals and interests of the student. Regularly scheduled meetings will be held with the faculty to assess the progress of the project and evaluate the outcome.
**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 Elementary Ballet 1 CR

Contact Hours: 1 + 1

Special Fees.

Special Note: May be repeated three times for credit.

Introduction to classical ballet techniques for the avocational student with little or no background in dance. Simple exercises and combinations introduce fundamental ballet positions, movements, and terminology. Correct alignment stressed in basic exercises and elementary locomotor combinations.

DNCE A071 Elementary Modern Dance 1 CR

Contact Hours: 1 + 1

Special Fees.

Introduction to elementary modern techniques for the avocational student with little or no background in modern dance. Simple exercises and combinations introduce fundamental modern dance positions, movements, and terminology. Correct alignment stressed in basic exercises and elementary locomotor combinations.

DNCE A081 Elementary Jazz 1 CR

Contact Hours: 1 + 1

Special Fees.

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 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.

Prerequisites: DNCE A101.

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 A102 Fundamentals of Ballet II 2 CR

Contact Hours: 1 + 2

Prerequisites: DNCE A101.

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 A121 Fundamentals of Modern Dance I 2 CR

Contact Hours: 1 + 2

Special Fees.

Prerequisites: DNCE A121.

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 philosophy and aesthetics. Qualities of dance movement and music/dance relationships. Emphasis on science of movement including proper anatomical alignment, injury prevention, and movement efficiency.

DNCE A122 Fundamentals of Modern Dance II 2 CR

Contact Hours: 1 + 2

Prerequisites: DNCE A121. Special Fees.

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 philosophy and aesthetics. Qualities of dance movement and music/dance relationships. Emphasis on science of movement including proper anatomical alignment, injury prevention, and movement efficiency.

DNCE A124 Dance for Musical Theatre 2 CR

Contact Hours: 2 + 0

Crosslisted with: THR A124.

Special Fees.

Special Note: May be repeated three times for credit.

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 A132 Fundamentals of Jazz II 2 CR

Contact Hours: 1 + 2

Prerequisites: DNCE A131.

Special Fees.

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 inter-relationships between music and dance. Historical and social influences in jazz expression examined. Correct alignment and injury prevention stressed.

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.

Prerequisites: DNCE A151.

Increases the student skill level in basic tap dance technique and augments tap vocabulary acquired in DNCE A151. Basic steps will be developed into longer combinations and dance routines.

DNCE A170 Dance Appreciation 3 CR

Contact Hours: 3 + 0

Prerequisites: DNCE A101.

History of dance forms and their importance in society. Course will examine major performance contexts as an aesthetic experience, and as a kinesthetic experience. Develops critical thinking and communication skills useful throughout a liberal arts curriculum.

DNCE A201 Intermediate Ballet I 2 CR

Contact Hours: 1 + 2

Prerequisites: DNCE A102. Special Fees.

Special Note: May be repeated three times for credit.

Elaboration of ballet techniques through barre and center practice with emphasis on body placement, flexibility, and strength. Correct alignment and injury prevention stressed. Serious ballet course requiring regular attendance.

DNCE A202 Intermediate Ballet II 2 CR

Contact Hours: 1 + 2

Prerequisites: DNCE A201. Special Note: May be repeated three times for credit.

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 A230 | Advanced Ballet I | 2 CR  
Contact Hours: 1 + 2  
Prerequisites: DNCE A202.  
Special Fees.  
Special Note: May be repeated three times for credit.  
Continuation of DNCE 202. More complex ballet steps and techniques. For students who have previously taken intermediate classical ballet or who have completed at least one year of recent ballet training under qualified teacher.  

DNCE A204 | Advanced Ballet II | 2 CR  
Contact Hours: 1 + 2  
Prerequisites: DNCE A203.  
Special Fees.  
Special Note: May be repeated three times for credit.  
Continuation of DNCE 203. More complex ballet steps and techniques. For students who have previously taken intermediate classical ballet or who have completed at least one year of recent ballet training under qualified teacher.  

DNCE A221 | Intermediate Modern Dance I | 2 CR  
Contact Hours: 1 + 2  
Prerequisites: DNCE A121 and DNCE A122.  
Special Note: May be repeated three times for credit.  
Increases student skill level and movement vocabulary in intermediate modern I technique. Movement phrasing and dynamics emphasized with correct alignment and injury prevention enhanced.  

DNCE A222 | Intermediate Modern Dance II | 2 CR  
Contact Hours: 1 + 2  
Prerequisites: DNCE A221.  
Special Note: May be repeated three times for credit.  
Continuation of DNCE A221. Elaboration of intermediate modern I technique and theories with an emphasis on developing performance technique and improvisational skills. Correct alignment and injury prevention stressed throughout.  

DNCE A231 | Intermediate Jazz I | 2 CR  
Contact Hours: 1 + 2  
Prerequisites: DNCE A132.  
Increases skill level and movement vocabulary in intermediate jazz technique rooted in the complexity, variety, and spontaneity of jazz music. Jazz expression concepts of swing, rhythmic manipulation, and syncopation are explored with an emphasis on extended phrases, musically and structured improvisation. Historical and social influences in jazz expression explored. Correct alignment and injury prevention stressed.  

DNCE A232 | Intermediate Jazz II | 2 CR  
Contact Hours: 1 + 2  
Prerequisites: DNCE A231.  
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 A233 | Advanced Jazz Dance I | 2 CR  
Contact Hours: 1 + 2  
Prerequisites: DNCE A232.  
Performance oriented jazz dance emphasizing continued technical development.  

DNCE A251 | Intermediate Tap Dance I | 1 CR  
Contact Hours: .5 + 1  
Prerequisites: DNCE A152.  
Offered only at Kenai Peninsula College.  
Introduces intermediate level tap dance technique and vocabulary. Develops more intricate rhythmic sequences and complete full-length dances.  

DNCE A252 | Intermediate Tap Dance II | 1 CR  
Contact Hours: .5 + 1  
Prerequisites: DNCE A251.  
Offered only at Kenai Peninsula College.  
Increases skill level in intermediate tap dance techniques and vocabulary. Develops more intricate rhythmic sequences and complete full-length dances. Emphasizes performance and mastery of musical understanding.  

DNCE A260 | Contemporary Techniques, Composition, and Repertory | 1 CR  
Contact Hours: 1 + 1  
Registration Restrictions: Teacher approval by audition required.  
Special Fees.  
Special Note: Requires regular attendance. May be repeated three times for credit.  
Performance-oriented course taught by University faculty and/or guest 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 are explored. Repertory may include a performance piece to be presented at a University dance program performance during the semester.  

DNCE A261 | Fundamentals of Dance Composition | 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Completion of Fundamentals I and II level of either ballet, modern, or jazz, or its equivalent with a grade of C or better, and instructor permission.  
Special Fees.  
Introduction to the basic process of creating movement studies as a foundation for larger works of dance. Universal elements of composition and the creative process are explored. Final movement study project required.  

DNCE A265 | Dance Repertory and Performance | 2 CR  
Contact Hours: 1 + 2  
Registration Restrictions: Teacher approval by audition required.  
Special Note: Requires serious attendance and additional rehearsals may be required. May be repeated three times for credit.  
Enhancement of dance techniques and application of performance skills through repertory. Class work focuses on learning a work of choreography in either the jazz or contemporary dance idiom with an emphasis on developing the necessary dance technique for execution of the choreography. Class culminates in performance.  

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.

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**EARLY CHILDHOOD DEVELOPMENT - ECD**

*Offered through the College of Health, Education & Social Welfare*

**Classroom Building K (K), Room 217, 786-4401**

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ECD A105 | Introduction to the Field of Early Childhood | 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Survey of historical, social, and philosophical foundations of the field.  
Discusses ethics, developmentally appropriate practices, survey of types of early childhood settings, and personal skills and professional competencies for the early childhood practitioner.  

ECD A111 | Safe Learning Environments | 1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Stresses importance of safe learning environments and competencies which enable students to provide such environments for young children. Emphasis on measures necessary to reduce and prevent accidents.  

ECD A112 | Healthy Learning Environments | 1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Prepares students to provide learning environments for young children which are free of factors contributing to or causing illness.  

ECD A113 | Learning Environments | 1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Emphasizes arrangement of environments conducive to learning styles of children. Includes selection of learning styles of children. Includes selection of materials and equipment, room arrangements, and scheduling.
ECD A121 Physical Activities for Young Children 1 CR
Contact Hours: 1 + 0
Special Note: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
Stresses essentials of planning centers which provide space, materials, equipment, and activities to promote physical development of children. Includes planning and scheduling activities, selecting equipment and materials.

ECD A122 Cognitive Activities for Young Children 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
Activities and experiences which encourage questioning, probing, and problem solving skills appropriate for different developmental levels and various learning styles of young children.

ECD A123 Communication 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
Activities that help children acquire and use language to communicate their thoughts and feelings. Includes nonverbal communication and understanding others.

ECD A124 Creative Activities for Young Children 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
Experiences, activities, and media that stimulate children to explore and express their creative abilities.

ECD A125 Safe and Healthy Learning Environments 1 CR
Contact Hours: 1 + 0
Offered only at Kenai Peninsula College.
Stresses competencies which enable students to provide measures necessary to reduce and prevent accidents. Prepares students to provide learning environments which are free of factors contributing to or causing illness.

ECD A126 Learning Environment/ Physical Activities 1 CR
Contact Hours: 1 + 0
Offered only at Kenai Peninsula College.
Emphasizes learning as appropriate to developmental levels and learning styles of children. Includes planning and scheduling activities, selecting equipment and materials to promote physical development of children.

ECD A127 Social/Sense of Self Development 1 CR
Contact Hours: 1 + 0
Offered only at Kenai Peninsula College.
Emphasizes providing physical/emotional security for children, helping each child to accept and take pride in his/herself, and to develop a sense of independence.

ECD A131 Guidance and Discipline 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
Information and activities used in providing environments where young children learn and practice appropriate behaviors individually and in groups. Includes influences on behavior promoting self-control, inappropriate practices, and parent involvement.

ECD A132 Social Development 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
Emphasis on social development of young children by the encouragement of empathy and mutual respect among children and adults. Also discussed is the development of cooperation among children and between children and adults.

ECD A211 Development of a Sense of Self 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
Presents information and activities to help young children know, accept, and take pride in themselves, and to develop independence. Includes fostering children’s self-knowledge and sense of pride, experiences of success, acceptance by others, and realization of their own effectiveness.

ECD A215 Introduction to Inclusive Early Education: Strategies 3 CR
Contact Hours: 3 + 0
Introduction to early childhood settings which include children with special needs. Overview of inclusive strategies in the classroom, home, and community. Includes introduction to the Individualized Family Service Plan, Individual Education Plan, and interdisciplinary team roles.

ECD A216 Family and Community Issues: Supporting a Child with Special Needs 3 CR
Contact Hours: 3 + 0
Prerequisites: ECD A215.
Registration Restrictions: If prerequisite is not met, permission of UAS program advisor is required.
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 A221 Families 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
Emphasis on the importance of positive and productive relationships between families and child development programs. Also discussed is coordination of childrearing efforts of both family and program.

ECD A222 Program Management 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
Information and activities teaching students to use available resources to ensure effective operation of children’s programs. Emphasis on competent organization, planning, and record keeping.

ECD A223 Exploring and Developing Personal Capabilities in Teaching 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
Stresses awareness of personal qualities, feelings, and values that affect teaching atmosphere, relationships with children, and individual teaching style.

ECD A224 Professionalism 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
Promotes professional and personal growth among caregivers of young children. Topics include developing philosophical basis for caregiving, goal ethics, networking, and continuing self-actualization.

ECD A225 Professionalism and Program Management 1 CR
Contact Hours: 1 + 0
Offered only at Kenai Peninsula College.
Emphasizes being a competent organizer, planner, record keeper, communicator, and a cooperative coworker. Stresses making decisions based on knowledge of early childhood theories and practices, promoting quality in child care services, and taking advantage of opportunities to improve competence, both for personal and professional growth and for the benefit of children and families.

ECD A226 Guidance/Discipline and Families 1 CR
Contact Hours: 1 + 0
Offered only at Kenai Peninsula College.
Learning to maintain an open, friendly, and cooperative relationship with each child’s family, encouraging their involvement in the program and supporting the child’s relationship with their family. Stresses providing a supportive environment in which children can begin to learn and practice appropriate and acceptable behaviors as individuals and as a group.

ECD A231 Screening 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
Stresses activities to help teachers understand purposes of screening young children and use of screening procedures.
ECD A232  Assessment/Recording  1 CR
Contact Hours: 1 + 0
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Stresses activities to help teachers understand assessment of young children, recording of assessment information, and staffing procedures.

ECD A233  Mainstreaming Preschool Children with Special Needs  1 CR
Contact Hours: 1 + 0
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Stresses activities to help teachers understand concepts and purposes of mainstreaming special needs preschool children into regular classrooms. Emphasis on rights of special needs children to services and necessary procedures for providing those services under P.L. 94142.

ECD A234  Administration of Early Childhood Programs  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Students should have 3 credits of child development, or concurrent enrollment in child development course work and instructor approval.

Survey course designed for practicing and aspiring administrators of infant/toddler, preschool, or school-age child care programs. Course content includes: organizational leadership and management, financial and legal issues, program development, and community relations.

ECD A289  CDA Assessment  1 CR
Contact Hours: 1 + 0
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.

Stresses application and preparation procedures for final child development associate (CDA) credential assessment. Emphasizes steps taken to become CDA certified.

ECD A295A  Practicum I  3 CR
Contact Hours: 1 + 2
Prerequisites: ECD A105 and ECD A223 and ECD A224 and DN A145 and PSY A245 and ECD A231 and ECD A232 and ECD A233.

Registration Restrictions: Ten credits of the following: ECD A111, A112, A113, A121, A122, A123, A124, A131, A132, A211, A221, A222. Special Note: Faculty permission required. Must have faculty permission to take concurrently with ECD A295B.

Supervised field experience in an instructor approved early childhood setting. Emphasis is on planning and conducting children’s activities in various program areas and on assisting a lead teacher. Experience includes an initial assessment in all areas of professional competencies. An individual plan for the semester will be developed.

ECD A295B  Practicum II  3 CR
Contact Hours: 1 + 2
Prerequisites: ECD A295A.

Special Note: Faculty permission required. Must have faculty permission to take concurrently with ECD A295A.

Supervised experience in an instructor approved early childhood setting. Emphasis is on an increasing level of responsibility for planning/supervising all program areas. Experience includes an initial assessment in all areas of professional competencies. An individual plan for the semester will be developed.

ECD 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:  3 CR
The Development and Learning Processes of Young Children
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.

ECON A201  Principles of Microeconomics  3 CR
Contact Hours: 3 + 0
Special Note: Not recommended for persons who have taken ECON A201 and/or ECON A202.

A one semester course designed primarily for the student who plans no further work in economics. Utilizes a less rigorous approach than is customary in traditional economics courses and focuses on current economic problems.

ECON A202  Principles of Macroeconomics  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.

Offered Fall and Spring Semesters.

Introduction to economics; analysis and theory of national income; money and banking; public finance and taxation; and international trade. Primary concentration on the capitalist system and the United States economy.

ECON A321  Intermediate Microeconomics  3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201.

Course Attributes: GER Social Sciences Requirement.

Offered Fall and Spring Semesters.

Theory of prices and markets; industrial organization; public policy; income distribution; and contemporary problems of labor and business.

ECON A380  The Economy of Alaska  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior or senior standing.

An introduction to the Alaska economy. Uses basic economic concepts to illustrate the Alaska economy. Includes a description of the sectors of the Alaska economy, an overview of the history of development; the economies of the state’s urban and rural regions; and the important economic issues facing the state.

ECON A321  Intermediate Microeconomics  3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202 and [MATH A200 or MATH A272].

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECON A324</td>
<td>Intermediate Macroeconomics</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ECON A201 and ECON A202 and ECON A350.</td>
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<td>Offered Spring Semesters.</td>
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<tr>
<td></td>
<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>ECON A337</td>
<td>Economic Development</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ECON A201 and ECON A202.</td>
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<td></td>
<td>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>ECON A350</td>
<td>Money and Banking</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ECON A201 and ECON A202.</td>
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<td>Offered as Demand Warrants.</td>
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<td></td>
<td>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>ECON A351</td>
<td>Public Finance</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ECON A201 and ECON A202.</td>
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<td>Government taxation, borrowing, and spending; economic effects of taxation, and influence of fiscal policy on economic activity.</td>
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<td>ECON A359</td>
<td>Industrial Organization and Public Policy</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ECON A201 and ECON A202.</td>
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<td></td>
<td>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>ECON A360</td>
<td>Modern Economic History</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: HIST A102 and ECON A201.</td>
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<td>Crosslisted with: HIST A360.</td>
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<td>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>ECON A412</td>
<td>Econometrics</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 2</td>
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<td></td>
<td>Prerequisites: ECON A201 and ECON A202 and BA A273.</td>
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<td>Offered Fall Semesters.</td>
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<td></td>
<td>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>ECON A415</td>
<td>Urban and Regional Economics</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ECON A201 and ECON A202.</td>
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<td>Economic issues examined at subnational level, such as states, regions, and cities. Includes the location of economic activity in regions, relationship between regions, models of economic growth, the structure of regional economics, housing and land use issues, and urban and regional economic policy.</td>
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<tr>
<td>ECON A421</td>
<td>LaborEconomics</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ECON A201 and ECON A202.</td>
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<td>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>ECON A425</td>
<td>History of Economic Thought</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ECON A201 and ECON A202.</td>
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<td>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>ECON A429</td>
<td>Business Forecasting</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 3</td>
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<td></td>
<td>Prerequisites: ECON A201 and ECON A202 and CIOS A110 and BA A273. Offered Fall and Spring Semesters.</td>
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<td>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>ECON A430</td>
<td>Mathematics for Economists</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ECON A321 and ECON A324 and [MATH A200 or MATH A272]. Offered as Demand Warrants.</td>
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<td>Application of calculus, matrix algebra, and probability theory in various areas of economics, including demand theory, production theory, optimization, and input-output analysis.</td>
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<tr>
<td>ECON A435</td>
<td>Economics of Resources</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ECON A201 and ECON A202.</td>
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<td>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>ECON A454</td>
<td>Economics Internship</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ECON A321 and ECON A324.</td>
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<td>Registration Restrictions: Junior standing as an economics major; and permission of faculty and dean.</td>
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<td>Work experience in an approved position with supervision and training in various phases of applied economics or economic research.</td>
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<td>ECON A463</td>
<td>International Economics</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ECON A201 and ECON A202.</td>
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<td>Offered Fall Semesters.</td>
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<td>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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<tr>
<td>ECON A488</td>
<td>Seminar in Economic Research</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: Faculty permission.</td>
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<td>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.</td>
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<tr>
<td>ECON A602</td>
<td>Introduction to Economics for Managers</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>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.</td>
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<tr>
<td>ECON A620</td>
<td>Managerial Economics</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ECON A201 and ECON A202 and BA A273 and MATH A272.</td>
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<td>The application of economic theory to managerial decision making, including: theory of consumer behavior and market demand, theory of the firm and market supply, price and output decisions under alternative market structures, capital and labor markets, and government’s roles in a market economy.</td>
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<tr>
<td>ECON A625</td>
<td>Economics and Public Policy</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ECON A201 and ECON A202.</td>
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<td>Offered Fall Semesters.</td>
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<td></td>
<td>An examination of economics in relation to public policy, both as a determinant of policy and a tool of administration.</td>
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<tr>
<td>ECON A626</td>
<td>Regional Economic Analysis</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ECON A201 and ECON A202.</td>
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<td>Application of economic methods to city and regional economies. Includes forecasting economic and population growth; impact analysis; measuring regional economic activity; economic development planning; location models for private and public sector; housing market analysis.</td>
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<tr>
<td>ECON A628</td>
<td>Applied Economics</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ECON A625.</td>
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<td>Offered as Demand Warrants.</td>
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<td>Applied economic analysis. Includes adjusting for inflation; discounting; projecting market impacts; interpreting multiple regression results; non-market valuation; cost-benefit analysis; indirect economic impacts; presentation of economic results.</td>
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</tbody>
</table>
EDUCATION - ED

http://www.uaa.alaska.edu/ed/

Offered through the College of Health, Education & Social Welfare

Classroom Building K (K), Room 217, 786-4401

ED A101 Introduction to Education 3 CR
Contact Hours: 3 + 0

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

ED A120 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.

ED A125 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.

ED A180 Beginning Sign Language 1 CR
Contact Hours: 1 + 0

Introductory training in manual communication methods used in the United States. Students will learn how to carry on basic communication with deaf persons via manual mode. Credit will be awarded upon demonstration of mastery of the materials.

ED A181 Intermediate Sign Language 1 CR
Contact Hours: 1 + 0

Prerequisites: ED A180.

Continued instruction in manual communication methods. Students will become fluent in the most commonly used methods of communicating with deaf persons. Credit will be awarded only upon demonstration of successful mastery of the competencies required in the course.

ED A192 Tutoring Adult Learners 1 CR
Contact Hours: 1 + 0

Grade Mode: Pass/No Pass.

Offered only at Matanuska-Susitna College.

A workshop on tutoring techniques/methods for adult learners. Exposes appropriate approaches suitable for teaching the adult learners. Activities include instruction and core competencies in basic education. Tutoring techniques include the “Laubach way to reading” and the “Ready to read” approach when teaching the adult learners. Activities include administering diagnostic tests and analyzing results in preparation of lesson plans for the adult learner and a review of literacy strategies for tutors teaching adults.

ED A200 Tutoring Lab 1-3 CR
Contact Hours: 0 + 2-6

Prerequisites: ED A200A.

Offered only at Kenai Peninsula College.

The goal of this course is to successfully tutor students. Introduction to tutoring lab serves as the practical experience for ED A200A, ED A200B, and ED A200C.

ED A200A Beginning Tutor Training Seminar 1 CR
Contact Hours: 1 + 0

Prerequisites: ED A200A.

Offered only at Kenai Peninsula College.

Students new to the tutor program develop skills for successfully helping students with their course work. Tutors learn and practice techniques for handling a variety of situations before tutoring begins. The framework for each semester tutor program is established during the course.

ED A200B Advanced Tutor Training Seminar 1 CR
Contact Hours: 1 + 0

Prerequisites: ED A200A.

Offered only at Kenai Peninsula College.

Advanced tutors will hone their skills through seminars, workshops and projects. Tutors may qualify for assisting their peers in academic courses, adult basic education, and English-as-a-Second-Language, or in public schools.

ED A200C Master Tutor Training Seminar 1 CR
Contact Hours: 1 + 0

Prerequisites: ED A200Aand ED A200B.

Registration Restrictions: 2 credits of ED A200 and faculty permission. Specific tutoring assignments may have other requirements.

Offered only at Kenai Peninsula College.

Master tutors will hone their skills through seminars, workshops, and projects. Tutors may qualify for assisting their peers in academic courses, adult basic education, English-as-a-Second-Language, or in the public schools.

ED A201 Introduction to Education 2 CR
Contact Hours: 2 + 0

Special Fees.

Introductory course for students exploring education as a possible career choice. Course covers the history of American education, an examination of contemporary issues, and basic classroom observational techniques. Students self-assess personal profile against characteristics of effective teachers.

ED A216 Children’s Literature 3 CR
Contact Hours: 3 + 0

Intended for teachers, parents, librarians, or anyone interested in reading many books for preschoolers through 6th grade. Much attention to selection and best use of children’s literature.

ED A300 Philosophical and Social Context of American Education 3 CR
Contact Hours: 3 + 0

Prerequisites: PSY A245.

Registration Restrictions: Departmental Approval Required; Admission to the School of Education.

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.

Explores how children learn language, similarities, and difference between first and second language acquisition, how culture influences language and literacy development, and how language is taught. Course tracks language acquisition from birth through the school years. Field experience required.

University of Alaska Anchorage 2001-2002 Course Catalog
http://www.uaa.alaska.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED A302</td>
<td>Foundations of Educational Technology</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>PSY A245</td>
</tr>
<tr>
<td>PREREQUISITES:</td>
<td>Departmental Approval Required; Admission to the School of Education.</td>
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<tr>
<td>Grade Mode: Pass/No Pass.</td>
<td>Provides prospective teachers with the general skills needed to integrate technology into their teaching and learning. It presents an overview of the issues, pedagogies, and skills needed to guide the effective use and assessment of technology in elementary school classrooms. Technologies used in schools as educational tools will be introduced.</td>
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<tr>
<td>ED A303</td>
<td>Foundations of Teaching and Learning</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ED A301 and PSY A245.</td>
</tr>
<tr>
<td>PREREQUISITES:</td>
<td>Departmental Approval Required; Admission to the School of Education.</td>
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<tr>
<td>Extends understanding of cognitive, affective, and communicative development of children and youth and connects these to current theoretical and practical research in teaching and learning. Emphasis will be on models of teaching, curriculum planning, and assessment of learning as the foundation for a developmentally appropriate teaching practice for the inclusive classrooms. Field experience required.</td>
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<tr>
<td>ED A320</td>
<td>Foundations of Educational Technology</td>
<td>2 CR</td>
<td>1 + 2</td>
<td>EDSE A312 or EDPE A338.</td>
</tr>
<tr>
<td>PREREQUISITES:</td>
<td>Admission to the Teacher Education Program.</td>
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<tr>
<td>Prepares prospective teachers to deal with technology in the work place and classroom. Course provides an overview of the issues, pedagogies, and skills which can help guide their assessment and use of technology in effective, creative, appropriate, and educationally sound ways. Technologies used in education, specifically microcomputers and optical hardware (laserdiscs and CD-ROM) will be emphasized.</td>
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<tr>
<td>ED A321</td>
<td>Instruction and Assessment</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>EDSE A312 or EDPE A338 and (ED A320 or concurrent enrollment).</td>
</tr>
<tr>
<td>PREREQUISITES:</td>
<td>Admission to the Teacher Education Program.</td>
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<tr>
<td>Emphasizes instructional planning and various methods of assessment. Students will design lesson plans with instructional objectives and plan appropriate strategies to assess students’ mastery of those objectives.</td>
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<tr>
<td>ED A401</td>
<td>Social Studies for Elementary Teachers</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>EDSE A336.</td>
</tr>
<tr>
<td>PREREQUISITES:</td>
<td>All General Education Requirements and admission to the School of Education.</td>
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<tr>
<td>Special Fees. Methodology and materials in the modern elementary social studies curriculum. Current trends in content and instructional techniques including unit planning and development, and inquiry techniques. Field experience in a classroom is required.</td>
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<tr>
<td>PREREQUISITES:</td>
<td>Acceptance into secondary education methods block. ED A487 or ED A687 must be taken concurrently and prior to student teaching.</td>
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<tr>
<td>Students will be expected to participate in practical, hands-on learning activities to gain experience in planning instruction, using various instructional delivery methods, managing a classroom, and evaluating learning.</td>
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<td>Admission into secondary education methods block. ED A487 or ED A687 must be taken concurrently and prior to student teaching.</td>
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<tr>
<td>Instructional techniques and methods appropriate to teaching science on the elementary level, including classroom management, lesson planning, research, and relevant aspects of statistical evaluations.</td>
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<tr>
<td>ED A404</td>
<td>Teaching Science in Elementary Schools</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>EDSE A336.</td>
</tr>
<tr>
<td>PREREQUISITES:</td>
<td>All General Education Requirements and admission to the School of Education.</td>
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<tr>
<td>Special Fees. A process oriented approach to teaching science. Modern concepts, methods and materials with emphasis on active involvement of the learner. Participation in science activities for all grade levels (K-6) required.</td>
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<tr>
<td>ED A407</td>
<td>Teaching of Elementary Mathematics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>EDSE A336 and MATH A205 with minimum grade of C.</td>
</tr>
<tr>
<td>PREREQUISITES:</td>
<td>All General Education Requirements and admission to the School of Education.</td>
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<tr>
<td>Math topics and their relationship to the methods used in teaching elementary children. Includes: sets, patterns; place value; operations with whole numbers and errors made with them; operations with fractions and errors with them; evaluation of books and materials; gaming; geometry; metric measurement; mapping; problem solving; computers; calculators; diagnostic and prescriptive testing; education theories; scope and sequence; and grouping and organization for mathematics on the secondary level, including classroom management, lesson planning, research, and relevant aspects of statistical evaluation.</td>
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<tr>
<td>ED A410</td>
<td>Language and Cognition</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>EDSE A336.</td>
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<tr>
<td>PREREQUISITES:</td>
<td>Acceptance into the secondary education program.</td>
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<tr>
<td>Prepares future teachers to integrate listening, speaking, reading and writing into their content classrooms. Includes discussion of current learning theory.</td>
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<tr>
<td>PREREQUISITES:</td>
<td>All General Education Requirements and admission to the School of Education.</td>
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<tr>
<td>Crosslisted with: ART A418.</td>
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<tr>
<td>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.</td>
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<tr>
<td>ED A418</td>
<td>Methods: Art in the Elementary School</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>EDSE A336.</td>
</tr>
<tr>
<td>PREREQUISITES:</td>
<td>All General Education Requirements; 12 credits of methods courses and admission to the school of education.</td>
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<tr>
<td>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.</td>
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<tr>
<td>ED A421</td>
<td>Development of Reading in Elementary School</td>
<td>6 CR</td>
<td>6 + 0</td>
<td>EDSE A336.</td>
</tr>
<tr>
<td>PREREQUISITES:</td>
<td>All General Education Requirements; 12 credits of methods courses and admission to the school of education.</td>
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<tr>
<td>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.</td>
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<tr>
<td>ED A422</td>
<td>Teaching Language Arts and Literature</td>
<td>6 CR</td>
<td>6 + 0</td>
<td>EDSE A336.</td>
</tr>
<tr>
<td>PREREQUISITES:</td>
<td>All General Education Requirements; 12 credits of methods courses and admission to the school of education.</td>
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<tr>
<td>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.</td>
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<tr>
<td>ED A423</td>
<td>Philosophical Foundations of Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ED A201.</td>
</tr>
<tr>
<td>PREREQUISITES:</td>
<td>Admission to a Teacher Education program and completion of the General Education Requirements.</td>
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<tr>
<td>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.</td>
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</tbody>
</table>
ED A425 Teaching Reading in Elementary Schools 4 CR
Contact Hours: 4 + 0
Prerequisites: ED A300 and ED A303 and EDSE A482.
Registration Restrictions: Departmental Approval Required; Admission to Internship.
Corequisite: ED A495A.
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 A426 Teaching Mathematics in Elementary Schools 3 CR
Contact Hours: 3 + 0
Prerequisites: ED A300 and ED A303 and EDSE A482 and MATH A205.
Registration Restrictions: Departmental Approval Required; Admission to Internship.
Corequisite: ED A495A.
Offered Fall Semesters.
Focus is on the mathematics topics typically taught in elementary schools and research-based methods for teaching. Concurrent enrollment in internship required.

ED A427 Teaching Social Studies in Elementary Schools 2 CR
Contact Hours: 2 + 0
Prerequisites: ED A300 and ED A303 and EDSE A482.
Registration Restrictions: Departmental Approval Required; Admission to Internship.
Corequisite: ED A495A.
Offered Fall Semesters.
Methodology and materials used in the modern elementary school social studies classroom. Students will be exposed to current research regarding the 6th student learning and conceptual development in history and social studies, and corresponding pedagogy, such as inquiry and issues-based learning. Includes issues in content selection and curriculum development and standards-based curriculum design. Concurrent enrollment in internship required.

ED A428 Teaching Science in Elementary Schools 2 CR
Contact Hours: 2 + 0
Prerequisites: ED A300 and ED A303 and EDSE A482.
Registration Restrictions: Departmental Approval Required; Admission to Internship.
Corequisite: ED A495A.

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 A119.
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.
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 A72 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 A78 Issues in AK Native Ed, K-12 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Admission to an education baccalaureate degree program or graduate standing in the SOE or a teaching certification.  
An analysis of the traditional preparation of Alaska Natives for adult roles in society and contrasts this system 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, as well as the relationship between schools and communities are considered.

ED A487 Field Experiences: Teacher Education 1-11 CR  
Contact Hours: 0 + 2-22  
Registration Restrictions: Teacher Education faculty approval.  
Grade Mode: Pass/No Pass.  
Field experiences in public school classrooms. Includes elementary, secondary, and physical education programs. Students gain practical experience in classroom settings. Assignments must be arranged through the School of Education.

ED A495A Internship I 3 CR  
Contact Hours: 0 + 9  
Prerequisites: ED A300 and ED A303 and EDSE A482.  
Registration Restrictions: Departmental Approval Required; Admission to Internship.  
Grade Mode: Pass/No Pass.  
Offered Fall Semesters.  
Supervised internship in an educational facility. Interns work with mentor teachers and demonstrate development of their teaching proficiency. Weekly internship seminar required. Course begins in accordance with the K-12 school year calendar, not the university academic year calendar.

ED A495B Internship II 6 CR  
Contact Hours: 0 + 18  
Prerequisites: ED A495A.  
Registration Restrictions: Departmental Approval Required; Admission to Internship.  
Corequisite: ED A430, ED A431 and ED A432.  
Grade Mode: Pass/No Pass.  
Offered Spring Semesters.  
Supervised internship in an educational facility. Internship II will continue the experiences begun in Internship I, students continuing to work with their mentor teachers and demonstrating continued development of their teaching proficiency. All students will teach an extended unit during this course and will be expected to assume complete responsibility for the classroom for an extended period. Weekly internship seminar is required. Course begins in accordance with the K-12 school year calendar, not the university academic year calendar.

ED 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 emphasizes 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,  
The development of knowledge of reading strategies that support literacy in the content area/disciplines for Kindergarten through grade twelve. Students will develop competencies in assessment and instruction that are consistent with multiple models of reading. Strategies for instruction, school-wide literacy programs, multiple assessments and ways to communicate results of assessments are features of this course. The alignment of instruction with national standards, as well as Alaska Standards for English/Language Arts/Reading, is addressed.

ED 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. 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 A620 Integrating the Language Arts 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Integration of the language processes: listening, speaking, reading, and writing; and the language content of literature and grammar into one unified curriculum, K-12. After establishing criteria for interdependency, students will review all language areas in order to assess their commonalities and individual variations. Using this assessment as a base, students will construct various models of language integration.
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, centering around microcomputers and optical hardware. Activities include hands-on experiences with applications software and hypermedia.

ED A627 Education Research 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing in School of Education. 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  
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 Integrating Educational Technology into the Curriculum 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ED A629 and ED A652. Registration Restrictions: Graduate Standing. Special Fees.  
Focuses on building K-12 curriculum materials and strategies in the use of microcomputers and related educational technologies as they relate to national and state standards.

ED A656 Middle School: Transescent Years 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Secondary or elementary Type A certification.  
Theory and practice of middle school education; the transescent student, curriculum modification and classroom management through interdisciplinary teams. Characteristics of the transescent student’s developmental needs are covered along with instructional resources, team planning, instructional strategies and classroom management.

ED A657 Educational Technology Portfolio Development and Assessment Center 3 CR  
Contact Hours: 2 + 3  
Prerequisites: ED A655. Registration Restrictions: Graduate Standing. Special Fees.  
Focuses on building an Educational Technology Electronic Teaching Portfolio and assessing that portfolio against national and state standards.

ED 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 A687 or concurrent enrollment). Registration Restrictions: Type A certification (elementary or secondary).  
Curricular and instructional modifications to accommodate the middle school student’s developmental needs. Emphasizes instructional team planning, core courses and interdisciplinary instruction. A variety of appropriate instructional and management strategies will be demonstrated: cooperative learning, inquiry, concept attainment, TabA, and computer technology.

ED 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  
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 A602  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 A683, 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, teaming 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.

ED A699  Current Topics in Adult Education  1-3 CR
Contact Hours:  1-3 + 0
Registration Restrictions: Bachelor’s degree from an accredited university.
Special Fees.
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.

ED A650  Principles of Human Resource Development  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Faculty permission.
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.

ED 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.

ED A657  Leadership  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Explores concepts, theories, and approaches concerning leadership, with particular emphasis on how they apply to adult and continuing education. Application of leadership ideas to improve decision making and problem solving skills, enhance effectiveness, and predict outcomes. Examines personal leadership styles and philosophies of leadership and leadership development.

ED A658  Organization and Administration of Adult Education  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Examines organizational models utilized by the diverse range of institutions and agencies involved in adult and continuing education and extension programs. Includes diversity of programs, organizational structures, goals and programs. Examines finance and facilities, personnel, program and community relations.

ED 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.

ED A667  Distance Learning and Adult Education  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Development of effective instructional methods for reaching adult learners at a distance. Provides participation in the design of instruction and use of specific delivery systems and technologies. Emphasizes design and delivery of instruction in Alaska. Students analyze and critique various modes of distance education in Alaska.

ED 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.

ED A678  Curriculum and Program Planning in Adult Education  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Explores the diversity of methods and strategies for planning and developing educational programs and services for adult learners. Includes planning for organization, curriculum, program, and delivery systems.
EDAE A679 Methods and Materials in Adult Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Exploration of methods and materials available for use in adult education, including the wide variety of methods and techniques in use today, and of both print and mediated materials. Develops skills in creating materials appropriate for adults in differing settings, and participating in delivery of instruction using various methods to create stimulating and effective learning environments.

EDAE A691 Professional Seminar 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Bachelor’s degree from an accredited university.
Reviews research in adult education, current and past, with analysis of its directions, effect, methodology, quality, and prospects. Examines and compares current practices and trends in the field with core literature of adult education. Promotes examination of professional portfolios for adult educators.

EDAE A695 Advanced Practicum in Adult Education 1-6 CR
Contact Hours: 0 + 3-18
Registration Restrictions: Students must be in the final phase of their program. Faculty permission.
Grade Mode: Pass/No Pass.
Provides supervised field experience within the broad realm of adult education.

EDAE A698 Individual Research 1-3 CR
Contact Hours: 0 + 3-9
Prerequisites: (ED A627 or concurrent enrollment).
Registration Restrictions: Acceptance in adult education master’s program, and adult education faculty permission.
Grade Mode: Pass/No Pass.
Completion of a master’s individual research project through quality research studies.

EDAE A699 Thesis 1-3 CR
Contact Hours: 0 + 3-9
Prerequisites: (ED A627 or concurrent enrollment).
Registration Restrictions: Acceptance in adult education master’s program, and adult education faculty permission.
Grade Mode: Pass/No Pass.
Completion of master’s thesis through quality research studies.

ENGINEERING DESIGN AND DRAFTING - EDD
Offered through Kenai Peninsula College
34820 College Dr., Soldotna, Alaska, 99669,(907) 262-0300.

EDD A288 ComputerAided 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

EDLA637 Educational Leadership and Organizational Behavior 3 CR
Contact Hours: 3 + 0
Special Fees.
Leadership and decision-making through collegial relations and consensus building in school settings. Includes skills for facilitating site-focused teams and activities, with emphasis on improving student performance and enhancing a school’s reputation. Contemporary theories of organizational development and change are presented.

EDLA638 Instructional and CurricularLeadership 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.

EDLA639 The Politics of Education 3 CR
Contact Hours: 3 + 0
Special Fees.
Historical, social, and cultural influences that have shaped political decisions affecting the national, state, and local educational program. Attention to federal, state, and local requirements as they pertain to decisions of a principal. Analysis of political groups, formal, and informal for impact on school organization and curriculum. Current trends for historical significance and impact on schools of the future.

EDLA640 Law and Ethics in Education 3 CR
Contact Hours: 3 + 0
Special Fees.
Knowledge and skills for developing professionally-sound legal and ethical practices in school settings. Legal issues that impact the organization and delivery of public education, including professional practice commissions standards and constitutional, statutory, administrative, and case law.

EDLA641 Principal Internship 3-6 CR
Contact Hours: 0 + 9-18
Prerequisites: EDLA637 and EDLA640 and [(EDLA642 or concurrent enrollment) or (EDLA643 or concurrent enrollment)].
Registration Restrictions: Admission to the Ed Leadership program.
Grade Mode: Pass/No Pass.
Special Fees.
Fieldwork in an appropriate educational or agency setting. Assignment will be respective to the Standards for Alaska’s Administrators.

EDLA642 Principal’s Seminar I 3 CR
Contact Hours: 3 + 0
Prerequisites: EDLA637 and EDLA640.
Registration Restrictions: Admission to Principal’s Certification Program.
Corequisite: EDLA641.
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.

EDLA643 Principal’s SeminarII 3 CR
Contact Hours: 3 + 0
Prerequisites: EDLA637 and EDLA640.
Registration Restrictions: Admission to Principal’s Certification Program.
Corequisite: EDLA641.
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.

EDLA671 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.

EDLA672 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.

EDLA673 Human Resource Management and LaborRelations 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.

EDLA674 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.
EDLA 675 Superintendent Internship 3-6 CR
Contact Hours: 0 + 9-18
Prerequisites: (EDLA 676 or concurrent enrollment) or (EDLA 677 or concurrent enrollment).
Registration Restrictions: Admission to the Ed Leadership Superintendent program and completion of any two of EDLA 671, A672, A673, and A674.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: May be repeated for a maximum of 6 credits.
Fieldwork in an appropriate educational or agency setting. Assignment will be respective to the superintendent.

EDLA 676 Superintendent Seminar I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the Ed Leadership Superintendent program and completion of any two of EDLA 671, A672, A673, and A674.
Corequisite: EDLA 675.
Special Fees.
Theories of policy development and implementation, school-community relations, and instructional reform with a focus on state and local events and issues. Supplements EDLA 675. Provides opportunity to interns for structured reflection and added input.

EDLA 677 Superintendent Seminar II 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the Ed Leadership Superintendent program and completion of any two of EDLA 671, A672, A673, and A674.
Corequisite: EDLA 675.
Special Fees.
Theories of policy development and implementation, human resource management, and district level finance and facilities management. Supplements EDLA 675. Provides opportunity to interns for structured reflection and added input.

EDPE  A170 Survey of Adventure Education Activities 1 CR
Contact Hours: .5 + 1
Special Fees.
Overview of adventure education activities including initiatives and challenge courses. Emphasis on participation and reflection, with an introduction to theoretical underpinnings.

EDPE A175 Orientation to Health, Outdoor and Physical Education 2 CR
Contact Hours: 2 + 0
Survey of discipline and profession of physical education, including fitness, sports and recreation. Provides overview of theories, methods, and application, with a particular emphasis on schools and youths. Examination of career opportunities.

EDPE A200 Varsity Athletics 1 CR
Contact Hours: 0 + 3
Registration Restrictions: NCAA
Grade Mode: Pass/No Pass.
Special Note: May be repeated three times. One credit per academic year per sport.
Student-athletes will be required to successfully participate in team meetings, conditioning, practice, competition, and other required athletically related activities.

EDPE A220 Physical Education 2 CR
Contact Hours: 2 + 0
Prerequisites: BIOL A111 or BIOL A114.
A study of fundamental mechanics with application limited to the human body, especially in exercise and sports activities, with some laboratory demonstrations to develop skills in both qualitative and quantitative analyses.

EDPE A230 Environmental Education 3 CR
Contact Hours: 2 + 2
Prerequisites: AWS A102 or BIOL A111.
An introduction and overview of environmental education. Focuses on history, philosophy, values, goals, model programs/curricula, and current issues. Includes interpretation, educational, and natural history aspects of biology, geology, climatology, and other natural sciences.

EDPE A322 Practicum in Physical Education 1 CR
Contact Hours: 0 + 3
Registration Restrictions: Admission into the health, outdoor and physical education program.
Special Note: May be repeated for maximum of two credits.
Student serves as a student-assistant in an EDPE 100- level class, or obtains equivalent experience in a local school or recreation program.

EDPE A333 Organization and Administration of Health, Outdoor, and Physical Education 3 CR
Contact Hours: 3 + 0
Issues around the initiation, development, implementation and evaluation of programs in health outdoor, and physical education. Specific topics include developing program paradigms, use of computer software, program evaluation and public relations strategies.

EDPE A334 Tests and Measurements in Health, Outdoor, and Physical Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission into the health, outdoor, and physical education program.
Theory and application of the evaluation process in physical education including basic statistics; formation of measurable behavioral objectives; written test construction; survey of fitness and skill tests; their selection, administration, and interpretation of results; and the use of basic computer programs to calculate various statistical values.

EDPE A335 Introduction to Exercise Physiology 3 CR
Contact Hours: 2 + 3
Prerequisites: BIOL A111 and BIOL A114.
An intensive study of acute and chronic physiological adaptations to the stress of exercise, with special emphasis on physical exertion in the cold. Laboratory experiments will provide the opportunity for students to apply their practical knowledge.

EDPE A336 Kinesiology 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A111 and BIOL A114.
A study of fundamental mechanics with application limited to the human body, especially in exercise and sports activities, with some laboratory demonstrations to develop skills in both qualitative and quantitative analyses.

EDPE A337 Introduction to Sports Medicine 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A111 and BIOL A114.
An introduction to the basic concepts involved in the prevention, assessment, care, transport, treatment, and rehabilitation involved in athlete-related injuries.

EDPE A338 Human Motor Development and Learning 3 CR
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 3 CR
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**  
3 CR  
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  
working knowledge of the liabilities 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 A347  
**Personal Wellness: A Secondary Physical Education**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Admittance into the health, outdoor, and physical  
education program.  
Explores developmentally appropriate, functional lifetime leisure curriculum  
options for the secondary school student. A focus on empowering students  
through the use of motivational, educational and participatory curricula that focus  
on the cognitive, affective, motor and fitness domains.

EDPE A350  
**Socio-Psychological Bases of Physical Education and Sport and Recreation**  
3 CR  
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 A430  
**Fieldwork in Health, Outdoor, and Physical Education**  
3 CR  
Contact Hours: 0 + 9  
Registration Restrictions: Admission to teacher certification 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.

EDPE A431  
**Methods of Teaching Physical Education**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Admittance into the health, outdoor, and physical  
education program. Successful completion of PPST.  
Corequisite: EDPE A430.  
Philosophy, curriculum development, methods for facilitating learning and  
behavior modification, measurement and evaluation, observations and teaching in  
elementary and secondary school physical education.

EDPE A432  
**Classroom Teaching of Health Enhancement**  
3 CR  
Contact Hours: 2 + 3  
Registration Restrictions: General Education degree requirements and admission  
to the School of Education.  
Philosophy, resource materials, group activities, and program planning;  
participation required to gain knowledge, values, and skills needed to teach health  
and physical education to elementary school-aged children. Students will observe  
health and/or physical education lessons in appropriate educational settings.

EDPE A434  
**Advanced Exercise Physiology**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: EDPE A335.  
Intensive study of acute and chronic physiological adaptations to the stress of  
exercise, with special emphasis on physical exertion in the cold, with some  
laboratory demonstrations that will provide an opportunity for students to apply  
their practical knowledge.

EDPE A435  
**Methods of Teaching Sport Pedagogy**  
3 CR  
Contact Hours: 2 + 2  
Registration Restrictions: Complete all required 100- and 200-level EDPE  
courses. Concurrent enrollment in 300-level required EDPE courses.  
Special Fees.  
Develop a working knowledge of the theory and practice of cutting edge  
teaching strategies in sport pedagogy as well as skills necessary for successful  
participation.

EDPE A436  
**Methods of Teaching Adventure Education**  
3 CR  
Contact Hours: 2 + 2  
Prerequisites: EDPE A101 and EDPE A150.  
Overview of methods and techniques necessary to effectively and safely teach  
adventure education programs for older adults. Creative and meaningful movement  
experiences as well as the physiology of the aging individual will be addressed.

EDPE A437  
**Methods of Teaching School Health Education**  
3 CR  
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 A438  
**Methods of Teaching Adapting Instruction**  
3 CR  
Contact Hours: 2 + 2  
Registration Restrictions: Complete all 100- and 200-level EDPE courses. Concurrent enrollment in 300-level required EDPE courses.  
Special Fees.  
Develop a working knowledge of theory and practice of cutting edge teaching  
strategies for adapting instruction in health, outdoor, and physical education.

EDPE A439  
**Methods of Teaching Fitness Activities**  
3 CR  
Contact Hours: 2 + 2  
Registration Restrictions: Complete all 100- and 200-level required EDPE  
courses. Concurrent enrollment in 300-level required EDPE courses.  
Special Fees.  
Develop a working knowledge of the theory and practice of cutting edge  
teaching strategies in fitness activities as well as skills necessary for successful  
participation.

EDPE A440  
**Methods of Teaching Lifelong Activities**  
3 CR  
Contact Hours: 2 + 2  
Registration Restrictions: Admittance into health, outdoor, and physical education  
program.  
Special Fees.  
Develop a working knowledge of the theory and practice of cutting edge  
teaching strategies in lifelong activities as well as skills necessary for successful  
participation.

EDPE A441  
**Methods of Teaching Expressive Movement**  
3 CR  
Contact Hours: 2 + 2  
Prerequisites: EDPE A150.  
Overview of methods and techniques necessary to effectively and safely teach  
expressive movements in K-12. Applications include rhythms and dance  
education, tumbling, and educational gymnastics. Covers design, implementation  
and evaluation.

EDPE A442  
**Exercise and Aging**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Complete all 100- and 200-level required EDPE  
courses. Concurrent enrollment in 300-level required EDPE courses.  
Develop the attitude, knowledge and skills needed to lead physical activity  
programs for older adults. Creative and meaningful movement experiences as well  
as the physiology of the aging individual will be addressed.

EDPE A443  
**Contemporary Issues in Health, Outdoor, and Physical Education**  
1-3 CR  
Contact Hours: 1-3 + 0  
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 A444  
**Methods of Teaching Aquatic Activities**  
3 CR  
Contact Hours: 2 + 2  
Prerequisites: EDPE A112.  
Special Fees.  
Develop skills necessary to teach swimming, water safety courses, and other  
aquatic activities. Improves the use of block plans and lesson plans for use in  
planning and organizing aquatic activities. Designed for intermediate level to  
adult competitive swimmers, or physical education majors. Satisfies requirements  
for an American Red Cross water safety instructor certification.

EDPE A452  
**Student Teaching in Physical Education**  
12 CR  
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.

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### COURSE DESCRIPTIONS

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<th>Credits</th>
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<td>EDSE A495</td>
<td>Outdoor Education Leadership Practicum</td>
<td>3-6 CR</td>
<td>0-9-18</td>
<td>EDPE A170 and EDPE A240 or (EDSE A325 and EDPE A162) or EDPE A262.</td>
<td>Special Fees.</td>
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<td>Special Note: Repeatable to a maximum of 6 credits.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>EDSE A312</td>
<td>Human Development and Learning</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ED A201 and (ED A321 or concurrent enrollment).</td>
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<tr>
<td></td>
<td>Emphasizes the cognitive, physical, emotional, and communicative development of children and youth. Includes discussion of the impact of disabilities on learning and requisites for learning and instruction.</td>
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<tr>
<td>EDSE A336</td>
<td>Classroom Management and Collaboration</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ED A201 and (ED A321 or concurrent enrollment).</td>
<td>Registration Restrictions: Admission to Teacher Education.</td>
<td>Special Fees</td>
<td></td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>EDSE A419</td>
<td>Diversity in the Classroom</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Admission to School of Education.</td>
<td></td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Examination of diversity issues that impact education including linguistic and cultural considerations as well as disabilities. Course includes instructional methods and practices that enhance learning.</td>
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<tr>
<td>EDSE A640</td>
<td>Exceptional Learner</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: EDSE A312.</td>
<td>Registration Restrictions: Admission to School of Education.</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Introduction to the field of special education. Covers the nature and characteristics of various physical and mental exceptionailities included in the special education populaion.</td>
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<tr>
<td>EDSE A474</td>
<td>Special Children from Birth through Five</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Admission to School of Education.</td>
<td></td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>EDSE A480</td>
<td>Culture, Schools, and Society</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ED A321.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>EDSE A482</td>
<td>Inclusive Classrooms for All Children</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: PSY A245.</td>
<td>Registration Restrictions: Department approval required; Admission to the School of Education.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>EDSE A610</td>
<td>Assessment: Behavior/Academic</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: (EDSE A460 or concurrent enrollment) and (EDSE A614 or concurrent enrollment).</td>
<td>Registration Restrictions: Graduate Standing.</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Techniques and methods for assessing students who have disabilities. Focuses on the purposes and assumptions of assessment, testing terminology and statistics, and the administration of formal and informal assessment procedures.</td>
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<tr>
<td>EDSE A610Y</td>
<td>Assessment: Early Childhood Special Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Graduate Standing.</td>
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<td>Special Fees</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>EDSE A612</td>
<td>Curriculum &amp; Instruction in Special Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: (EDSE A460 or concurrent enrollment).</td>
<td>Registration Restrictions: Graduate Standing.</td>
<td>Special Fees</td>
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<td></td>
<td>Addressses curriculum development and implementation for students with disabilities. Includes writing Individual Education Programs and using effective classroom management practices.</td>
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<tr>
<td>EDSE A614</td>
<td>Beginning Internship in Special Education</td>
<td>3 CR</td>
<td>1 + 6</td>
<td>Prerequisites: (EDSE A460 or concurrent enrollment) and (EDSE A610 or concurrent enrollment) and (EDSE A612 or concurrent enrollment).</td>
<td>Registration Restrictions: Admission to Endorsement Program in Special Education.</td>
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<td>Field experience with children or adolescents who have disabilities. Assignment varies across areas of teaching specialization. Includes weekly seminar.</td>
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<tr>
<td>EDSE A620</td>
<td>Advanced Internship in Special Education</td>
<td>3-6 CR</td>
<td>1 + 6-15</td>
<td>Prerequisites: EDSE A460 and EDSE A610 and EDSE A612 and EDSE A614.</td>
<td>Grade Mode: Pass/No Pass.</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Field experience with children and/or adolescents who have disabilities in public schools and other school programs. Assignments vary across areas of teaching specialization.</td>
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<tr>
<td>EDSE A620Y</td>
<td>Advanced Internship: Early Childhood</td>
<td>3-6 CR</td>
<td>1 + 6-15</td>
<td>Registration Restrictions: Admission to Endorsement Program in Special Education, instructor approval, and graduate standing.</td>
<td>Grade Mode: Pass/No Pass.</td>
<td>Special Fees</td>
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<tr>
<td></td>
<td>Supervised field experience with exceptional children in Anchorage area facilities. Assignments vary across areas of specialization.</td>
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<tr>
<td>EDSE A622</td>
<td>Educational Strategies in Special Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: EDSE A460 and EDSE A610 and EDSE A612.</td>
<td>Registration Restrictions: Admission to Endorsement Program in Special Education and graduate standing.</td>
<td>Special Fees</td>
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<td></td>
<td>Present 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.</td>
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<tr>
<td>EDSE A622Y</td>
<td>Strategies: Early Childhood Special Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Graduate Standing.</td>
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<td>Special Fees</td>
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<td>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.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>EDSE A640</td>
<td>Advanced Theories of Disabilities</td>
<td>3 CR</td>
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</tr>
</tbody>
</table>
| 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 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 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 I                     | 4 CR    |
| Contact Hours: 3 + 3  
Prerequisites: CS A101 and [MATH A107 or MATH A270].  
Registration Restrictions: Any programming language course.  
   Presents fundamental formats for data storage, number systems, alpha-numeric codes, and arithmetic operations within computers. Provides familiarization with and practice using electronic devices as building blocks for construction of computer components. Relates components to design requirements for computer processing, memory, and control functions. |

**Emergency Medical Technology - EMT**

Offered through the Community and Technical College  
EMT A110 Emergency Trauma Technician | 3 CR |
Contact Hours: 2 + 2  
Special Fees.  
   Alaska State certified basic emergency medical course beyond advanced first aid. Emphasizes prevention, assessment, and care of injury and illness commonly encountered in both urban and rural settings. |
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EMT A130</td>
<td>Emergency Medical Technician I</td>
<td>6 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 4 + 4</td>
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<td></td>
<td>Registration Restrictions: Provide evidence of CPR training</td>
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<td></td>
<td>and certification that includes adult, child, and infant</td>
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<td></td>
<td>CPR and airway obstruction relief maneuvers, including two</td>
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<td></td>
<td>rescuer CPR and barrier devices. Training and certification</td>
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<tr>
<td></td>
<td>as approved by State of Alaska Department of Health and Social</td>
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<td></td>
<td>Services, Division of Public Health, Section of Community</td>
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<td></td>
<td>Health, and Emergency Medical Services. Special Fees.</td>
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<td></td>
<td>Special Note: Students must have the strength to be able</td>
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<td></td>
<td>to move victims, sufficient vision to assess condition of</td>
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<td>victims, and dexterity to perform the skills application</td>
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<td></td>
<td>procedures. Provides the necessary training to become state</td>
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<td></td>
<td>or nationally registered as an EMTI, which is optional.</td>
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<td></td>
<td>Proficiency in victim assessment, recognition and treatment</td>
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<td></td>
<td>of medical emergencies and other basic life support</td>
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<td></td>
<td>procedures. Includes practicum experience in hospitals,</td>
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<td>emergency rooms, or other sites.</td>
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<tr>
<td>EMT A230</td>
<td>Emergency Medical Technician II</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 2 + 2</td>
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<td>Registration Restrictions: Meet all requirements for EMTI</td>
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<td>and have 6 months experience. Must have approval of DHSS</td>
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<td>approved physician. Special Note: Students desiring Alaska</td>
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<td>certification must pass, within six months after completing</td>
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<td>the education program, the written and practical examination</td>
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<td>for Emergency Medical Technician II administered by the</td>
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<td></td>
<td>Department of Health and Social Services (DHSS). Intermediate</td>
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<td></td>
<td>EMT course including EMTIs with added skills of esophageal</td>
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<td>intubation, specialized tourniquets, and intravenous treatment.</td>
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<tr>
<td>ENGL A109</td>
<td>Practical Writing</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>Registration Restrictions: C or better in PRPE A086 or</td>
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<td></td>
<td>appropriate score on English Placement Test. Special Fees.</td>
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<td></td>
<td>Alternative to PRPE A108. Instruction in skills necessary</td>
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<td>to meet day-to-day demands in composition. Emphasis on</td>
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<td>paragraph development in business letters and memos, short</td>
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<tr>
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<td>essays, essay exams, and short research papers. Includes</td>
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<td>intensive practice in formal punctuation.</td>
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<tr>
<td>ENGL A110</td>
<td>Approaches to Academic Study</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>Registration Restrictions: Score on Reading Asset Test of</td>
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<td>43 or above. Special Fees. Instruction in academic skills</td>
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<td></td>
<td>and critical thinking demanded in college work. Includes</td>
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<td>library and on-line research, time management, academic</td>
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<td>vocabulary development, note taking, text comprehension, and</td>
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<td></td>
<td>test taking.</td>
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<tr>
<td>ENGL A111</td>
<td>Methods of Written Communication</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: ENGL A109 with minimum grade of C or PRPE A108</td>
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<td></td>
<td>with minimum grade of C. Registration Restrictions: Appropriate</td>
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<td></td>
<td>score on English Placement Test, SAT Verbal Section, or ACT</td>
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<td></td>
<td>English Test will waive the ENGL A109 or PRPE A108 prerequisite.</td>
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<td></td>
<td>Course Attributes: GER Written Communication Requirement.</td>
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<td>Special Fees. Offered Fall and Spring Semesters. Instruction</td>
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<tr>
<td></td>
<td>in composition of expository essays with emphasis on different</td>
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<tr>
<td></td>
<td>techniques for organization and development. Documented</td>
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<tr>
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<td>paper required. Readings in some sections may be coordinated</td>
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<td></td>
<td>with another discipline.</td>
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<tr>
<td>ENGL A116</td>
<td>Writing Life Stories</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td>Offered only at Matanuska-Susitna College. Students will</td>
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<td>learn to write and record family history from a personal</td>
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<td>perspective, to preserve newspaper clippings and photos, and</td>
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<td>create a genealogical chart for their family.</td>
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<tr>
<td>ENGL A120</td>
<td>Critical/Creative Thinking</td>
<td>3 CR</td>
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<tr>
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<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: Average reading skills recommended.</td>
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<td>Introductory course emphasizing principles and techniques of</td>
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<td>thinking better. Focuses on critical and creative thinking</td>
<td></td>
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<tr>
<td></td>
<td>and problem solving strategies.</td>
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<tr>
<td>ENGL A121</td>
<td>Introduction to Literature</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>Course Attributes: GER Humanities Requirement. Offered Fall</td>
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<td></td>
<td>and Spring Semesters.</td>
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<tr>
<td></td>
<td>Course for non-majors. Introduction to analysis and</td>
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<tr>
<td></td>
<td>appreciation of fiction, drama, and poetry. Emphasis on</td>
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<tr>
<td></td>
<td>reading and discussion.</td>
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<tr>
<td>ENGL A150</td>
<td>Women Writers</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>A survey of women authors, with examination of how they</td>
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<tr>
<td></td>
<td>portray both women and men in their writings.</td>
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<tr>
<td>ENGL A201</td>
<td>Masterpieces of World Literature I</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: ENGL A111. Course Attributes: GER Humanities</td>
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<td></td>
<td>Requirement. Offered Fall and Spring Semesters.</td>
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<tr>
<td></td>
<td>Introductory course for majors and non-majors. Emphasizes</td>
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<td></td>
<td>understanding literature, forming critical vocabulary, and</td>
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<td></td>
<td>developing literary judgment. Selected masterpieces from</td>
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<tr>
<td></td>
<td>ancient times through the Renaissance.</td>
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<tr>
<td>ENGL A202</td>
<td>Masterpieces of World Literature II</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: ENGL A111. Course Attributes: GER Humanities</td>
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<td>Requirement. Offered Fall and Spring Semesters.</td>
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<td></td>
<td>Introductory course for majors and non-majors. Emphasizes</td>
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<td></td>
<td>understanding literature, forming critical vocabulary, and</td>
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<td></td>
<td>developing literary judgment. Selected masterpieces from</td>
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<td></td>
<td>the Renaissance to the present.</td>
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<tr>
<td>ENGL A207</td>
<td>American Prizewinners</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Interpretation and discussion of selections by American</td>
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<td>writers who have been honored nationally or internationally.</td>
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<tr>
<td>ENGL A208</td>
<td>Accelerated Reading and Comprehension</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: ENGL A111. Deals with advanced reading rates</td>
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<tr>
<td></td>
<td>and comprehension based on a broad range of reading tasks.</td>
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<td></td>
<td>Develops the ability to read at accelerated rates using</td>
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<td>speed reading, comprehension, and vocabulary skills. Critical</td>
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<td></td>
<td>book reviews required.</td>
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<tr>
<td>ENGL A210</td>
<td>Reading in the Social and Natural Sciences</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: ENGL A111. Application of critical reading</td>
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<tr>
<td></td>
<td>strategies for the social, natural, and health sciences,</td>
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<td></td>
<td>as well as professions which use the literature of these</td>
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<td></td>
<td>disciplines. Primary focus is on analyzing various scholarly</td>
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<td>journal articles and web sites. Also includes academic</td>
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<td>vocabulary development and advanced study strategies.</td>
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<tr>
<td>ENGL A211</td>
<td>Academic Writing About Literature</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: ENGL A111 with minimum grade of C. Course</td>
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<td></td>
<td>Attributes: GER Written Communication Requirement. Special</td>
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<td>Fees. Offered Fall and Spring Semesters. Instruction in</td>
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<tr>
<td></td>
<td>writing based on close analysis of literature. Develops a</td>
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<td>broad range of expository writing skills. Research paper</td>
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<td>required.</td>
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<tr>
<td>ENGL A212</td>
<td>Technical Writing</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: ENGL A111 with minimum grade of C. Course</td>
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<td></td>
<td>Attributes: GER Written Communication Requirement. Special</td>
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<td></td>
<td>Fees. Offered Fall and Spring Semesters. Instruction in</td>
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<td>composition of technical correspondence, informal, and formal</td>
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<td>reports. Develops a broad range of college and career writing</td>
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<td>skills. Investigative report required.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>ENGL A213</td>
<td>Writing in the Social and Natural Sciences</td>
<td>3 CR</td>
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<tr>
<td>ENGL A214</td>
<td>Persuasive Writing</td>
<td>3 CR</td>
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<tr>
<td>ENGL A301</td>
<td>Literature of Britain I</td>
<td>3 CR</td>
</tr>
<tr>
<td>ENGL A302</td>
<td>Literature of Britain II</td>
<td>3 CR</td>
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<tr>
<td>ENGL A305</td>
<td>Topics in National Literatures</td>
<td>3 CR</td>
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<tr>
<td>ENGL A306</td>
<td>Literature of the United States I</td>
<td>3 CR</td>
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<tr>
<td>ENGL A307</td>
<td>Literature of the United States II</td>
<td>3 CR</td>
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<tr>
<td>ENGL A310</td>
<td>Ancient Literature</td>
<td>3 CR</td>
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<tr>
<td>ENGL A311</td>
<td>Advanced Composition</td>
<td>3 CR</td>
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<tr>
<td>ENGL A312</td>
<td>Advanced Technical Writing</td>
<td>3 CR</td>
</tr>
<tr>
<td>ENGL A313</td>
<td>Professional Writing and Editing</td>
<td>1-3 CR</td>
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<tr>
<td>ENGL A320</td>
<td>Renaissance Literature</td>
<td>3 CR</td>
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<tr>
<td>ENGL A325</td>
<td>Neoclassical Literature</td>
<td>3 CR</td>
</tr>
<tr>
<td>ENGL A330</td>
<td>Literature of Romanticism</td>
<td>3 CR</td>
</tr>
<tr>
<td>ENGL A340</td>
<td>The Victorian Period</td>
<td>3 CR</td>
</tr>
<tr>
<td>ENGL A342</td>
<td>The Modernist Period</td>
<td>3 CR</td>
</tr>
<tr>
<td>ENGL A345</td>
<td>Contemporary Literature</td>
<td>3 CR</td>
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<tr>
<td>ENGL A344</td>
<td>Topics in Native Literatures</td>
<td>3 CR</td>
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</table>
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.
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 A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A311 with minimum grade of C or ENGL A312 with minimum grade of C.
Course Attributes: GER Written Communication Requirement.
Special Fees.
Offered 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.
Offered Alternate 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.
Special Fees.
Offered Fall and Spring Semesters.
Critical theory from its classical origins to the present.

ENGL A440  Topics in 20th Century Comparative Literature  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: May be repeated once for credit with a change of subtitle.
Offered Alternate Spring Semesters.
Comparative analysis of works from international or other special literatures, such as ethnic American literatures. Selections from literature and contextual readings in poetics and literary history.

ENGL A445  Alaska Native Literatures  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C.
Course Attributes: GER Humanities Requirement.
Study of traditional, historical stories and contemporary texts written by Alaska Natives.

ENGL A450  Linguistics and Language Teaching  4 CR
Contact Hours: 3 + 2
Prerequisites: LING A101.
Offered Alternate Fall Semesters.
A survey of linguistics principles and methods for teachers of English, ESL, and other languages. Includes topics such as language structure, language variation, the linguistics of reading, and the linguistics of writing. Emphasis on developing practical teaching techniques. In addition to class time, requires two hours weekly practicum.

ENGL A452  English Grammar and Language Teaching  4 CR
Contact Hours: 3 + 2
Prerequisites: ENGL A211 or ENGL A212 or ENGL A213.
Offered Alternate Spring Semesters.
An exploration of major features of American English grammar for teachers of English, ESL, and other languages. Includes topics such as theories about the development of grammatical competence, the tense-aspect system, the article system, types of modification, and structures that show relationships between ideas. Emphasis on developing practical teaching techniques. In addition to class time, requires weekly two hour practicum.
ENGL A475  Modern Grammar  3 CR
Contact Hours:  3 + 0
Prerequisites: LING A201.
Special Note: Recommended for students in education with a teaching major or
minor in English.

demands of the English language from prehistoric times to the
present.

ENGL A476  History of English Language  3 CR
Contact Hours:  3 + 0
Registration Restrictions: LING A101 is recommended but not required.
Offered Fall Semesters.

Origins and development of the English language from prehistoric times to the
present.

ENGL A487  Standard Written English  3 CR
Contact Hours:  3 + 0
Prerequisites: LING A201.
Offered Fall Semesters.

Analysis of English emphasizing traditional grammar, standard usage, and
rhetoric.

ENGL A490  Selected Topics in English  1-3 CR
Contact Hours:  1-3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: May be repeated for a maximum of 6 degree credits with a change of
subtitle.

Current topics in English language and literature, arising from special
circumstances of demand or faculty expertise.

ENGL A491  Topics in Composition and Rhetoric  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with
minimum grade of C or ENGL A213 with minimum grade of C.
Special Note: Applies once toward Rhetoric and Language theory requirement for
Rhetoric Option; may be repeated once with a change of subtitle for elective
credit.

Study of composition and rhetoric as an academic field with a focus on
topics, issues, perspectives, and activities around which the field organizes
itself. Examples include the study of Composition Theory and Pedagogy,
Computers and Teaching Composition, and Origins of Rhetoric.

ENGL A492  English Honors Seminar  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Admission to English Honors Program.
Special Note: Admission is selective and based on space available; departmental
permission required.

Advanced practice in research and writing in the field of literature or rhetoric
studies. These skills are developed in the context of an intensive study of a
sharply focused topic in literature or rhetoric (for example, a major author, a
limited historical period, a single school of thought, a narrowly defined subgenre).
In addition, students receive a thorough grounding in one approach to critical
theory currently practiced in the discipline.

ENGL A495  Internship in Professional Writing  1-3 CR
Contact Hours:  0 + 3-9
Prerequisites: ENGL A211 with minimum grade of B or ENGL A212 with
minimum grade of B or ENGL A213 with minimum grade of B.
Registration Restrictions: Faculty permission required.

Advanced application of writing skills in a professional work setting.

ENGL A499  English Honors Thesis  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A492 with minimum grade of B.
Special Note: May not be repeated for credit.

ENGL A601  Introduction to Graduate Studies in English  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Special Note: Must be completed before the student advances to candidacy for the
MA.
Offered Fall Semesters.

Advanced study and practice of the skills required for graduate studies in
English. Involves sophisticated bibliographical research and textual editing, as
well as an analysis of the nature and scope of the discipline itself and the
languages peculiar to it.

ENGL A602  Contemporary Critical Theory  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Offered Spring Semesters.

Spectrum of major types of critical theory currently practiced in American
research universities and their specific role in shaping English departments and
programs.

ENGL A604  Studies in Women's Literature  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with change of subtitle.
Offered Alternate Spring Semesters.

Advanced study of particular topics in literature by women writers.

ENGL A606  Studies in the Development of the English Language  3 CR
Contact Hours:  3 + 0
Special Note: May be repeated once for degree credit with a change of subtitle.
Offered Alternate Fall Semesters.

Advanced study of particular topics, trends, and issues in the development of
English as a national and global language.

ENGL A607  Studies in American Literature  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle.
Offered Alternate Spring Semesters.

Advanced study of particular topics and issues in American literature.

Readings will include not only primary texts but also secondary discussions of
theories of American literature and literary history.

ENGL A615  Studies in Medieval Literature  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle.
Offered Alternate Spring Semesters.

Advanced study of particular topics in Medieval Western literature.

ENGL A620  Studies in Renaissance Literature  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle.
Offered Alternate Spring Semesters.

Advanced study of particular topics in the literature of the European
Renaissance.

ENGL A625  Studies in Neoclassical Literature  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle.
Offered Alternate Fall Semesters.

Advanced study of particular topics in the literature of the late seventeenth and
eighteenth centuries.

ENGL A630  Studies in the Literature of Romanticism  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle.
Offered Alternate Fall Semesters.

Advanced study of particular topics in the literature of the Romantic period.

ENGL A636  Studies in Modern Criticism  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle.
Offered Alternate Fall Semesters.

Advanced study of particular topics in twentieth century critical theory and
practice.

ENGL 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 Fall 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 Spring 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 nonfictional forms, techniques, schools, or traditions.

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/
AYENVI@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 Introduction to Environmental Studies 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 and MATH A105.
Registration Restrictions: GER Social Sciences Requirement.
Course Attributes: GEIB 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.
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 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, ecofeminism, and animal rights theories will be examined in detail. There will also be a focus on the ethical issues surrounding contemporary environmental controversies, such as land management, wildlife management, wilderness designation, sustainability, biodiversity and species preservation, private property and public commons, environmental racism, human overpopulation, development versus preservation, laboratory use of animals, vivisection, animal farming, subsistence, and sports hunting.

ENVI A492 Proseminarin 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 UA 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/naturalical 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.uaa.alaska.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.

University of Alaska Anchorage 2001-2002 Course Catalog
http://www.uaa.alaska.edu
Chapter 11 Page 331
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES A111</td>
<td>Engineering Science</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Registration Restrictions: High school algebra and trigonometry or concurrent enrollment in MATH A200 required. Special Fees. Offered Fall and Spring Semesters.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>ES A201</td>
<td>Computer Techniques</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>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.</td>
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</tr>
<tr>
<td>ES A209</td>
<td>Engineering Statics</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: [ES A111 or 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.</td>
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</tr>
<tr>
<td>ES A210</td>
<td>Engineering Dynamics</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>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.</td>
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</tr>
<tr>
<td>ES A301</td>
<td>Engineering Analysis</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: ES A201 and MATH A302. Special Fees. Offered Fall Semesters. Application of mathematical tools to engineering with emphasis on mathematical formulation of typical engineering problems. Selected topics from all fields of engineering.</td>
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</tr>
<tr>
<td>ES A302</td>
<td>Engineering Data Analysis</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: MATH A201 and ES A201. Analytical and spreadsheet methods appropriate to the solution of engineering problems using the concepts from probability and statistics.</td>
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<tr>
<td>ES A309</td>
<td>Elements of Electrical Engineering</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: PHYS A212 and (MATH A302 or concurrent enrollment). Offered Fall Semesters. Electrical fundamentals: elementary circuit analysis, network theorems, steady state, and transient analysis of DC circuits with resistors and one energy storage device (Lor 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.</td>
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<tr>
<td>ES A331</td>
<td>Mechanics of Materials</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>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.</td>
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<tr>
<td>ES A341</td>
<td>Fluid Mechanics</td>
<td>4 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 3</td>
<td>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.</td>
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<tr>
<td>ES A346</td>
<td>Basic Thermodynamics</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td>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.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>ESM A401</td>
<td>Cost Estimating</td>
<td>3 CR</td>
</tr>
<tr>
<td>ESM A450</td>
<td>Economic Analysis and Operations</td>
<td>3 CR</td>
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<tr>
<td>ESM A401</td>
<td>Engineers in Organizations</td>
<td>3 CR</td>
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<tr>
<td>ESM A605</td>
<td>Engineering Economy</td>
<td>3 CR</td>
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<tr>
<td>ESM A610</td>
<td>Project Management</td>
<td>3 CR</td>
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<tr>
<td>ESM A410</td>
<td>Management of Technical People</td>
<td>3 CR</td>
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<tr>
<td>ESM A617</td>
<td>Technology Management</td>
<td>3 CR</td>
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<tr>
<td>ESM A619</td>
<td>Computer Simulation of Systems</td>
<td>3 CR</td>
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<tr>
<td>ESM A620</td>
<td>Statistics for ESM</td>
<td>3 CR</td>
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<tr>
<td>ESM A621</td>
<td>Operations Research</td>
<td>3 CR</td>
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<tr>
<td>ESM A622</td>
<td>Management Decision Under Uncertainty</td>
<td>3 CR</td>
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<tr>
<td>ESM A623</td>
<td>Total Quality Management</td>
<td>3 CR</td>
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<tr>
<td>ESM A625</td>
<td>Marketing of Business Products and Services</td>
<td>3 CR</td>
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<td>ESM A684</td>
<td>ESM Project</td>
<td>3 CR</td>
</tr>
<tr>
<td>ESM A698</td>
<td>Individual Research</td>
<td>1-6 CR</td>
</tr>
</tbody>
</table>

*Offered through the School of Engineering, Engineering Building (ENGR), Room 201, 786-1900*
### Course Descriptions

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>ESM A699</td>
<td>ESM Thesis</td>
<td>1-9 CR</td>
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<tr>
<td>ET A101</td>
<td>Basic Electronics: DC Physics</td>
<td>4 CR</td>
</tr>
<tr>
<td>ET A102</td>
<td>Basic Electronics: AC Physics</td>
<td>4 CR</td>
</tr>
<tr>
<td>ET A103</td>
<td>Electronic Concepts and Devices</td>
<td>4 CR</td>
</tr>
<tr>
<td>ET A104</td>
<td>DC Circuits</td>
<td>4 CR</td>
</tr>
<tr>
<td>ET A106</td>
<td>Electronics Laboratory I</td>
<td>4 CR</td>
</tr>
<tr>
<td>ET A111</td>
<td>Electronics Laboratory II</td>
<td>4 CR</td>
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<tr>
<td>ET A120</td>
<td>Motors and Controls</td>
<td>3 CR</td>
</tr>
<tr>
<td>ET A122</td>
<td>Introduction to Electronic Devices</td>
<td>3 CR</td>
</tr>
<tr>
<td>ET A123</td>
<td>Electronic Circuit Fundamentals</td>
<td>3 CR</td>
</tr>
<tr>
<td>ET A124</td>
<td>Electronic Calculations II</td>
<td>4 CR</td>
</tr>
<tr>
<td>ET A125</td>
<td>AC Circuits</td>
<td>4 CR</td>
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<tr>
<td>ET A126</td>
<td>Principles of Logic and Gating</td>
<td>4 CR</td>
</tr>
<tr>
<td>ET A127</td>
<td>Microprocessor Fundamentals</td>
<td>3 CR</td>
</tr>
<tr>
<td>ET A128</td>
<td>Solid State Electronics: Theory and Laboratory</td>
<td>4 CR</td>
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<tr>
<td>ET A150</td>
<td>Basic Microcomputer Electronics</td>
<td>4 CR</td>
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<tr>
<td>ET A151</td>
<td>Basic Electricity</td>
<td>4 CR</td>
</tr>
<tr>
<td>ET A160</td>
<td>D.C. Electrical Systems</td>
<td>3 CR</td>
</tr>
<tr>
<td>ET A161</td>
<td>D.C. Lab</td>
<td>1 CR</td>
</tr>
</tbody>
</table>

**Electronics Technology - ET**

[http://www.uaa.alaska.edu/et/dir1.htm](http://www.uaa.alaska.edu/et/dir1.htm)

**Offered through the Community & Technical College**

Gordon Hartlieb Building (GHB), Room 106, 786-6465

Contact Hours: 4 + 0

Prerequisites: ET A101.

Offered only at Kenai Peninsula 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 A101**

Basic Electronics: DC Physics

- Contact Hours: 3 + 3
- Prerequisites: MATH A055.

Offered only at Matanuska-Susitna College.

A first course in electricity for the non-electronics major. Covers basic DC and AC theory including series, parallel, and series-parallel circuits, reactance, impedance and selected circuit analysis techniques. This lab will emphasize practical measurement with meters and oscilloscopes.

**ET A102**

Basic Electronics: AC Physics

- Contact Hours: 3 + 3
- Prerequisites: ET A101.

Offered only at Matanuska-Susitna 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 A103**

Electronic Concepts and Devices

- Contact Hours: 3 + 2
- Registration Restrictions: MATH A055 or higher, high school algebra, or a passing grade on the Electronics Technology Department placement test.

Presents the elementary concepts of semiconductor devices and applied math concepts related to Electronics Technology. Subjects include semiconductor physics, diode junctions, specialty diodes, and diode applications.

**ET A104**

DC Circuits

- Contact Hours: 4 + 0
- Corequisite: ET A104.

4-hours lecture per week. Principles of direct current electricity. Covers atomic structure, Ohm’s law, Kirchhoff’s laws, series circuits, parallel circuits, series-parallel circuits, network theorems, electronic meter theory, basic semiconductor theory, voltage sources. Emphasis on circuit analysis and problem solving.

**ET A106**

Electronics Laboratory I

- Contact Hours: 2 + 4
- Corequisite: ET A104.

2-hours lecture and 4-hours lab per week. Class covers electronic experiments and projects for ET104. Familiarizes students with basic test equipment, soldering techniques, and personal safety. Lab experiments in voltage sources, current flow, resistance and projects involving series, parallel, and series-parallel circuits.

**ET A111**

Electronics Laboratory II

- 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 experiences in frequency measurement, AC voltage measurement, voltage-current phase angle, time constant, and resonant circuit will be covered.

**ET A120**

Motors and Controls

- Contact Hours: 3 + 0
- Crosslisted with: AGRI A133 and RH A120.

Offers basic concepts of computer systems and develops both operating and introductory programming skills. Covers basic microcomputer systems, applications, operating systems, and peripherals to begin preparing students to take the “A+ Computer Service Technician” examination.

**ET A122**

Introduction to Electronic Devices

- Contact Hours: 3 + 0
- Prerequisites: ET A125.

A study of vacuum tube and solid state devices. Physics, construction, characteristics, parameters, application, and limitations are covered.

**ET A123**

Electronic Circuit Fundamentals

- 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

- 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 A125**

AC Circuits

- Contact Hours: 3 + 2
- Prerequisites: ET A103 and ET A104 and ET A106.

3-hours lecture and 2-hours lab per week. Covers principles of alternating current and voltages through linear amplifiers, magnets, impedance, circuits, resonance, filters, and basic power supplies. Lab consists of designing, constructing, and measuring circuits to reinforce theory covered in lectures.

**ET A126**

Principles of Logic and Gating

- 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

- Contact Hours: 3 + 0
- Prerequisites: ET A126.

Special Fees.

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

- Contact Hours: 3 + 3
- Prerequisites: ET A103 and ET A104 and ET A106.

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**

Basic Microcomputer Electronics

- Contact Hours: 3 + 2
- Prerequisites: ET A126 with minimum grade of C.

Special Fees.

Provides basic concepts of computer systems and develops both operating and introductory programming skills. Covers basic microcomputer systems, applications, operating systems, and peripherals to begin preparing students to take the “A+ Computer Service Technician” examination.

**ET A151**

Basic Electricity

- Contact Hours: 3 + 3
- Prerequisites: MATH A055.

Offered only at Kenai Peninsula College.

A first course in electricity for the non-electronics major. Covers basic DC and AC theory including series, parallel, and series-parallel circuits, reactance, impedance and selected circuit analysis techniques. This lab will emphasize practical measurement with meters and oscilloscopes.

**ET A160**

D.C. Electrical Systems

- Contact Hours: 3 + 0
- Corequisite: ET A161.

Covers basic D.C electrical concepts, definitions, laws, and applications. Introduces passive electrical components, schematic symbols, wiring diagrams, power sources, and distribution systems.

**ET A161**

D.C. Lab

- Contact Hours: 0 + 3
- Corequisite: ET A160.

Presents methods of safe and accurate measurement of D.C. electrical quantities using basic electrical test equipment. Covers equipment connection, testing methods and operation to observe electrical component characteristics to troubleshoot defective circuits. Power sources, distribution systems, schematic and wiring diagrams will also be covered.
includes standard logic interfacing, logic family interfacing, circuit design, elementary semiconductor physics, diode characteristics, diode applications, methodology, multiplexing, media, and design criteria. Discusses governing alternating current signal and power sources. Includes A.C. fundamentals, multivibrators, timers, analog and digital converters, memory distribution techniques.

**ET A166 Technical Calculations and Applications**
Contact Hours: 1 + 5
Introduces basic semiconductor fundamentals and parameters. Covers elementary semiconductor physics, diode characteristics, diode applications, transistor parameters, and transistor applications.

**ET A167 Technical Introduction to Microcomputers**
Contact Hours: 3 + 0
Introduces the principles and practical applications of digital electronics used by computers, communications equipment, and control systems. Topics will include digital logic gates, binary numbers, flip-flops, registers, counters, and shift registers.

**ET A168 Advanced Semiconductors**
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 A169 Advanced Digital Devices**
Contact Hours: 1.5 + 2
Prerequisites: ET A165.
Introduces 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 A170 Applied ICs**
Contact Hours: 1.5 + 2
Prerequisites: ET A164.
Introduces 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 A173 Data Communications**
Contact Hours: 1 + 5
Prerequisites: ET A164 and ET A165.
Provides a general introduction to the topic of data communications, including an overview of networking, buses, multiplexing, and related topics. Provides an introduction to the common protocols used in communication systems, including RS-232 and HDLC. Topics cover the principles of computer interface, multiplexing, and asynchronous serial communication devices.

**ET A174 Telecommunications**
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 A180 Transmitters and Receivers**
Contact Hours: 2 + 3
Prerequisites: ET A184.
Examines 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 A185 Selected Topics in Electronics Technology**
Contact Hours: 1 + 4 + 0-12
Prerequisites: ET A184.
Explores 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 A190 Residential Wiring**
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 A204 TransmitterCircuitry**
Contact Hours: 3 + 1
Prerequisites: ET A205.
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 A205 ReceiverCircuitry**
Contact Hours: 3 + 1
Prerequisites: ET A205.
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 A212 Personal Computer Servicing**
Contact Hours: 1 + 4
Prerequisites: ET A126 and ET A127.
Teaches how to service, maintain, upgrade and optimize personal computers, from general circuitry theory to preventive maintenance to module/board level troubleshooting to repair and system configuration.

**ET A213 Personal Computer Troubleshooting**
Contact Hours: 1 + 4
Prerequisites: ET A126 and ET A127.
Teaches computer troubleshooting to the component level using factory test equipment and technical service manuals.

**ET A214 Personal ComputerNetworking**
Contact Hours: 1 + 4
Prerequisites: ET A212 and ET A127 and ET A216.
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**
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**
Contact Hours: 3 + 1
Prerequisites: ET A225.
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**
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 servos systems, and large current polyphase rectifiers.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ET A230</td>
<td>Telecommunications</td>
<td>4 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 2</td>
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<td></td>
<td>Prerequisites: ET A124 and ET A125 and ET A126 and ET A128.</td>
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<td></td>
<td>Special Fees.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ET A231</td>
<td>Audio</td>
<td>4 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 2</td>
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<tr>
<td></td>
<td>Prerequisites: ET A124 and ET A125 and ET A126 and ET A128.</td>
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<td>Special Fees.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ET A232</td>
<td>Applied ICS</td>
<td>4 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 2</td>
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<tr>
<td></td>
<td>Prerequisites: ET A124 and ET A125 and ET A126 and ET A128.</td>
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<td>Special Fees.</td>
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<tr>
<td></td>
<td>3-hours lecture and 2-hours lab per week. Study of ideal operation amplifier circuits. Covers amplification, generation of sinusoidal and special application waveforms, active filters, power supply regulation, and circuit timers. Lab projects using appropriate equipment.</td>
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<tr>
<td>ET A233</td>
<td>Microcomputer Architecture</td>
<td>4 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 2</td>
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<td></td>
<td>Prerequisites: ET A126 with minimum grade of C and ET A150 with minimum grade of C.</td>
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<td>Special Fees.</td>
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<td></td>
<td>Teaches microcomputer architecture based on the Intel family of microprocessors, industry compatible microprocessors, system board architecture, memory types, microprocessor support chips, and PC operating systems. Includes observation of electronic computer signals, troubleshooting, and operating system changes to make efficient use of system resources.</td>
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<tr>
<td>ET A240</td>
<td>Application of Integrated Circuits</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ET A126.</td>
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<td>Offered only at Kenai Peninsula College.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>ET A241</td>
<td>Microcomputer Interfacing</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ET A175 and ET A240.</td>
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<td>Offered only at Kenai Peninsula College.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ET A242A</td>
<td>Computer Peripheral Devices: Theory and Maintenance</td>
<td>2 CR</td>
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<td></td>
<td>Contact Hours: 1 + 2</td>
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<tr>
<td></td>
<td>Prerequisites: (ET A240 or concurrent enrollment) and (ET A242B or concurrent enrollment).</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ET A242B</td>
<td>Computer Peripheral Devices: Network Technology</td>
<td>2 CR</td>
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<td>Contact Hours: 1 + 2</td>
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<td>Prerequisites: ET A126.</td>
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<td>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.</td>
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<tr>
<td>ET A243</td>
<td>Programmable Logic Controllers</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: ET A126.</td>
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<td>Offered only at Kenai Peninsula College.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>ET A245</td>
<td>Basic Electronics</td>
<td>4 CR</td>
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<td></td>
<td>Contact Hours: 3 + 3</td>
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<tr>
<td></td>
<td>Prerequisites: ET A101 or ET A151.</td>
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<td>Offered only at Kenai Peninsula College.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ET A246</td>
<td>Electronic Industrial Instrumentation</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: ET A245 and (MATH A101 or concurrent enrollment) and (MATH A105 or concurrent enrollment).</td>
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<td>Offered only at Kenai Peninsula College.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ET A250</td>
<td>Transmitters and Receivers</td>
<td>4 CR</td>
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<td>Contact Hours: 3 + 2</td>
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<td></td>
<td>Prerequisites: ET A230 and ET A231 and ET A232.</td>
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<td>Special Fees.</td>
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<tr>
<td>ET A261</td>
<td>Electronic Systems Troubleshooting</td>
<td>2 CR</td>
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<td>Contact Hours: 1.5 + 2</td>
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<td>Prerequisites: ET A180 and ET A181 and ET A182.</td>
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<td></td>
<td>Covers theory of measurement, control, and data acquisition. Includes instrumentation circuitry, mechanical control elements, computer control processes, sensors, transducers, I/P interfacing, and applications.</td>
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<tr>
<td>ET A276</td>
<td>Independent Project</td>
<td>3 CR</td>
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<td>Contact Hours: 0 + 11</td>
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<td>Registration Restrictions: Faculty Permission; and working knowledge of TES topics.</td>
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<td>Develops, implements, and completes a project based on a relevant technological issue. Student works closely with faculty to produce an end project and report.</td>
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</tbody>
</table>
### Family and Consumer Sciences - FCS

**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 A290**  
Electrical Code  
3 CR  
Contact Hours: 3 + 2  
Prerequisites: ET A151.  
Offered only at Kenai Peninsula College.  
Introduces the student to the arrangement and application of the National Electrical Code. Feeder, distillation, and branch circuit calculations are covered. Wiring methods for hazardous locations are discussed and transformer and motor circuits are considered.

**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.

### Floral Design - FD

**FD A162**  
Floral Design II  
3 CR  
Contact Hours: 2 + 2  
Prerequisites: FD A161.  
Special Fees.  
Covers basic principles, techniques, and mechanics of floral design and specialty corsages using fresh plant materials. Includes pricing and cost control.

**FD A163**  
Floral Design III  
3 CR  
Contact Hours: 2 + 2  
Prerequisites: FD A161.  
Special Fees.  
Covers basic principles, techniques, and mechanics of wedding floral designs using fresh plant materials. Includes wedding consultation, planning, and servicing the wedding.

**FD A164**  
Floral Design IV  
3 CR  
Contact Hours: 2 + 2  
Prerequisites: FD A161.  
Special Fees.  
Covers basic principles, techniques, and mechanics of sympathy (funeral) floral designs using fresh plant materials. Includes pricing and selling sympathy arrangements and servicing a funeral.

**FD A195A**  
Floral Design Practicum I  
1 CR  
Contact Hours: 0 + 3  
Prerequisites: (FD A161 or concurrent enrollment).  
Special Fees.  
Application of principles of floral art and design, and flower identification and selection. Includes planning specific arrangements as assigned by the instructor, purchasing supplies needed, and producing completed projects within a specific timeframe and budget.

**FD A195B**  
Floral Design Practicum II  
2 CR  
Contact Hours: 1 + 3  
Prerequisites: FD A162 and FD A195A or (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

**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 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 contemporary French authors. Students will attempt to interpret their content while analyzing the structures and the expression. French pronunciation will be enhanced through classroom practice in reading and discussing materials and topics of current interest. Conducted in French.

FREN A202 Intermediate French II  4 CR
Contact Hours:  3 + 2
Prerequisites: FREN A201.
Course Attributes: 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 Note: Intensive course conducted entirely in French. May be repeated once for credit.
An educational retreat providing workshops, nature walks, outdoor games, and learning activities at the intermediate level of proficiency for a total immersion in the French language, culture, and way of life. For students who want to practice French conversational skills in a most friendly and non-threatening atmosphere.

FREN A301 Advanced French I  4 CR
Contact Hours:  3 + 2
Prerequisites: FREN A202 with minimum grade of C.
Special Fees.
Further development of speaking, listening, reading and writing proficiency with marked emphasis on listening, reading, and speaking. More sophisticated grammatical structures. Wide range of discussion topics. Conducted in French.

FREN A302 Advanced French II  4 CR
Contact Hours:  3 + 2
Prerequisites: FREN A301 with minimum grade of C.
Special Fees.
Continuation of FREN 301. Further development of speaking, listening, reading and writing proficiency with marked emphasis on listening, reading, and speaking. More sophisticated grammatical structures. Wide range of discussion topics. Conducted in French.

FREN A305 French Immersion Retreat III  1 CR
Contact Hours:  0.5 + 1
Prerequisites: FREN A301.
Registration Restrictions: Advanced Verbal skills, superior knowledge of tenses and sentence structures in French, and understanding of the culture in French-speaking countries.
Grade Mode: Pass/No Pass.
Stacked with: FREN A205.
Special Note: Intensive course conducted entirely in French. May be repeated once for credit.
An educational retreat providing workshops, nature walks, outdoor games, and learning activities at the advanced level of proficiency for a total immersion in the French language, culture, and way of life. For students who want to practice French conversational skills in a most friendly and non-threatening atmosphere.

FREN A310 Selected Topics in Advanced French  3 CR
Contact Hours:  3 + 0
Prerequisites: FREN A202.
Special Fees.
Special Note: May be repeated for credit with a different subtitle.
An advanced course for students interested in conversation, writing skills, cultural information about the French-speaking world. There will be a different topic each time the course is offered. Conducted in French.

FREN A432 Studies of Literature and Culture  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Reading ability in French equivalent to three years of college study.
Special Fees.
Intensive study of authors, literary movements, periods, and/or genres. Students will also analyze cultural material other than texts. The course is conducted in French and may be repeated for credit when topics vary.

FIRE SERVICE ADMINISTRATION - FSA
Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 158, 786-6476
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
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 extraction.

FSA A121 Introduction to Fire Chemistry  3 CR
Contact Hours:  3 + 0
Special Fees.
Introduction to nomenclature, principles, and procedures of fire chemistry, supplemented by basic math and physics as related to fire problems.

FSA A123 Fire Investigation I  3 CR
Contact Hours:  3 + 0
Determining types and causes of fires. Introduction to arson and incendiarism, including recognizing and preserving evidence, interviewing witnesses and suspects, arrest and detention procedures. Court procedures, giving court testimony, and related laws.

FSA A151 Wildland Fire Control I  3 CR
Contact Hours:  3 + 0
Special Fees.
For employed firefighters and fire science majors. Covers fundamental factors affecting wildland fire prevention, fire behavior, and control techniques.

FSA A202 Fire Hydraulics  3 CR
Contact Hours:  3 + 0
Special Fees.
Review of mathematical hydraulic laws as applied to fire science. Application of formulas and calculations to hydraulics and water supply problems.
### FISH ERIES TECHNOLOGY - FT

**FSA A204** Hazardous Materials I  
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  
Contact Hours: 3 + 0  
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 considerations.

**FSA A210** Hazardous Materials II  
Contact Hours: 3 + 0  
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  
Contact Hours: 3 + 0  
Background and interpretation of national, state, and local codes, ordinances, and laws which influence fire prevention field.

**FSA A214** Fire Protection Equipment and Systems  
Contact Hours: 3 + 0  
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  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission.

**FSA A217** Advanced Rescue Practices  
Contact Hours: 3 + 0  
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.

### GEOMATICS - GEO

**GEO A137** Principles of Mapping  
Contact Hours: 2 + 2  
Registration Restrictions: Computer competency (see admission requirements). Special Fees. Offered Fall Semesters.

**GEO A155** Introduction to Geomatics  
Contact Hours: 2 + 2  
Registration Restrictions: Computer competency (see admission requirements). Special Fees. Offered Fall and Spring Semesters.

### Fishery Technology - FT

- **FPA A204** Hazardous Materials I  
  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.

- **FPA A206** Building Construction for Fire Protection  
  Contact Hours: 3 + 0  
  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 considerations.

- **FPA A210** Hazardous Materials II  
  Contact Hours: 3 + 0  
  Second semester course in hazardous materials. Covers handling, identification, and firefighting practices for explosive, toxic, and radioactive materials in transit and storage.

- **FPA A212** Related Codes and Ordinances  
  Contact Hours: 3 + 0  
  Background and interpretation of national, state, and local codes, ordinances, and laws which influence fire prevention field.

- **FPA A214** Fire Protection Equipment and Systems  
  Contact Hours: 3 + 0  
  Study of portable fire extinguishing equipment, protection devices, and systems for special hazards. Sprinkler, fire detection, and alarm systems.

- **FPA A216** Methods of Instruction for Fire Service  
  Contact Hours: 3 + 0  
  Registration Restrictions: Faculty permission.

- **FPA A217** Advanced Rescue Practices  
  Contact Hours: 3 + 0  
  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.
**GEO A250** Survey Employment Practicum 2 CR  
Contact Hours: 0 + 6  
Registration Restrictions: Completion of at least 12 GEO credits. Special Fees.  
Offered Fall Semesters.  
Offered Spring Semesters.  
Prerequisites: MATH A200 and GEO A166. Special Fees.  
Registration Restrictions: Faculty permission.  
Contact Hours: 3 + 3  
Prerequisites: MATH A200 and GEO A166. Special Fees.  
Offered Fall Semesters.  

**GEO A257** Elements of Photogrammetry 3 CR  
Contact Hours: 2 + 2  
Prerequisites: MATH A108. 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.

**GEO A267** Boundary Law I 4 CR  
Contact Hours: 4 + 0  
Prerequisites: GEO A155. Offered Spring Semesters.  
Elements of boundary control and legal principles, boundary history, ownership, rights, interests, title, transfer and description of real property, the rectangular system, retracements, restoration of corners, locating sequential conveyances and simultaneously created boundaries, combination descriptions and conveyances, easements, riparian and littoral boundaries including riparian rights, navigability, public water, erosion, accretion, avulsion, reliction, and other water boundary elements.

**GEO A290** Selected Topics in Geomatics 1-6 CR  
Contact Hours: 0 + 0  
Registration Restrictions: Faculty permission.  
Theoretical or practical concepts in geomatics. Specific course content is determined by student needs, developments in technology, or licensing requirements.

**GEO A355** Land Development and Design 3 CR  
Contact Hours: 2 + 2  
Prerequisites: GEO A157 and GEO A267. Special Fees.  
Offered Fall Semesters.  

**GEO A358** Programming for Digital Cartography 3 CR  
Contact Hours: 2 + 2  
Prerequisites: MATH A201 and CS A207. Special Fees.  
Offered Fall Semesters.  
Advanced principles of programming for computer-aided design and mapping. Organization, filing, and data-base principles. Programming routines in various automated mapping languages.

**GEO A359** Geodesy and Map Projections 3 CR  
Contact Hours: 3 + 0  
Prerequisites: MATH A200. Special Fees.  
Offered Fall Semesters.  

**GEO A365** Geomatic Adjustment and Analysis 4 CR  
Contact Hours: 4 + 0  
Prerequisites: MATH A202 and GEO A359. Offered Spring Semesters.  

**GEO A456** Geomatics and Civil Design 3 CR  
Contact Hours: 2 + 3  
Prerequisites: MATH A200 with minimum grade of C and GEO A166 with minimum grade of C. Special Fees.  
Offered Fall Semesters.  
Methods of gathering survey data for civil design. Geodesy overview. Global positioning systems (GPS) for positioning and direction. Elements of highway design and location, including horizontal, spiral, and vertical curves, super elevation, and earthwork. Geomatic design and location of utility systems. Geodetic and state plane coordinate systems. Elements of geographic information systems.

**GEO A457** Boundary Law II 4 CR  
Contact Hours: 4 + 0  
Prerequisites: GEO A267 and ENGL A212. Special Fees.  
Offered Fall Semesters.  

**GEO A459** Geodetic Geomatics 3 CR  
Contact Hours: 3 + 0  
Prerequisites: MATH A202 and GEO A359. Special Fees.  
Offered Fall Semesters.  

**GEO A460** Geomatics Design Project 3 CR  
Contact Hours: 2 + 2  
Registration Restrictions: Senior standing in geomatics program with all 300-level courses completed. Offered Fall and Spring Semesters.  
Projects in geomatics. Research, design, data compilation, analyses, and mapping. Professional standards and ethical concerns for geomaticians.

**GEO A466** Geopositioning 4 CR  
Contact Hours: 3 + 3  
Prerequisites: MATH A200 and GEO A359. Registration Restrictions: Computer competency (see admissions requirements). Offered Spring Semesters.  
Introduction to positional systems, geodesy concepts, GPS site reconnaissance, network planning, data collection using static to real-time kinematic positioning methods, data processing, network adjustment, analysis of advantages and limitations of geopositioning technologies.

**GEO A467** Analytical and Digital Photogrammetry 3 CR  
Contact Hours: 2 + 2  
Prerequisites: GEO A257. Offered Spring Semesters.  

**GEO A490** Selected Advanced Topics in Geomatics 1-6 CR  
Contact Hours: 0-6 + 0-12  
Registration Restrictions: Faculty permission. Offered Fall and Spring Semesters.  
Advanced theoretical or practical concepts in geomatics. Specific course content is determined by student needs, developments in technology, or licensing requirements.
AN INTRODUCTION TO GEOGRAPHY - GEOG

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.

GEOLA103 Landscapes and Resources 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 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.

GEOLA104 Natural History of Alaska 3 CR
Contact Hours: 0 + 3
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 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.

GEOLA111 Historical Geology 4 CR
Contact Hours: 3 + 3
Special Fees.
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 A342 Economic Geography and the Global Economy 3 CR
Contact Hours: 3 + 0
Prerequisites: GEOLA100 or GEOLA111 or (GEOLA115 or concurrent enrollment).
Course Attributes: GER Natural Sciences Requirement.
Offered Fall and Spring Semesters.
Investigation of problems in environmental geography 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 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.

AN INTRODUCTION TO GEOLOGY - GEOL

GEOL A103 Landscapes and Resources of Alaska 3 CR
Contact Hours: 3 + 0
Geologic origins of mountains and glaciers which make up Alaska’s scenery. Designed for people who would like to know more about Alaska, including where and how some of its natural resources (gold, copper, coal, oil, etc.) occur.

GEOL A104 Natural History of Alaska 3 CR
Contact Hours: 3 + 0
Crosslisted with: BIOL A104.
Special Note: Acceptable as elective credit only.
Surveys important biological, physical and geological features of Alaska, and their development over time. Includes study of major landforms, ecosystems, wildlife and people. Local area will be emphasized.

GEOL A111 Physical Geology 4 CR
Contact Hours: 3 + 3
Prerequisites: MATH A055.
Course Attributes: 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.

GEOL A112 Historical Geology 4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL 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.

GEOL 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.

GEOL A115L Laboratory in Environmental Geology 1-2 CR
Contact Hours: 0 + 3-6
Prerequisites: GEOL A100 or GEOL A111 or (GEOL A115 or concurrent enrollment).
Course Attributes: GER Natural Sciences w/ Lab.
Special Fees.
Offered Fall and Spring Semesters.
Investigation of problems in environmental geography related to hydrology, acid rain, pollution, and geologic hazards with emphasis on the Anchorage area. Independent study format includes reading, measurements, use of computer programs, and field trips.

GEOL 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.

GEOL 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.

GEOL 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.
GEOLA189 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.

GEOLA304 Geomorphology 4 CR  
Contact Hours: 3 + 3  
Prerequisites: GEOLA112.  
Special Fees.  
Study of land forms and physical processes affecting their development. Lab includes interpretation of topographic maps and aerial photos.

GEOLA306 Structural Geology 4 CR  
Contact Hours: 3 + 3  
Prerequisites: GEOLA111 and GEOLA112 and MATH A109.  
Special Fees.  
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.

GEOLA307 Sedimentation 4 CR  
Contact Hours: 3 + 3  
Prerequisites: GEOLA111 and MATH A105 and CHEM A105 and CHEM A105L.  
Special Fees.  
Survey of sediments including origins, classification, transportation, deposition, composition, structures, and diagenesis. Grain size, morphology, mineralogy, structures, and field practicum will be included in lab instruction.

GEOLA313 Mineralogy 4 CR  
Contact Hours: 3 + 3  
Prerequisites: GEOLA111.  
Special Fees.  
Crystallography including external form and internal order. Crystal chemistry, atomic structure, crystal structure, and compositional variation, nature and origin of physical properties. Mineral association, occurrence, and paragenesis. Introduction to x-ray crystallography and optical mineralogy. Laboratory includes determinative crystallography and systematic determinative mineralogy.

GEOLA314 Petrology 4 CR  
Contact Hours: 3 + 3  
Prerequisites: GEOLA313.  
Special Fees.  
Identification and classification of igneous, sedimentary, and metamorphic rocks; interpretation of textures, structures, and mineralogy of rocks; study of chemical and physical principles controlling the formation of rocks, importance of various rock types in economic and industrial arenas. Extensive study of hand specimens with emphasis on composition, texture, structure, and alteration.

GEOLA330 Field Trips in Geology 2 CR  
Contact Hours: 2 + 0  
Prerequisites: GEOLA111 or GEOLA115.  
Special Fees.  
Geologic features, processes, and geologic history that can be seen in Southcentral Alaska and understood through field experiences. Students expected to collect data and synthesize information related to geomorphology, structure, environmental geology, and paleontology.

GEOLA372 Advanced Topics in Geology 1-3 CR  
Contact Hours: 1-3 + 0  
Prerequisites: GEOLA100 or GEOLA111 or GEOLA115.  
Special Fees.  
Special Note: This course may be repeated with a change of subtitle. Special topics chosen to reflect current advances in geology or specialized fields. In-depth coverage above that given in traditional courses.

GEOLA401 Invertebrate Paleontology 4 CR  
Contact Hours: 3 + 3  
Prerequisites: GEOLA112.  
Special Fees.  
Special Note: Offered every other year. Systematics of invertebrate phyla which are important in the geologic record. Includes biostratigraphy, paleoecology, evolution and functional morphology. Emphasis in lab on taxonomy and evolution of all major fossil invertebrate groups.

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.

GER A102 Elementary German II 4 CR  
Contact Hours: 4 + 0  
Prerequisites: GER A101.  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Continuation of GER 101, designed for students able to comprehend and initiate very basic survival conversations on everyday topics, read short texts and write simple paragraphs. Students gain confidence in asking and answering questions, learn to sustain modest conversations, increase their vocabulary, reading and writing skills, and knowledge of grammatical and sentence structures, and deepen their understanding of the German-speaking cultures.

GER A105 Conversational Skills Maintenance I 1 CR  
Contact Hours: 0 + 2  
Registration Restrictions: Proficiency as after one semester of college-level or one year of high school study in German.  
Grade Mode: Pass/No Pass.  
Stacked with: GER A205 and GER A305.  
Special Fees.  
Special Note: May be repeated once for credit. A maintenance and skills enhancement course at the elementary level, designed primarily to help students of German retain what they have learned. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

GER A201 Intermediate German I 4 CR  
Contact Hours: 4 + 0  
Prerequisites: GER A102.  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Further development of students’ listening, speaking, reading, and writing proficiency, with continued emphasis on purposeful communication. Students gain greater confidence in speaking, become more adept at creating with the language, and begin to sustain connected discourse. They are introduced to more sophisticated grammatical structures and to a wider range of current topics.

GER A202 Intermediate German II 4 CR  
Contact Hours: 4 + 0  
Prerequisites: GER A201.  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
For students able to communicate with some confidence, in German, on a variety of everyday topics. They will continue to build their vocabulary by increasing the range of conversational topics using authentic and more demanding audio-visual materials, and by reading longer and more sophisticated texts, e.g., from German literature or the contemporary press. They will review and thereby increase their command of grammatical structures.

GER A205 Conversational Skills Maintenance II 1 CR  
Contact Hours: 0 + 2  
Registration Restrictions: Proficiency as after two semesters of college-level or two years of high school study in German.  
Grade Mode: Pass/No Pass.  
Stacked with: GER A105 and GER A305.  
Special Fees.  
Special Note: May be repeated once for credit. A maintenance and skills enhancement course for intermediate students of German, designed primarily to help them retain and solidify what they learned in Elementary German. With the focus on communication, the course emphasizes speaking, listening comprehension, and vocabulary building.
### 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)

**Contact Hours:** 3 + 2  
**Registration Restrictions:** Computer competency (see admission requirements). Special Fees.  
**Offered Fall and Spring Semesters.**  
**Introduction to basic concepts of GIS including common uses and technical concepts such as functionalities, data structures (raster and vector), data sources, data bases, coordinate systems, geocoding, and spatial analysis. Discussion of system implementation, management, accuracy, and legal issues. Application of GIS analysis functions and standard query languages.**

#### GIS A295 Internship in GIS

**Contact Hours:** 0 + 15  
**Prerequisites:** GIS A268.  
**Grade Mode:** Pass/No Pass.  
**Through an internship with a local employer an introduction to entry-level employment in geographic information systems will be gained. Typical entry-level tasks to be conducted for employer include: data entry, data coding and cleaning, importing and exporting data, creation of annotation, and map compilation.**

#### GIS A366 Spatial Information Analysis and Modeling

**Contact Hours:** 2 + 2  
**Prerequisites:** GIS A268.  
**Offered Spring Semesters.**  
**Analysis and modeling of spatial and nonspatial data. Discussion of spatial entities and their geometries. Modeling and spatial data retrieval and reasoning using structured query language and custom programming. Error modeling and data uncertainty. Intelligent spatial information systems.**

#### GIS A369 Land Information Systems and Legal Interpretations

**Contact Hours:** 2 + 2  
**Prerequisites:** GEO A267 and GIS A268.  
**Offered Spring Semesters.**  
**History of land information systems in North America. Land data systems. Data acquisition techniques. Methods, design, and applications for compiling data. GIS. Accuracy assessment. Overview of methods for describing land and interpreting descriptions. Issues of public information.**

#### GIS A370 Remote Sensing and GIS for Natural Resources

**Contact Hours:** 2 + 2  
**Prerequisites:** GIS A268.  
**Special Fees.**  
**Offered Fall Semesters.**  
**Remote sensing and digital image processing for natural resource interpretation and GIS integration. Sensor systems, spectral regions, data suitability and costs. Digital image corrections, enhancements, manipulation, classifications, and accuracy assessments. Multitemporal and ancillary data merging. GIS integration, modeling, management, and decision making. Natural resource applications.**
**GUIDANCE - GUID**

Offered through the Advising and Counseling Center

**GUID A101 Introduction to Peer Advising**
- 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**
- 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**
- Contact Hours: 3 + 0
- 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**
- 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**
- 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**
- 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 EDUCATION AND TRAINING - HCA**

Offered through the Community & Technical College

**HCA A055 Health Care Assistant**
- 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**
- 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 A151 Human Health and Disease I**
- Contact Hours: 3 + 0
- Special Fees.
- Introduces eleven basic systems of the human body, their anatomical cellular structures, and physiology functions. First of a two-part course presenting the core material of anatomy, physiology, and pathology.

**HCA A152 Human Health and Disease II**
- Contact Hours: 3 + 0
- Prerequisites: HCA A151 with minimum grade of C.
- Special Fees.
- Concludes the study of the eleven basic systems of the human body, their anatomical cellular structures, and physiological functions. Emphasis is placed on showing how the body’s structure and function achieve a level of homeostasis through varied regulatory systems. Describes how failures of these systems form the basic mechanisms of disease. Second of a two-part course presenting the core material of anatomy, physiology, and pathology.

**HCA A153 Fundamentals of Therapeutic Massage I**
- Contact Hours: 2 + 4
- Prerequisites: (HCA A151 with minimum grade of C or concurrent enrollment).
- Special Fees.
- Introduces academic knowledge, technical skills, attitudes and behaviors necessary to function as a professional massage therapist. Promotes a through understanding of the basic principles of massage therapy.

**HCA A154 Assessment, Documentation, and Professional Communication for Massage Therapist**
- Contact Hours: 1 + 0
- Prerequisites: (HCA A151 with minimum grade of C or concurrent enrollment) and (HCA A153 with minimum grade of C or concurrent enrollment).
- Special Fees.
- Provides the beginning student with professional management practices as required for certification as a massage therapist.

**HCA A155 Professional Practice Management**
- Contact Hours: 1 + 0
- Prerequisites: (HCA A151 with minimum grade of C or concurrent enrollment) and (HCA A153 with minimum grade of C or concurrent enrollment) and HCA A154 with minimum grade of C.
- Special Fees.
- Introduces techniques to assess a client’s health status. Examines standards for assessment, documentation, and professional communication.

**HCA A176 First Aid and CPR for Professionals**
- 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.

**HCA A253 Fundamentals of Therapeutic Massage II**
- Contact Hours: 1 + 6
- Prerequisites: (HCA A152 with minimum grade of C or concurrent enrollment) and HCA A155 with minimum grade of C.
- Corequisite: HCA A254.
- Special Fees.
- Emphasizes specific massage techniques such as hydrotherapy, range of motion, muscle energy techniques, and adaptive massage for clients with special needs.

**HCA A254 Structure, Function, and Movement**
- Contact Hours: 3 + 0
- Prerequisites: (HCA A152 with minimum grade of C or concurrent enrollment) and HCA A155 with minimum grade of C.
- Corequisite: HCA A253.
- Special Fees.
- Presents the musculoskeletal system and biomechanical relationships of muscles with their corresponding joints. Teaches anatomical and kinesiological terminology, major muscles, their actions, and location. Includes palpation, active and passive range of motion, and movement analysis.

**HCA A255 Advanced Therapeutic Massage Techniques I**
- Contact Hours: 2 + 2
- Prerequisites: HCA A253 with minimum grade of C and HCA A254 with minimum grade of C.
- Registration Restrictions: Licensed Massage Therapists may waive prerequisites.
- Grade Mode: Pass/No Pass.
- Special Fees.
- Presents advanced massage therapy modalities including sport massage, craniosacral therapy, shiatsu, reflexology, trigger point, and energy techniques.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HCA A256</td>
<td>Advanced Therapeutic Massage Techniques II</td>
<td>3 CR</td>
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<tr>
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<td>Contact Hours: 2 + 0</td>
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<td></td>
<td>Prerequisites: HCA A255 with minimum grade of C</td>
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<td>Registration Restrictions: Licensed Massage Therapist may waive prerequisites.</td>
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<td>Grade Mode: Pass/No Pass.</td>
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<td>Special Fees.</td>
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<td></td>
<td>Presents advanced massage therapy modalities including acupressure, manual lymphatic drainage, structural and postural integration, and myofascial techniques.</td>
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<tr>
<td>HCA A295</td>
<td>Massage Therapy Clinical Practicum</td>
<td>2 CR</td>
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<td>Contact Hours: 0 + 6</td>
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<td>Prerequisites: HCA A152 with minimum grade of C or concurrent enrollment) and HCA A155 with minimum grade of C and (HCA A253 with minimum grade of C or concurrent enrollment) and (HCA A254 with minimum grade of C or concurrent enrollment).</td>
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<td>Grade Mode: Pass/No Pass.</td>
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<td>Special Fees.</td>
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<td>Provides the massage therapy student the opportunity to achieve skill competency through practice on clients during one-hour therapeutic massage therapy sessions.</td>
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### HISTORY - HIST

*Offered through the College of Arts and Sciences*

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST A101</td>
<td>Western Civilization I</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td>Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>HIST A102</td>
<td>Western Civilization II</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.</td>
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<tr>
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<td>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.</td>
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<tr>
<td>HIST A121</td>
<td>East Asian Civilization I</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.</td>
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<tr>
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<td>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.</td>
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<td>HIST A122</td>
<td>East Asian Civilization II</td>
<td>3 CR</td>
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<td>Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.</td>
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<td>The Modern Transformation: East Asia from 1600 to present, with emphasis on patterns of social cohesion, transition, and revolutionary change.</td>
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<tr>
<td>HIST A131</td>
<td>History of United States I</td>
<td>3 CR</td>
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<td>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.</td>
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<tr>
<td>HIST A132</td>
<td>History of United States II</td>
<td>3 CR</td>
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<td>Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.</td>
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<tr>
<td>HIST A225</td>
<td>Ancient History</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>Registration Restrictions: HIST A101 recommended.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>HIST A226</td>
<td>Medieval History</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: HIST A101 recommended.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>HIST A230</td>
<td>Modern China</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>A survey of China from 1800 to present. Rebellion, reform, revolution, and resistance to change will be emphasized.</td>
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<tr>
<td>HIST A231</td>
<td>Modern Japan</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>A survey of Japan from 1600 to present. Changes within tradition, rise to power, and modern dilemmas will be emphasized.</td>
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<tr>
<td>HIST A235</td>
<td>History of American Indians</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>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.</td>
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<tr>
<td>HIST A237</td>
<td>American Civil War</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Study of North-South differences causing American Civil War, war itself in considerable detail, and legacy of that war for today.</td>
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<tr>
<td>HIST A238</td>
<td>Black History I</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>HIST A239</td>
<td>Black History II</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>Afro-American history from 1865 to present. Impact of technology, changing social and economic conditions, and international scene on Black Americans. Consideration of leaders, organizations, concepts and issues that affect blacks and society at large.</td>
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<tr>
<td>HIST A244</td>
<td>Studies in Film History</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Stacked with: HIST A444.</td>
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<td></td>
<td>Special Fees.</td>
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<td>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.</td>
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<tr>
<td>HIST A257A</td>
<td>A Gold Rush Era: Alaska and the Yukon</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Western United States, Canada, and Alaska will be studied in detail to determine their significance as a part of the overall evolution of the Yukon-Alaska gold rush during the period of 1846-1920. California, Oregon, Washington, and British Columbia stamped activities will be considered as an introduction leading to culminating the gold rush era of the Yukon and Alaska.</td>
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<tr>
<td>HIST A261</td>
<td>Russian History</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Origins of early (Kievan) Russia, Mongol Era, and rise of Moscow. Modern Russia to 20th century.</td>
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<tr>
<td>HIST A306</td>
<td>The Roman Empire</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: HIST A101 and HIST A225.</td>
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<td>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.</td>
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<tr>
<td>HIST A310</td>
<td>Europe: 1500-1789</td>
<td>3 CR</td>
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<tr>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: HIST A102.</td>
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<td>The Reformation and the War of Religion, the Thirty Years War, the rise of the European Nation-States, the Scientific Revolution and The Enlightenment.</td>
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<tr>
<td>HIST A312</td>
<td>Europe: 1789-1870</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: HIST A102.</td>
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<tr>
<td></td>
<td>French Revolution and Napoleonic Empire, the Concert of Europe, German and Italian Unification, Romanticism and the New Enlightenment, the Industrial Revolution.</td>
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</tbody>
</table>
**HIST A314**  Europe: 1870-1945  3 CR  Contact Hours: 3 + 0  Prerequisites: HIST A102.

The Bismarckian system and its breakdown; the First World War; the Russian Revolution; Fascism and National Socialism; the Great Depression; the Second World War.

**HIST A316**  Europe Since 1945  3 CR  Contact Hours: 3 + 0  Prerequisites: HIST A102.

- Germany and the problems of peace, the Soviet Union and Eastern Europe, the Cold War, economic problems and the recovery. European integration and the development of the Common Market, NATO and the Warsaw Pact.

**HIST A341**  History of Alaska  3 CR  Contact Hours: 3 + 0  Registration Restrictions: Junior standing.

Stacked with: HIST A641.

**Course Attributes:** GER Humanities Requirement GER Social Sciences Requirement.

Introduction to background of Alaska and its relationship to America and the world, including anthropological aspects of Native groups, land bridge theory, Russian discovery, occupation and management, orthodoxy, purchase, American organization and development, gold rushes, congressional definition and Federalism. Native claims history, statehood, oil and the disposition of Alaska lands.

**HIST A354**  *Eyes on the Prize,* America's Civil Rights Movement  3 CR  Contact Hours: 3 + 0

Telecourse based on the much acclaimed PBS/blackside history of the modern Civil Rights Movement. *Eyes I* ("America’s civil rights years") consists of six one-hour programs from the landmark school desegregation case, Brown v. Board of Education, to the student sit-ins and voter registration drives at Selma and elsewhere. *Eyes II* ("America at the racial crossroads") consists of eight one-hour programs from the coming in Watts and Detroit to the new racial politics of the 1980’s. Covers the years 1954-1985.

**HIST A360**  Modern Economic History  3 CR  Contact Hours: 3 + 0  Prerequisites: HIST A102 and ECON A201.

Crosslisted with: ECON A360.

A survey of the economic history of the modern era (1600 to present). Emphasis will be placed on Western Europe and the United States. Additional coverage will be given to Japan, the Soviet Union and one Third World Nation.

**HIST A374**  History of Canada to 1867  3 CR  Contact Hours: 3 + 0  Crosslisted with: INTL A374.

A survey of major developments in the history of Canada to 1867.

**HIST A381**  American Women’s History to 1870  3 CR  Contact Hours: 3 + 0  Prerequisites: HIST A131.

Explores the nature of American women’s history and how women’s lives in North America have changed over time. Major topics include the impact of the economy, family, sexuality, the community, and politics from the 17th century through the Civil War, and the rise of the women’s movement.

**HIST A382**  American Women’s History Since 1870  3 CR  Contact Hours: 3 + 0  Prerequisites: HIST A132.

Explores the nature of American women’s history from the Civil War to the present focusing on the political, economic, and social conditions of the past one hundred years which have shaped women’s lives in the U.S. Readings will center on autobiographical sources as well as scholarly articles and books. The class will be run as a seminar with introductory lectures or comments for each weekly topic.

**HIST A384**  Russian Women  3 CR  Contact Hours: 3 + 0  Crosslisted with: RUSS A384.

Special Note: Readings and course are conducted in English.

Examines literary images and historical contributions of Russian women through memoirs, novels, and historical and literary analysis. The central questions of the course revolve around the predominant ideals, images, and expectations of Russian women and how these values have been expressed.

**HIST A401**  The History of Warfare  3 CR  Contact Hours: 3 + 0  Prerequisites: HIST A101 and HIST A102.

A study of the history of warfare from the classical age to the present. The following topics are examined: the relationship between war and social, political and economic organization; the evolution of weapons systems; the growth of modern professional and mass armies; the “Laws” of war; the development of modern strategic and tactical thought; and the impact of the atomic age.

**HIST A402**  The Second World War  3 CR  Contact Hours: 3 + 0  Prerequisites: HIST A102.

The origins of the war in Europe and Asia. The grand strategies of the belligerents, the principal military operations, the relationship between science and war, and the mobilization of societies and economies for total war. Wartime diplomacy and the postwar settlements are also emphasized.

**HIST A410**  History of Modern Germany I  3 CR  Contact Hours: 3 + 0  Prerequisites: HIST A102.

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.

**HIST A411**  History of Modern Germany II  3 CR  Contact Hours: 3 + 0  Prerequisites: HIST A102.

The history of Germany from World War I to the present. The Weimar Republic, the Third Reich, World War II, occupation, and the origin, development, and relationship of the two existing German states will be the basic units studied.

**HIST A418**  Tudor and Stuart England  3 CR  Contact Hours: 3 + 0  Prerequisites: HIST A101.

The history of England from accession of Henry VII down to the death of Anne. Major topics are the development of modern instruments of government, the English Reformation, and the ensuing religious struggle, the Civil War and Revolution, and the establishment of parliamentary government.

**HIST A423**  Medieval Russian History  3 CR  Contact Hours: 3 + 0  Prerequisites: HIST A101.

Explores the socio-economic, political, and cultural foundations of Medieval Russia beginning with ancient Slavic settlements and foreign invasions and concluding with the creation of the Romanov dynasty in the 17th century. Major topics include the impact of foreign invasions (e.g. Mongols), the influence of the Byzantine Empire, the rise of Muscovy, and the internal dynamics of Muscovite society.

**HIST A424**  Imperial Russian History  3 CR  Contact Hours: 3 + 0  Prerequisites: HIST A101 and HIST A102.

Explores the socio-economic, political, and cultural foundations of imperial Russia from Peter the Great and concludes with the February Revolution of 1917. Major topics include the nature of autocracy, the role of serfdom, and the roots of Russia’s revolutionary tradition.

**HIST A425**  Soviet Union  3 CR  Contact Hours: 3 + 0  Russian history from the origins of the Bolshevik Revolution and concentrating on Lenin and his contribution to Marxism; the struggle between Trotsky and Stalin; Stalization (purges and collectivization of agriculture); World War II and the Cold War; detente; and the arms race.

**HIST A426**  Problems in Russian/Soviet History  3 CR  Contact Hours: 3 + 0  Prerequisites: HIST A102.

Registration Restrictions: ENGL A111 and junior standing recommended. Special Note: May be repeated once for credit with a separate topic.

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.

**HIST A431**  Colonies and Revolution  3 CR  Contact Hours: 3 + 0  Prerequisites: HIST A131 and HIST A132.

Settlement of British America, social, political, economic and ideological development of American colonies, prelude to revolution, the American revolution, drafting of the Constitution, and the Federalist Era.
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<th>Course Code</th>
<th>Course Description</th>
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<tr>
<td>HIST A434</td>
<td><strong>Early National Period, 1800-1850</strong></td>
<td>3 CR</td>
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</table>
| Contact Hours: 3 + 0 | Prerequisites: HIST A131 and HIST A132.  
Jeffersonian policies and ideology; struggle with England and the War of 1812; transcontinental treaties and the Monroe Doctrine; The Age of Jackson and Westward Expansion; the Era of Reform; and the Mexican War. |              |
| HIST A440   | **The American West Since 1850**                                                   | 3 CR         |
| Contact Hours: 3 + 0 | Prerequisites: HIST A131 and HIST A132.  
Study of major themes in Western American history, including economic, social and ideological change, and the historiography of the American West. |              |
| HIST A444   | **Advanced Studies in Film History**                                                | 3 CR         |
| Contact Hours: 3 + 0 | Registration Restrictions: Junior standing.  
Stacked with: HIST A244.  
Special Fees.  
Special Note: May be repeated once for credit with a change of subtitle. Only 3 credits of HIST A444 may be applied to either a major or minor in history.  
Advanced studies in selected topics in motion picture history. Topics range from genre studies (musicals, comedies, science fiction) to special areas of film history (animation, special effects, major stars and studios, significant directors). Subtitle varies. |              |
| HIST A451   | **Populists and Progressives: America, 1877-1917**                                | 3 CR         |
| Contact Hours: 3 + 0 | Prerequisites: HIST A132.  
The development of the reform state, from the rise of the People’s Party to the progressive era presidencies of Roosevelt, Taft, and Wilson. |              |
| HIST A452   | **America in Warand Peace, 1917-1945**                                             | 3 CR         |
| Contact Hours: 3 + 0 | Prerequisites: HIST A132.  
An examination of Americans responding to the crises of war and depression. |              |
| HIST A453   | **America Since 1945**                                                             | 3 CR         |
| Contact Hours: 3 + 0 | Stacked with: HIST A653.  
Topics will include the growth of presidential power; McCarthyism, the FBI, and civil liberties; the rise of the national security state; civil rights and antiwar movements of the 1960’s and Watergate. |              |
| HIST A455   | **America and the World in the 20th Century**                                      | 3 CR         |
| Contact Hours: 3 + 0 | Stacked with: HIST A653.  
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. |              |
| HIST A465   | **Early American Culture**                                                          | 3 CR         |
| Contact Hours: 3 + 0 | Prerequisites: HIST A131 and HIST A132.  
Primary American ideas and values in their formative period, including Puritanism, democracy, equality, right of self-governance, education, free enterprise, self-criticism, and manifest destiny. |              |
| HIST A466   | **Modern American Culture**                                                        | 3 CR         |
| Contact Hours: 3 + 0 | Prerequisites: HIST A131 and HIST A132.  
Primary American ideas and values in their maturity, including free enterprise, social gospel, evolution, individualism, success, freedom, criticism, and heroism. |              |
| HIST A477   | **SeniorSeminar**                                                                 | 3 CR         |
| Contact Hours: 3 + 0 | A course in research methodology intended for history majors and others, normally taken in the senior year of study. Students will prepare a major research paper, utilizing primary research material under the direction of department faculty. |              |
| HIST A478   | **Studies in Early American History**                                              | 3 CR         |
| Contact Hours: 3 + 0 | Prerequisites: HIST A131.  
Special Note: May be repeated for credit with a different subtitle.  
An examination of selected fundamental topics in early American history. Areas will be studied as student need and faculty expertise indicate. Subtitle varies. |              |
| HIST A479   | **Studies in Modern American History**                                             | 3 CR         |
| Contact Hours: 3 + 0 | Prerequisites: HIST A131 and HIST A132.  
Special Note: May be repeated for credit with a different subtitle.  
This course is intended to provide an intensive examination of selected fundamental topics in American history. Specific areas will be treated as student need and faculty expertise indicate. Subtitle varies. |              |

**HEALTH - HLTH**

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<th>Course Code</th>
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<tbody>
<tr>
<td>HIST A486</td>
<td><strong>Studies in Modern Europe</strong></td>
<td>3 CR</td>
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| Contact Hours: 3 + 0 | Prerequisites: HIST A102.  
Special Note: May be repeated for credit with a change of subtitle.  
This course is a study of selected important topics in modern European history. These include World War I, European Fascism and National Socialism, European Marxism, and World War II. The course will be offered as student need and faculty expertise indicate. Subtitle varies. |              |
| HIST A641   | **Studies in Alaska History**                                                     | 3 CR         |
| Contact Hours: 3 + 0 | Stacked with: HIST A341.  
Special Note: Not available for credit to students who have taken HIST A341.  
Advanced study of various topics in Alaska history, including Russian exploration, occupation and development, social conditions in the Russian period, the U.S. Purchase, American development and economic relationships, political development, Native issues, environmental history, and changing perceptions. |              |
| HIST A653   | **The United States, 1945 to the Present**                                       | 3 CR         |
| Contact Hours: 3 + 0 | Stacked with: HIST A453.  
Special Note: Not available for credit to students who have taken HIST A453.  
Advanced study of selected topics in the political and cultural history of America since the Second World War. |              |

**HONORS - HNRS**

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<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credit Hours</th>
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<tr>
<td>HNRS A110</td>
<td><strong>Community and Cultural Awareness</strong></td>
<td>1 CR</td>
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</table>
| Contact Hours: 1 + 0 | Registration Restrictions: Enrollment limited to students admitted to UAHonors Program, and also open to students in a UAAdpartmental honors program who have permission to enroll from the UAHonors Program Director.  
Corequisite: HNRS A192.  
Grade Mode: Pass/No Pass.  
Evaluates the role of self-responsibility in shaping the process of wellness and the components of nutritional awareness, physical fitness, stress awareness, management, and environmental sensitivity. |              |
| HNRS A192   | **Honors Seminar: Enduring Books**                                                | 3 CR         |
| Contact Hours: 3 + 0 | Registration Restrictions: Enrollment limited to students admitted to UAHonors Program, and also open to students in a UAAdpartmental honors program who have permission to enroll from the UAHonors Program Director.  
Corequisite: HNRS A292.  
Grade Mode: Pass/No Pass.  
A course extends over both fall and spring semesters. A passing grade is independent on successful completion of the year-long course.  
Guided exploration of community and cultural resources through attendance of community activities, meetings, lectures, and cultural events. |              |
| HNRS A210   | **Community Service**                                                             | 1 CR         |
| Contact Hours: 1 + 0 | Prerequisites: HNRS A110 and HNRS A192.  
Registration Restrictions: Enrollment limited to students admitted to UAHonors Program, and also open to students in a UAAdpartmental honors program who have permission to enroll from the UAHonors Program Director.  
Corequisite: HNRS A292.  
Grade Mode: Pass/No Pass.  
An honors seminar focusing on the directed reading of a single book of enduring significance.  
Guided volunteer service with a cultural organization, social service organization, or government agency. |              |
COURSE DESCRIPTIONS

HNRS A292 Honors Seminar: Modern American Culture 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Enrollment limited to students admitted to UAAHonors Program, and also open to students in a UAAdepartmental honors program who have permission to enroll from the UAAHonors 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 A392 Honors Thesis Seminar 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Enrollment limited to students admitted to UAAHonors Program, and also open to students in a UAAdepartmental honors program who have permission to enroll from the UAAHonors Program Director. Completion of all lower-division honors requirements.
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 SeniorHonors Seminar 6 CR
Contact Hours: 6 + 0
Registration Restrictions: Enrollment limited to students admitted to UAAHonors Program, and also open to students in a UAAdepartmental honors program who have permission to enroll from the UAAHonors 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 UAAHonors Program Director and approval by a faculty member acting as thesis advisor.
Special Note: Enrollment limited to students admitted to UAAHonors 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, 786-6582.

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. Crosslisted with: PSY A350.

Comprehensive overview of substance abuse-related disorders. Special emphasis is given to understanding the nature of alcohol and drugs, and their action and effects on the body. Theories of addictive disorders, treatment, and prevention are also addressed.

HS A370 Medical Sociology 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101. Crosslisted with: SOC A370.

A historical and contemporary overview of selected social, political, and economic factors that influence the provision of health care in America. Focuses on the relationship between health care and race, sex, social stratification, and geographical location. Brief international comparisons with alternative for-profit and not-for-profit national health care systems.

HS A379 Health Data Analysis 4 CR
Contact Hours: 3 + 3
Prerequisites: MATH A105.

A first course on analysis of data commonly obtained in health research. Common practices and conventions of the presentation of health research results are presented. Current issues such as relative risk and life tables are also discussed.

HS A381 Substance Abuse Treatment 3 CR
Contact Hours: 3 + 0
Prerequisites: HS A350 or PSY A350. Crosslisted with: PSY A381.

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 + 40
Registration Restrictions: MEDEX 469. Acceptance into the University of Washington MEDEX Northwest Physician Assistant Program or by instructor permission. Grade Mode: Pass/No Pass.

The first of a two-part course that provides clinical practice in selected institution-based or specialty practice settings, such as psychiatry, dermatology, emergency medicine, orthopedics, surgery, or gynecology and obstetrics.

HS A464 Physician Assistant Clinical Clerkship II 12 CR
Contact Hours: 0 + 40
Prerequisites: HS A463. Registration Restrictions: Acceptance into the University of Washington MEDEX Northwestern Physician Assistant Program. Grade Mode: Pass/No Pass.

The second of a two-part course that provides clinical practice in selected institution-based or specialty practice settings, such as psychiatry, dermatology, emergency medicine, orthopedics, surgery, or gynecology and obstetrics.

HS A465 Physician Assistant Family Practice Clerkship I 12 CR
Contact Hours: 0 + 40

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 + 40

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. Crosslisted with: PSY A480. Stacked with: PSY A680. Special Fees. Special Note: Check schedules for specific titles being offered. HS/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.

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 A460 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 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.

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.

HUMS A101 Introduction to Human Services 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Humanities Requirement.
Offered as Demand Warrants.
Integrated exploration of fundamental principles of literature, music, philosophy, and visual arts.

HUMS A121 Introduction to Humanities I 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.

HUMS A220 Film as and Literature 3 CR
Contact Hours: 3 + 0
Introduces the works of a variety of contemporary filmmakers. Students will study the relationship between the two genres. 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.

HUMS A260 Introduction to Social Welfare 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Crosslisted with: SWK A106.
Course Attributes: GER Social Sciences Requirement.
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 A262 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.

HUMANITIES - HUM
Offered through the College of Arts and Sciences
College of Arts and Sciences Building (CAS), Room 335, (907) 786-1761
HUM A205 Fridays Ten 'Til Two 1 CR
Contact Hours: 1 + 0
Stacked with: EAH A049.
Special Fees.
Special Note: See schedule for current title offering.
Interdisciplinary program of lectures and discussions led by faculty and community leaders.

HUM A211 Introduction to Humanities II 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Humanities Requirement.
Offered as Demand Warrants.
An exploration of what makes good literature and good film, and the relationship between the two genres. Focuses on how literary and cinematic expression differs, and how—or if—the former translates into the latter. Students learn to read novels, plays, and short stories critically and to watch films critically. Two critical essays required; readings are numerous.

HUM A230 Introduction to Folklore 3 CR
Contact Hours: 3 + 0
Introduces history, central themes, genres and methodology of contemporary folklore. Develops knowledge, understanding, and curiosity about the folktale as a genre with emphasis on specific genres such as fairy tales, tall tales, legends, and myths. Compares and contrasts these genres with dramatic and documentary narrative forms. Students are introduced to research methods and research in folklore studies.

HUM 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.
Offered Fall and Spring Semesters.
Analyzes social inequality and the American social welfare system. Traces historical development of government response to social inequality. Explores historical and persistent dilemmas—ethical, political, social and economic—explicit and implicit in social welfare provisioning. Assists in understanding of social welfare problems and their solutions.

HUMS A121 Advocating for Victims of Domestic Violence and Sexual Assault 3 CR
Contact Hours: 3 + 0
Crosslisted with: SWK A121.
Offered only at Matanuska-Susitna College.
Focuses on developing the skills and knowledge needed to be an effective advocate for victims of domestic violence and sexual assault. Provides historical perspective, identifies physical, sexual and emotional abuse that defines battering. Explains cycle of violence, power and control issues and why women stay in abusive relationships. Identifies five stages of living without violence (denial, self-blame, help seeking, ambivalence and living violence free lives). Discusses ways of helping victims become survivors.
HUMS A122 Substance Abuse as a Contemporary Problem 3 CR  
Contact Hours: 3 + 0  
Offered Fall Semesters.  
Examines cultural values and norms, and social attitudes toward alcohol and drug abuse. Impact of abuse on personal functioning and interpersonal relationships.

HUMS A123 Public Education and Prevention in Substance Abuse 3 CR  
Contact Hours: 3 + 0  
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  
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  
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  
Overview of behavioral analysis and its implementation by direct care providers who work with populations requiring specialized interventions. Includes social learning theory, specific behavior management procedures and techniques, teaching new behaviors, reducing undesirable behaviors, task analysis and data collection and interpretation. Emphasis on student skill development in working with emotionally disturbed and developmentally disabled youth and adults and socially maladapted youth.

HUMS A232 Applied Behavioral Analysis II 2 CR  
Contact Hours: 2 + 0  
Prerequisites: HUMS A231.  
Offers in-depth understanding and proficiency in applied behavioral analysis. Application of skills in teaching new behaviors, reducing undesirable behaviors, and managing behaviors among varied populations requiring specialized interventions. Also examines integration of counseling and behavioral programming.

HUMS A256 Groups and Organizations 3 CR  
Contact Hours: 3 + 0  
Introduces basic theories, practices and issues of relevance to working in human service agencies and develops skills to work effectively in an organizational setting. As a result of this course, the student should be more effective in observing, and political dynamics of service delivery groups and organizations.

HUMS 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 A412 Ethical Issues in Human Services Practice 3 CR  
Contact Hours: 3 + 0  
Prerequisites: HUMS A101 and HUMS A223. Special Fees.  
Offered Fall Semesters.  
Overview of ethics in human service practice. Clients' rights and confidentiality, worker responsibility for ethical behavior in the areas of confidentiality, multicultural counseling, professional responsibility, and practitioner competency.
HUMS A444 Rural Treatment Strategies for Human Service Professionals 3 CR
Contact Hours: 3 + 0
Prerequisites: HUMS A101.
Special Fees.
Offered Spring Semesters.
Focuses upon human service work in rural settings. Development of relevant knowledge and skills in the following areas: cultural issues, the addiction process and their impact on the individual, the family, and the community. Prevention and treatment of substance abuse strategies are presented focusing upon the human service worker as a change agent.

HUMS 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, recipiency, 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 InteriorDesign 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, 786-4856
INTLA301 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.

INTLA302 Canada: Contemporary Issues 3 CR
Contact Hours: 3 + 0
Prerequisites: INTLA301.
Special Note: May be repeated for credit with a change of subtitle.
Contemporary Canadian issues and topics including health and environment, northern development, U.S.-Canada relations, Canadian international relations, the multilingual society, education, arts and humanities, and northern engineering.

INTLA303 Canada: Selected Topics 3 CR
Contact Hours: 3 + 0
Stacked with: INTLA603.
Special Fees.
Special Note: May be repeated for credit with a change of subtitle.
Each offering focuses on a different aspect of Canadian life. Topics include anthropology and Native peoples of Canada, history, sociology, politics, economics and resources, film, theatre, literature, education, and the health system.

INTLA304 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.

INTLA374 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.

INTLA375 History of Canada Since 1867 3 CR
Contact Hours: 3 + 0
A survey of major developments in the history of Canada since 1867.

INTLA603 History of Canada to 1867 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Stacked with: INTLA303.
Special Fees.
Special Note: May be repeated for credit a maximum of four times with a change of subtitle.
Advanced study of different aspects of Canadian life. Topics include Canadian anthropology and Native peoples, art, economics and resources, history, literature, politics, Quebec and the French fact in Canada, sociology and theatre.
ITALIAN - ITAL

http://cwolf.uaa.alaska.edu/~aylang/

Offered through the College of Arts and Sciences
Classroom Building K, Room 205, 786-4030

ITALA101  Elementary Italian I  4 CR
Contact Hours:  4 + 0
Course Attributes: GER Humanities Requirement.
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.

ITALA102  Elementary Italian II  4 CR
Contact Hours:  4 + 0
Prerequisites: ITALA101.
Course Attributes: GER Humanities Requirement.
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.

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
Prerequisites: JPC A101.

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 A205  Feature Writing  3 CR
Contact Hours:  3 + 0
Prerequisites: JPC A201.

Nonfiction writing for magazines and newspapers. Writing, rewriting, editing and submitting articles for publication. Introduction to style, interviewing techniques, and issues of libel and ethics. For non JPC majors and minors.

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 newsgroup.

JPC A305  Journalistic Interviewing  3 CR
Contact Hours:  3 + 0
Prerequisites: JPC A101.

The art and craft of interviewing, with emphasis on journalistic interview. Students study and practice various styles of interviews with individuals and groups and learn specific human-interaction techniques necessary for conducting quality interviews that elicit useful information for journalistic purposes.

JPC A309  Radio News  3 CR
Contact Hours:  3 + 0
Prerequisites: JPC A101 and JPC A111 and JPC A201.

Developing news and public affairs programming for commercial and public radio formats. Emphasis will be on journalistic reporting and understanding the special qualities and requirements of the medium. Produce professional-quality stories for an aural audience.

JPC A310  Audio Production  3 CR
Contact Hours:  2 + 3
Prerequisites: JPC A111.

Techniques of sound production. Survey of the history and formats of radio. Audio production techniques are introduced for radio, television, film, and sound/slide presentations. Students produce documentary, dramatic or commercial studio projects.

JPC A311  Magazine Writing  3 CR
Contact Hours:  3 + 0
Prerequisites: JPC A301.

Article writing for publication in magazines, preparation of query letters, market analysis, and manuscript writing. Includes discussion of ethical and legal issues of special concern in magazine writing.

JPC A316  Producing for Film and Television  3 CR
Contact Hours:  2 + 3
Prerequisites: JPC A111.

Principles and techniques of video and film production; concepts, script, production planning, camera, audio, lighting, and editing. Teaches basic principles common to film and television production through the use of portable color video camera and video tape editing systems.

JPC A320  Principles of Public Relations  3 CR
Contact Hours:  3 + 0
Prerequisites: JPC A101.

Function of public relations and its role in society. Principles, history, and practice of public relations in business and industry, public or governmental institutions, social welfare organizations. Process of influencing and public opinion. Responsibilities of the public relations practitioner to their principles, media, and public.
JPC A323  Color Photography  3 CR
Contact Hours: 0 + 6
Prerequisites: JPC A224 or ART A224.
Crosslisted with: ART A323.
Special Fees.
Special Note: May be repeated for credit.
Advanced techniques in color transparencies, color negatives, and color printing.

JPC A324  Intermediate Photography  3 CR
Contact Hours: 0 + 6
Prerequisites: JPC A224 or ART A224.
Crosslisted with: ART A324.
Special Fees.
Further development of photographic skills. Includes photographic perception of awareness, ideas and concepts, and the “Fine print.”

JPC A325  Writing for Film and Television  3 CR
Contact Hours: 3 + 0
Study and practice in writing for film and television, including dramatic, docudramatic, educational and documentary forms. Concentration on the development of basic visualization skills for writers and techniques in proposal, concept, treatment and scripting.

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 A330  Advanced Public Relations  3 CR
Contact Hours: 3 + 0
Prerequisites: JPC A212 and JPC A320 and JPC A329.
Use of controlled and uncontrolled (public) media to achieve motivation of target audiences; case studies and typical problems, planning and preparation of communication materials; and application of public relations concepts and techniques.

JPC A331  Experimental Photography  3 CR
Contact Hours: 0 + 6
Prerequisites: JPC A324 or ART A324.
Crosslisted with: ART A331.
Special Fees.
Special Note: May be repeated for credit.
Exploration of various special effects and techniques. Emphasizes creativity using various photographic processes.

JPC A340  Web Design  3 CR
Contact Hours: 2 + 2
Prerequisites: JPC A329.
Registration Restrictions: Basic familiarity with Word Processing on PC.
Creating graphics, formatting text and organizing files for World Wide Web sites. Students are introduced to the issues and techniques involved in creating Web sites for media organizations and businesses. Students create complex Web sites. Internet marketing and issues such as privacy and copyright also are addressed.

JPC A341  Broadcast Journalism Production  3 CR
Contact Hours: 2 + 3
Prerequisites: JPC A201 and JPC A310 and JPC A316.
Focus on all phases of broadcast news from laboratory practice in gathering and editing to contemporary trends and issues in broadcast journalism. Laboratory experience involves tapes and films; all work done against absolute deadlines.

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 purposeful 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.

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.

JAPANESE - JPN

http://cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030

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.  Registration Restrictions: JPC majors with junior or senior standing, and faculty permission.  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.  Special Fees:  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.  Offered only at extended colleges.  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.  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 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:  Continued drill in speaking, listening, reading and writing in different situations. Emphasis on developing practical skills in oral and written “Hiragana” communication.

JPN A201  Intermediate Japanese I  4 CR  Contact Hours: 4 + 0  Prerequisites: JPN A102.  Course Attributes: GER Humanities Requirement.  Special Fees:  Completion of basic grammar and continued practice in speaking, listening, reading, and writing. More Kanji, vocabulary, and expressions are to be studied. Students will move toward a higher level of all skills of language comprehension, production, and cultural understanding. Continued efforts to develop oral and written fluency in formal and informal situations.

JPN A201E  Intermediate Japanese I  3 CR  Contact Hours: 3 + 0  Prerequisites: JPN A102E.  Course Attributes: GER Humanities Requirement.  Offered only at extended colleges.  Special Fees:  Completion of basic grammar and continued practice in speaking, listening, reading, and writing. More Kanji, vocabulary, and expressions are to be studied. Students will move toward a higher level of all skills of language comprehension, production, and cultural understanding. Continued efforts to develop oral and written fluency in formal and informal situations.

JPN A202  Intermediate Japanese II  4 CR  Contact Hours: 4 + 0  Prerequisites: JPN A201.  Course Attributes: GER Humanities Requirement.  Special Fees:  Completion and reinforcement of the fundamentals of the Japanese language introduced in the introductory level. Develops the functional ability to communicate in Japanese are introduced. Continued efforts to develop oral and written proficiency in informal and formal situations.
JPN A205 Conversational Skills II 1 CR
Contact Hours: 0 + 2
Registration Restrictions: Proficiency as after two semesters of college level or two years of high school level Japanese.
Grade Mode: Pass/No Pass.
Stacked with: JPN A105.
Special Fees.
Special Note: May be repeated once for credit.
- Focuses on oral communication, emphasizing speaking, listening, comprehension, and vocabulary building. Skills enhancement course at the intermediate level.

JPN A210 Japanese Ideography and Calligraphy 1 CR
Contact Hours: 0 + 2
Prerequisites: JPN A102.
Special Note: Students may enter a calligraphy contest that is sponsored by the Japan Society of Anchorage. May be repeated twice for credit. Required for Major in Japanese.
- Provides Japanese calligraphy training. Gives students opportunities to learn Japanese culture first hand. Students also build up stronger writing skills of Kanji and Hiragana by reinforcing and practicing learned words through calligraphy.

JPN A301 Advanced Japanese I 4 CR
Contact Hours: 4 + 0
Prerequisites: JPN A202.
Special Fees.
- Reinforcement of the fundamentals of the Japanese language introduced in the introductory and intermediate level. Develops the functional ability to communicate in Japanese beyond the survival level. More Kanji, vocabulary, and expressions are introduced. Continued efforts to develop oral and written fluency in Japanese culture.

JPN A302 Advanced Japanese II 4 CR
Contact Hours: 4 + 0
Prerequisites: JPN A301.
Special Fees.
- Further reinforcement of the fundamentals of the Japanese language introduced in the introductory and intermediate level. Develops the functional ability to communicate in Japanese beyond the survival level. More Kanji, vocabulary, and expressions are introduced. Continued efforts to develop oral and written fluency in informal formal situations. Reading of contemporary texts.

JPN A310 Selected Topics in Advanced Japanese 3 CR
Contact Hours: 3 + 0
Prerequisites: JPN A202.
Special Fees.
Special Note: May be repeated for credit.
- An advanced course for students interested in improving their communicative skills in spoken and written Japanese and in deepening their understanding of the Japanese people and culture. Each time the course is offered, different but closely related topics such as history and geography, politics and economy, education and technology, performing arts and films, traditions and modern trends, will be selected and emphasized.

JUSTA210 Principles of Corrections 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 or JUSTA251.
- 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.

JUSTA221 Justice Organization and Management 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
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.

JUSTA225 Labor Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JPN A102.
Offered Fall and Spring Semesters.
- Study of legislative acts and court decisions in labor law. Examines laws governing labor-management relations, organization and representation of employees, and regulation of economic weapons. Also covers enforcement of collective bargaining agreements, their content, negotiation, and administration through grievance procedures and arbitration, and inter-union and intra-union relations.

JUSTA230 Domestic Relations 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 or PARL A101.
- Laws relating to marriage and divorce, support and property rights. Adoptions, guardianship, abortion, and juvenile rights in family settings.

JUSTA241 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.

JUSTA242 Business Law II 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA241 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.

JUSTA250 Development of Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
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; criticism of law; review of Native law ways; and procedures for changing law.

JUSTA251 Criminology 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
Offered Fall and Spring Semesters.
- The study of deviant behavior and theories of crime causation and their relationship to society, law and law enforcement.

JUSTA255 Criminal Investigation 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
- 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.

JUSTA320 Crime Prevention 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Crosslisted with: SOC A203.
- 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.
JUSTA330 Justice and Society 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
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.

JUSTA343 Constitutional Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 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.

JUSTA344 Courts and Civil Liberties 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA343 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.

JUSTA350 Contemporary Correctional Issues 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.

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.

JUSTA352 Substantive Criminal Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 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.

JUSTA354 Criminal Procedure 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 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 double jeopardy. Study of cases decided by U.S. and Alaska Supreme Courts, Alaska Court of Appeals, and Alaska Criminal Court. Emphasis on the period since 1937. Focuses on cases and literature of the Supreme Court and considers various influences on judicial decision making.

JUSTA360 Justice Processes 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
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.

JUSTA365 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.

JUSTA370 Judicial Policy and Court Administration 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 and JUSTA221.

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.

JUSTA380 Social Service Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 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.

JUSTA385 Urban Police Problems 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.

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.

JUSTA398 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.

JUSTA410 Cinematic Images of Justice 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.

JUSTA413 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.

JUSTA440 Police Administration 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 and JUSTA221.

Focuses on critical issues and situations faced by police executives. Among the areas studied are decision making, organizational strategies and services mix, citizen complaint systems, change strategies and models, information systems, personnel management, financial administration and productivity measurement.

JUSTA445 Probation, Parole and Community Corrections 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA210.

Study of community-based alternatives to incarceration for adult and juvenile offenders. The purposes, operations and organization of probation and parole agencies and the decision making responsibilities of probation and parole officers will be examined. Private and public community residential programs will be analyzed.

JUSTA451 Research and Policymaking 4 CR
Contact Hours: 3 + 3
Prerequisites: JUSTA110 and AS A252.
Registration Restrictions: Upper-class standing.
Special Note: Laboratory is required.

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.
JUSTA454 Evaluation Research and Change 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Social science methods course. Crosslisted with: SOC A454.
Application of evaluation research to policy-making process. Presents evaluative research strategies including monitoring, process evaluation, cost-benefit analysis and impact evaluation. Special attention given to designing evaluation projects, analyzing and interpreting results, preparing and presenting evaluation research reports in justice, human and community service fields.

JUSTA455 Rural Justice 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
Multidisciplinary study of ‘bush justice’in rural Alaska and in other Arctic settings including Greenland and Canada. A study of the interplay of law ways of Alaska Natives and early white populations with the developing military, territorial and state systems. Special focus on small village justice systems, traditional and modern; roles of police, councils, judges and others in the system, criminal and civil law; and alternatives to urban models proposed or tested in rural settings.

JUSTA456 Anthropology and the Law 3 CR
Contact Hours: 3 + 0
Crosslisted with: ANTH A456.
Offered as Demand Warrants.
This course will study variations cross-culturally in forms of social control of law, including traditional Alaska Native forms. Moving beyond the purely theoretical concerns of law cross-culturally, this course will investigate legal service delivery problems in cross-cultural settings, drawing upon both anthropological knowledge and jurisprudence in cross-cultural settings. Ways for improving legal service delivery systems will be examined.

JUSTA462 Indian Law and the Settlement Act 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 and JUSTA250.
A study of the legal history and current legal status of Alaska Native people. Attention will be given to the social, cultural and legal history of American Natives in general and Alaska Natives in particular; the U.S. Policies concerning Natives and their rights, law of corporations and the corporate structure of the Settlement Act, and legal rights, money control, and land management under Alaska Native Claims Settlement Act.

JUSTA465 Legislation 3 CR
Contact Hours: 3 + 0
Relationship of ordering words and procedural language to policy objectives. Drafting and interpretation of rules, regulations, and ordinances. Legal system design.

JUSTA475 Juvenile Procedure 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA203 or SOC A203.
A practical clinical course providing comprehensive coverage of the Alaska children’s code and juvenile law procedures.

JUSTA480 Correctional Systems Management 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 and JUSTA251.
Focuses on the management of correctional rehabilitation. Probation, imprisonment, parole and community-based corrections concepts are explored in-depth. Legal aspects of correctional administration, prisoner rights, and judicial involvement in penal systems. Correctional decision making processes, participatory management and citizen involvement are assessed. International comparisons of correctional systems are utilized to explore organizational and management options.

JUSTA489 Research Practicum 1-6 CR
Contact Hours: 0 + 3-18
Prerequisites: JUSTA451.
Registration Restrictions: Faculty permission required.
The application of research skills to the study of a problem in the justice field. Involves field research and related independent study.

JUSTA490 Contemporary Justice Issues 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: JUSTA110.
Registration Restrictions: Junior standing. Special Note: May be repeated once for credit with a change in subtitle.
A variable topics course which addresses current issues. Topics of national interest as well as those peculiar to Alaska will be included.

JUSTA491 Natural Resources Law 3 CR
Contact Hours: 3 + 0
An introduction to the law of land and resource development, with special emphasis on land and water use regulation and public land issues.

JUSTA495 Internship 1-6 CR
Contact Hours: 0 + 5-3
Registration Restrictions: Approval by internship coordinator. Grade Mode: Pass/No Pass. Offered Fall and Spring Semesters. Specially arranged field experiences for advanced Justice majors and Paralegal Certificate students. Designed to expand knowledge and skills through supervised placements in justice, law, and governmental settings.

JUSTA625 Seminar in Criminal Violation 3 CR
Contact Hours: 3 + 0
Offered Alternate Fall Semesters.
An advanced criminology seminar which will explore the application of various theories of crime causation to specific kinds of criminal violation. Students will use criminological theory in an effort to explain different types of criminal behavior and to assess both methods of prevention and potential treatment of the violent. Topics will include: crimes of violence, crimes against the public order, organized crime, white collar crime, etc.

JUSTA630 Justice Administrative Theory and Practice 3 CR
Contact Hours: 3 + 0
Offered Alternate Spring Semesters.
An advanced seminar 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.

JUSTA640 Corrections Theory and Research 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing. Offered as Demand Warrants.
Theoretical foundation of correctional practice explored through reading of classic texts. Development and testing of hypotheses on rehabilitation, retribution, and incapacitation.

JUSTA650 Policing Theory and Research 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing. Offered Alternate Spring Semesters.
Social science research on policing explored through readings on police use of force, domestic violence, and community policing. Development of proposals for empirical tests of hypotheses derived from the literature.

JUSTA670 Administrative Law 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing. Offered Spring Semesters.
Legal guidelines for adoption, enforcement, and adjudication of violations of agency regulations at federal, state, and local levels as exercised by public sector management. Legislative, executive, and judicial controls on agency action. Research project required.

JUSTA690 Selected Topics in Criminal Justice 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing. Selected issues in criminal justice.

JUSTA699 Thesis 1 CR
Contact Hours: 0 + 0
The application of research skills to the study of a problem in the justice field. Involves field research and related independent study.

KOREAN - KOR

http://cewolf.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 granual-bulical structure, reading, writing and some culture.

https://www.uaa.alaska.edu
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.

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.

Library Science - LS

http://www.uaa.alaska.edu/lib/
Offered through the College of Arts and Sciences
Consortium Library Reference Desk, 786-1848

LS A101 Library Resources and Information Retrieval 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass
An introduction to information retrieval with particular emphasis on the print and electronic resources available at the campus library.

LS A111 Methods and Materials for Library Research 2 CR
Contact Hours: 2 + 0
Comprehensive course in college library research. Familiarizes the student with reference materials found in most academic library collections. Covers use of the catalog, indexes and basic reference materials, and provides guidance in selecting and researching a topic.

Liberal Studies Integrated 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 Sciences 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-SolarSystem-Life 5 CR
Contact Hours: 3 + 6
Prerequisites: MATH A105 and (LSIS A101 or concurrent enrollment).
Course Attributes: GER Natural Sciences w/Lab.
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.
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.
Fundamental concepts in physics and chemistry. Emphasizes logical connections between quantum mechanical view of matter and major themes of modern chemistry and biochemistry. A writing and speaking intensive course.

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
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.
### Course Descriptions

**Mathematics - MATH**

http://www.math.uaa.alaska.edu

Offered through the College of Arts and Sciences

College of Arts & Sciences Building (CAS), Room 154, 786-1742/4824

Each student enrolled in MATH A050 through MATH A205, MATH A250, MATH 270, or MATH 272 on campus will be charged a Math Lab Fee.

#### MATH A050A  Basic Mathematics  1 CR

- **Contact Hours:** 1 + 0
- **Special Fees.**
- **Special Note:** MATH A050A, A050B, A050C combined are equivalent to MATH A054.
- Includes addition, subtraction, multiplication, and division (the four basic operations) on whole numbers, fractions and decimals, and a discussion of order of operations. Computation involving ratios, proportion, and percent is also included. The topic of math anxiety is dealt with throughout the course.

#### MATH A050B  Review of Mathematical Concepts  1 CR

- **Contact Hours:** 1 + 0
- **Registration Restrictions:** MATH A050A or Placement Test.
- **Special Fees.**
- **Special Note:** MATH A050A, A050B, A050C combined are equivalent to MATH A054.
- Includes a review of elementary geometry (area, perimeter, and volume calculations), the Pythagorean Theorem, similar and congruent triangles, order of operations, and an introduction to mathematical expressions using variables.

#### MATH A050C  Introduction to Equations  1 CR

- **Contact Hours:** 1 + 0
- **Registration Restrictions:** MATH A050A or Placement Test.
- **Special Fees.**
- **Special Note:** MATH A050A, A050B, A050C combined are equivalent to MATH A054.
- Explores mathematical expressions using real numbers, exponents, and radicals. Also included is an overview of properties of equalities, solving equations, inequalities, elementary word problems, and the four operations on polynomials.

#### MATH A054  Pre-Algebra  3 CR

- **Contact Hours:** 3 + 0
- **Special Fees.**
- **Special Note:** MATH A050A, A050B, A050C combined are equivalent to MATH A054.
- Basic concepts of pre-algebra mathematics. Includes arithmetic operations and applications, whole numbers, fractions, decimals, ratio and proportion, percent, area and volume, exponents, radicals, signed numbers, and solution of simple equations.

#### MATH A055  Elementary Algebra  3 CR

- **Contact Hours:** 3 + 0
- **Prerequisites:** MATH A054 with minimum grade of C.
- **Registration Restrictions:** If prerequisite is not satisfied, Math Placement Test is required.
- **Special Fees.**
- Beginning algebra course. Includes operations with signed numbers and polynomials, factoring, exponents, radicals, algebraic fractions, solution of linear equations, systems of equations, linear inequalities, and quadratic equations. Basic graphing.

#### MATH A060  Essential Mathematics  4 CR

- **Contact Hours:** 4 + 0
- **Special Fees.**
- **Special Note:** Equivalent to MATH A054 and MATH A055. Credit will not be given for both MATH A055 and MATH A060. Placement test not required.
- 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.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
<th>CREDIT HOURS</th>
<th>PREREQUISITES</th>
<th>CONTACT HOURS</th>
<th>REGISTRATION RESTRICTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH A101 Technical Mathematics</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td>Special Note: This course will not satisfy the mathematics requirement for an Associate of Arts Degree</td>
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<tr>
<td>Provides mathematical training for students enrolled in technical programs.</td>
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<tr>
<td>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.</td>
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<tr>
<td>MATH A102 Business Math</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>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.</td>
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<tr>
<td>MATH A103 Concepts of Mathematics</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>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.</td>
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<tr>
<td>MATH A105 Intermediate Algebra</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: MATH A055 with minimum grade of C or MATH A060 with minimum grade of C.</td>
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<tr>
<td>Registration Restrictions: If prerequisite is not satisfied, Math Placement Test is required.</td>
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<tr>
<td>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.</td>
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<tr>
<td>MATH A107 College Algebra</td>
<td>4 CR</td>
<td>Contact Hours: 4 + 0</td>
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<tr>
<td>Prerequisites: MATH A105 with minimum grade of C.</td>
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<tr>
<td>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.</td>
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<tr>
<td>Course Attributes: GER Quantitative Skills Requirement.</td>
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<tr>
<td>Special Note: A student may apply no more than 7 credits from any combination of MATH A107, A108, and A109 towards the graduation requirements for any baccalaureate degree.</td>
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<tr>
<td>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 graphs of conic sections, including applications; binomial theorem; sequences and series; mathematical induction and combinatoric notation.</td>
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<tr>
<td>MATH A108 Trigonometry</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: MATH A107 with minimum grade of C.</td>
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<tr>
<td>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.</td>
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<tr>
<td>Course Attributes: GER Quantitative Skills Requirement.</td>
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<tr>
<td>Special Fees. Special Note: A student may apply no more than 7 credits from any combination of MATH A107, A108 and A109 toward the graduation requirements for any baccalaureate degree.</td>
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<tr>
<td>Covers trigonometric functions, fundamental trigonometric identities, composite angle identities, and graphs of trigonometric functions. Also includes complex numbers, DeMoivre’s theorem, solution of right and oblique triangles, solution of trigonometric equations, inverse trigonometric functions and vectors. Provides calculation practice helpful for physics, engineering and survey technology courses.</td>
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<tr>
<td>MATH A109 Precalculus</td>
<td>6 CR</td>
<td>Contact Hours: 6 + 0</td>
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<tr>
<td>Prerequisites: MATH A105 with minimum grade of B.</td>
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<tr>
<td>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.</td>
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<tr>
<td>Course Attributes: GER Quantitative Skills Requirement.</td>
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<tr>
<td>Special Fees. Special Note: Intensive course designed for students who intend to take the calculus sequence (MATH A200, A201, A202). A student may apply no more than seven credits from any combination of MATH A107, A108 and A109 towards the graduation requirements for any baccalaureate degree.</td>
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<tr>
<td>Intensive course covering polynomial, rational, exponential, logarithmic and trigonometric functions, composite and inverse functions, conic sections, matrices and determinants, solutions of equations and inequalities, vectors, complex numbers, DeMoivre’s theorem, polar coordinates, parametric and polar graphs, sequences and series, binomial theorem, and mathematical induction.</td>
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<tr>
<td>MATH A200 Calculus I</td>
<td>4 CR</td>
<td>Contact Hours: 4 + 0</td>
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<tr>
<td>Prerequisites: MATH A107 with minimum grade of C and MATH A108 with minimum grade of C.</td>
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<tr>
<td>Registration Restrictions: If prerequisite is not satisfied, Math Placement Test is required.</td>
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<tr>
<td>Course Attributes: GER Quantitative Skills Requirement.</td>
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<tr>
<td>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.</td>
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<tr>
<td>MATH A201 Calculus II</td>
<td>4 CR</td>
<td>Contact Hours: 4 + 0</td>
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<tr>
<td>Prerequisites: MATH A200 with minimum grade of C.</td>
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<tr>
<td>Course Attributes: GER Quantitative Skills Requirement.</td>
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<tr>
<td>Special Fees. Differentiation and integration of exponential, logarithmic and trigonometric functions. Parametric equations, arc length, polar co-ordinates, techniques of integration, and infinite series.</td>
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<tr>
<td>MATH A202 Calculus III</td>
<td>4 CR</td>
<td>Contact Hours: 4 + 0</td>
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<tr>
<td>Prerequisites: MATH A201 with minimum grade of C.</td>
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<tr>
<td>Special Fees. Vectors, partial differentiation and multiple integration.</td>
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<tr>
<td>MATH A205 Communicating Mathematical Ideas</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: PSY A245 and MATH A107 and AS A252.</td>
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<td>Registration Restrictions: Department Approval.</td>
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<tr>
<td>Special Fees. Special Note: A grade of C or above in MATH A205 is required to meet State of Alaska Teacher Certification standards. MATH A205 does not satisfy the General Education Quantitative Skills requirement.</td>
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<tr>
<td>Elementary set theory, numeral systems, basic number theory and divisibility, problem-solving strategies, topics from geometry, including the properties of two- and three-dimensional geometric objects. Field experience in the classroom may be required.</td>
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<tr>
<td>MATH A206 Mathematics for Elementary School Teachers II</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: MATH A205. Continuation of MATH A205. Topics include real number systems and subsystems, algebra, graphing, logic, geometry, topology, measurement, metric system, probability and statistics, and calculators. Includes use of appropriate materials for teaching these topics.</td>
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<tr>
<td>MATH A215 Introduction to Mathematical Proofs</td>
<td>2 CR</td>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td>Prerequisites: MATH A201. Study of logic, sets, relations, functions, cardinality, and mathematical proof techniques.</td>
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<tr>
<td>MATH A231 Introduction to Discrete Mathematics</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: MATH A107. Registration Restrictions: If prerequisite is not satisfied, two years of high school algebra or Math Placement Test is required. Logical in its connections with mathematical proof, set theory, Boolean algebra, and combinatorial circuits; techniques of counting; elements of graph theory. Additional topics related to the mathematics of computing, may include graph and tree traversal, finite automata, and the basics of complexity and formal languages.</td>
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</tbody>
</table>
MATH A250 Introduction to Computer Algebra Systems 1 CR
Contact Hours: 1 + 0
Prerequisites: MATH A200 or MATH A272.
Grade Mode: Pass/No Pass.
Special Fees.
Introduction to the use of a computer algebra system as a tool to solve mathematical problems. Topics will cover syntax, symbolic calculations, plots, control structures, lists, and matrices. Writing of programs by students is required.

MATH A270 Applied Finite Mathematics 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A105.
Registration Restrictions: If prerequisite is not satisfied, two years of high school algebra or Math Placement Test is required.
Course Attributes: GER Quantitative Skills Requirement.
Special Fees.
Linear equations and inequalities, algebra of matrices, introductory linear programming, logarithms and exponential functions. Applications emphasizing the relationships of these mathematical concepts to quantitative decision making in managerial sciences.

MATH A272 Calculus for Managerial Sciences 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A270 or MATH A107.
Course Attributes: GER Quantitative Skills Requirement.
Special Fees.
Functions and graphs, differentiation, exponential and logarithmic functions, antiderivation and integration, functions of several variables. Applications of these mathematical concepts.

MATH A302 Ordinary Differential Equations 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202.
Special Fees.
Nature and origin of differential equations, first order equations and solutions; linear differential equations with constant coefficients, systems of equations, power series solutions, operational methods, Laplace Transform methods and applications.

MATH A303 Introduction to Modern Algebra 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202 and MATH A215.
Introduction to sets, groups, rings and fields.

MATH A305 Geometry 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202 and MATH A215.
Topics selected from such fields as Euclidean and non-Euclidean plane geometry, affine geometry, projective geometry, and topology.

MATH A306 Discrete Methods 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202 and [MATH A215 or MATH A231].
Graph theoretical and combinatorial problem solving. Discrete models for applied problems are introduced and algorithmic as well as closed form solution techniques are applied.

MATH A314 Linear Algebra 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202.
Special Fees.
Linear equations, finite dimensional vector spaces, matrices, determinants, linear transformations, and characteristic values. Inner product spaces.

MATH A321 Analysis of Several Variables 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202 and MATH A314.
Vector calculus, exterior calculus, optimization techniques, and integration with applications. Emphasizes the use of linear and multilinear algebra techniques to generalize the basic methods of calculus to several independent and dependent variables.

MATH A324 Advanced Calculus 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202 and MATH A215.
Investigations of the limit concept with special reference to functions on the real line. Topics include continuous functions and their properties, sequences and series, differentiation and integration of functions.

MATH A371 Probability Models 3 CR
Contact Hours: 3 + 0
Prerequisites: AS A307 and MATH A201.
Theory and applications, including moment generating functions, conditional expectation, Poisson processes, Markov chains, and topics selected from: branching processes, queueing theory, random walks, and reliability theory.

MATH A406 Topics in Applied Mathematics 1-4 CR
Contact Hours: 1-4 + 0
Registration Restrictions: Faculty permission.
Special Note: Primarily for senior-level math, computer science, science and engineering students; may be repeated more than once for credit.
The mathematical methods underlying treatment of specific real-world problem areas. The applications will vary and course credit level will be determined at time of offering. Methods will be analytical, statistical, discrete and algebraic in combination.

MATH A407 Mathematical Statistics I 3 CR
Contact Hours: 3 + 0
Prerequisites: AS A307 and MATH A202.
Topics include probability spaces, mathematical expectation, moments, moment generating functions, probability mass functions, probability density functions, functions of random variables, and modes of convergence.

MATH A408 Mathematical Statistics II 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A407.
Continuation of MATH A407. Includes sampling distributions, limit theorems, order statistics, point estimation, sufficient statistics, interval estimation, hypothesis testing, and decision theory.

MATH A410 Introduction to Complex Analysis 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202.
Analytic functions, Cauchy’s Theorem, sequences and series, integration and residues.

MATH A420 History of Mathematics 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202 and MATH A215.
Historical development of mathematical concepts in algebra, geometry, number theory, analytical geometry, and calculus.

MATH A422 Partial Differential Equations 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A302.
Analysis and solution of partial differential equations. Initial and boundary value problems for elliptic, hyperbolic and parabolic types will be classified and solved. Additional topics will be chosen by faculty member teaching the course.

MATH A495 Mathematics Practicum 1-3 CR
Contact Hours: 0 + 3-9
Prerequisites: MATH A202.
Registration Restrictions: Faculty permission required.
Grade Mode: Pass/No Pass.
Special Note: May be repeated up to a maximum of 3 credits. No more than 3 credits may be applied towards a degree. May not be applied to upper division requirements in Mathematics.
Provides upper-division mathematics majors the experience of teaching mathematics. The student is responsible for 3 hours per week per credit in the mathematics laboratory.

MECHANICAL ENGINEERING - ME
http://www.engr.uaa.alaska.edu
Offered through the School of Engineering
Engineering Building (ENGR), 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.
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ME A687</td>
<td>Arctic Materials Engineering</td>
<td>3 CR</td>
</tr>
<tr>
<td>MECH A101</td>
<td>Introduction to Machine Shop</td>
<td>4 CR</td>
</tr>
<tr>
<td>MECH A102</td>
<td>Intermediate Machine Shop</td>
<td>4 CR</td>
</tr>
<tr>
<td>MECH A115</td>
<td>Gasoline Engine Rebuilding</td>
<td>3 CR</td>
</tr>
<tr>
<td>MECH A201</td>
<td>Advanced Machine Shop II</td>
<td>4 CR</td>
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<tr>
<td>MECH A202</td>
<td>Advanced Machine Shop</td>
<td>4 CR</td>
</tr>
<tr>
<td>MECH A220</td>
<td>Computer Numerical Control Mill</td>
<td>4 CR</td>
</tr>
<tr>
<td>MECH A273</td>
<td>Machine Shop Lab</td>
<td>1 CR</td>
</tr>
<tr>
<td>MEDT A101</td>
<td>Phlebotomy Procedures</td>
<td>3 CR</td>
</tr>
<tr>
<td>MEDT A132</td>
<td>Introduction to Laboratory Medicine</td>
<td>3 CR</td>
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<tr>
<td>MEDT A195</td>
<td>Phlebotomy Practicum</td>
<td>3 CR</td>
</tr>
<tr>
<td>MEDT A202</td>
<td>Clinical Chemistry</td>
<td>6 CR</td>
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<tr>
<td>MEDT A203</td>
<td>Clinical Microbiology</td>
<td>6 CR</td>
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<tr>
<td>MEDT A204</td>
<td>Hematology and Coagulation</td>
<td>6 CR</td>
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<tr>
<td>MEDT A206</td>
<td>Immunology and Blood Banking</td>
<td>6 CR</td>
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**MECHANICAL TECHNOLOGY - MECH**

**Offered through Kenai Peninsula College**

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>MECH A101</td>
<td>Introduction to Machine Shop</td>
<td>2 + 4</td>
<td>MECH A101</td>
</tr>
<tr>
<td>MECH A102</td>
<td>Intermediate Machine Shop</td>
<td>2 + 4</td>
<td>MECH A101</td>
</tr>
<tr>
<td>MECH A115</td>
<td>Gasoline Engine Rebuilding</td>
<td>2 + 2</td>
<td>MECH A101</td>
</tr>
<tr>
<td>MECH A201</td>
<td>Advanced Machine Shop II</td>
<td>2 + 4</td>
<td>MECH A101</td>
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<tr>
<td>MECH A202</td>
<td>Advanced Machine Shop II</td>
<td>2 + 4</td>
<td>MECH A101</td>
</tr>
<tr>
<td>MECH A220</td>
<td>Computer Numerical Control Mill</td>
<td>2 + 4</td>
<td>MECH A201/MECH A202</td>
</tr>
<tr>
<td>MECH A273</td>
<td>Machine Shop Lab</td>
<td>0 + 1</td>
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</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>MEDT A101</td>
<td>Phlebotomy Procedures</td>
<td>2 + 3</td>
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</tr>
<tr>
<td>MEDT A132</td>
<td>Introduction to Laboratory Medicine</td>
<td>2 + 2</td>
<td></td>
</tr>
<tr>
<td>MEDT A195</td>
<td>Phlebotomy Practicum</td>
<td>0 + 9</td>
<td></td>
</tr>
<tr>
<td>MEDT A202</td>
<td>Clinical Chemistry</td>
<td>3 + 6</td>
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<tr>
<td>MEDT A203</td>
<td>Clinical Microbiology</td>
<td>3 + 6</td>
<td></td>
</tr>
<tr>
<td>MEDT A204</td>
<td>Hematology and Coagulation</td>
<td>3 + 6</td>
<td></td>
</tr>
<tr>
<td>MEDT A206</td>
<td>Immunology and Blood Banking</td>
<td>3 + 6</td>
<td></td>
</tr>
</tbody>
</table>

**MECH A101 Prerequisites:** CE A603.

The performance of materials subjected to temperature extremes typical of the Arctic are examined. Specific topics covered include metallic and nonmetallic solids, fuels and lubricants, batteries, electrical considerations, corrosion and human performance.

**MECH A115 Prerequisites:** MECH A201 or MECH A202.

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 Prerequisites:** MECH A201.

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 A101 Contact Hours:** 2 + 4

**MECH A102 Contact Hours:** 2 + 4

**MEDT A132 Prerequisites:** MEDT A101 with minimum grade of C.

Grade Mode: Pass/No Pass.

**MEDT A195 Special Fees.**


**MEDT A202 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.

**MEDT A203 Prerequisites:** CHEM A103 with minimum grade of C and CHEM A103L 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.

**MEDT A204 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.

**MEDT A206 Special Fees.**

Studies microorganisms of medical importance to humans. Includes bacteriology, mycology, and parasitology with emphasis on media, isolation and culture techniques, biochemical tests and staining techniques used in identification, and sensitivity testing.

**MEDT A203 Special Fees.**

Provides hands-on practice in rebuilding procedures including valve grinding, bearing fitting, and cylinder boring.

**MEDT A202 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 A206 Special Fees.**

Programmed, operating, and producing machine 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.

**MEDT A203 Special Fees.**

Offers 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.
**MARINE TECHNOLOGY - MT**

Offered through Kenai Peninsula College
34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT A208</td>
<td>Urine and Body Fluid Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Contact Hours: 2 + 2</td>
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<td></td>
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</tbody>
</table>

**MUS - MUSIC**

http://www.uaa.alaska.edu/music/

Offered through the College of Arts and Sciences
Arts Building (ARTS), Room 356, 786-1595

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS A105</td>
<td>Jazz Techniques Lab</td>
<td>2</td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
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</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>CR</th>
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</thead>
<tbody>
<tr>
<td>MUS A111</td>
<td>Fundamentals of Music</td>
<td>3</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>CR</th>
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</thead>
<tbody>
<tr>
<td>MUS A121</td>
<td>Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>CR</th>
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</thead>
<tbody>
<tr>
<td>MUS A131</td>
<td>Music Theory I</td>
<td>3</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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</tbody>
</table>

Corequisite: MUS A133.

Organization of musical materials with emphasis on diatonic functional harmony. Introduction to part writing and keyboard skills.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>CR</th>
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</thead>
<tbody>
<tr>
<td>MUS A134</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Corequisite: MUS A133.

Continuation of MUS A131, emphasizing part writing and melody harmonization. Introduction of non-harmonic tones and modulation and development of practical keyboard skills.
MUS A140  Fingerstyle Guitar I  2 CR
Contact Hours:  2 + 0
Special Fees.
Special Note: Student must furnish own 6-string acoustic guitar.
Beginning course for those who do not read music or have limited experience with the guitar. Students develop repertoire of traditional, folk, and contemporary music using 13 basic chord shapes, alternating bass technique, simple notereading skills, and six basic fingerstyle guitar patterns.

MUS A141  Fingerstyle Guitar II  2 CR
Contact Hours:  2 + 0
Registration Restrictions: MUS A140 or the ability to noteread melodies on the guitar in the key of C; acquaintance with fingerstyle technique and the concept of alternating bass. Audition required for students who have not completed MUS A140.
Special Fees.
Continuation of MUS A140. Introduces barre chords, bass runs, ornamentation, and major and minor scale studies. Beginning solo skills using examples from contemporary and classical literature and fingerstyle accompaniment patterns in simple and compound time.

MUS A142  Guitar Chord Theory  2 CR
Contact Hours:  2 + 0
Registration Restrictions: Ability to read music on the treble staff. May be taken concurrently with MUS A141.
Special Fees.
Prerequisites: MUS A121 or MUS A131.
Study and practice of basic fundamentals of singing and song interpretation, stressing attitude and correct practice habits. Introduces and expands general knowledge of singing: mechanism, technique, repertoire, and performance practices.

MUS A149  Voice Lessons I  1-2 CR
Contact Hours:  1-2 + 3-6
Offered only at Kenai Peninsula College.
Vocal techniques using theatre songs and folk music, designed to improve performing and musical skills.

MUS A150  Piano Class I  1 CR
Contact Hours:  1 + 0
Special Fees.

MUS A152  Voice Class I  1 CR
Contact Hours:  1 + 0
Registration Restrictions: Ability to match pitches.
Special Fees.
Prerequisites: MUS A121 or MUS A131.
Study and practice of basic fundamentals of singing and song interpretation, stressing attitude and correct practice habits. Introduces and expands general knowledge of singing: mechanism, technique, repertoire, and performance practices.

MUS A154  Functional Piano I  1 CR
Contact Hours:  1 + 0
Prerequisites: MUS A131 or concurrent enrollment).
Helps music majors obtain performance, sight-reading, and harmonization/ transposition skills needed to pass Piano Proficiency Examination. Emphasizes basic reading skills and keyboard coordination.

MUS A155  Functional Piano II  1 CR
Contact Hours:  1 + 0
Prerequisites: MUS A154.
Continuation of MUS A154, using simple literature, sight-reading exercises, major scales and cadences, and simple tunes with primary triads.

MUS A161  Private Lessons  1-2 CR
Contact Hours:  1-2 + 3-6
Special Fees.
Special Note: Performance majors enroll for 2 credits.
Private music instruction in brass, guitar, harpsichord, organ, percussion, piano, strings, voice, and woodwinds.

MUS A162  Private Lessons  1-2 CR
Contact Hours:  1-2 + 3-6
Special Fees.
Special Note: Performance majors enroll for 2 credits.
Continuation of MUS A161.

MUS A163  Private Lessons (Non-Major)  1-2 CR
Contact Hours:  1-2 + 3-6
Special Fees.
Private lessons in brass, guitar, harpsichord, organ, percussion, piano, strings, voice and woodwinds for non-majors.

MUS A164  Private Lessons (Non-Major)  1-2 CR
Contact Hours:  1-2 + 3-6
Special Fees.
Continuation of MUS A163.

MUS A202  Concert Chorus II  2 CR
Contact Hours:  2 + 0
Registration Restrictions: Admission by audition only.
Special Fees.
Special Note: May be repeated once for credit.
Performance-oriented large chorus. Established community organization for singers who read music, demonstrate secure rhythm and pitch, and produce acceptable vocal sound.

MUS A221  History of Music I  3 CR
Contact Hours:  3 + 0
Prerequisites: MUS A121 or MUS A131.
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.
Special Note: B music majors may not use this course towards their GER-Fine Arts or CAS Humanities sequence requirements.
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.
Special Note: B music majors may not use this course towards their GER-Fine Arts or CAS Humanities sequence requirements.

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: B 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 Medieval, Renaissance, and Baroque eras within their historical context.

MUS A231  Music Theory III  3 CR
Contact Hours:  3 + 0
Prerequisites: MUS A132.
Corequisite: MUS A233.
Functional harmony featuring part writing and melody harmonization and introducing chromatic harmony. Covers modulation, secondary dominant functions, and other altered chords along with analysis of binary and ternary forms.

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  Sight Singing and Ear Training III  2 CR
Contact Hours:  2 + 0
Prerequisites: MUS A134.
Corequisite: MUS A234.
Develops advanced skills in hearing and reading music. Features modulation, chromaticism and complex rhythmic patterns.

MUS A234  Sight Singing and Ear Training IV  2 CR
Contact Hours:  2 + 0
Prerequisites: MUS A233.
Corequisite: MUS A234.
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.
Special Fees.
Continuation of MUS A141. Intermediate skills including ornamentation, notereading in the second position, and moving bass lines. Development of solo technique with repertoire selected from classical and contemporary composers. Fingerstyle syncopated rhythms and blues and flamenco studies.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUS A241</td>
<td>Fingerstyle Guitar IV</td>
<td>2 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: MUS A142 and MUS A240</td>
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<td>Registration Restrictions: Faculty permission required.</td>
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<tr>
<td></td>
<td>Continuation of MUS A240. Review of second position and introduction of note-reading in the 4th and 5th positions. Intermediate solo repertoire including examples from the Latin American composers. Fingerstyle technique using extended chords in barre positions and pattern modulation.</td>
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</tr>
<tr>
<td>MUS A242</td>
<td>Solo Fingerstyle Guitar</td>
<td>2 CR</td>
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<td></td>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: MUS A142 and MUS A240</td>
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<td>Registration Restrictions: Faculty permission required.</td>
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<td></td>
<td>Special Fees.</td>
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<td>Special Note: May be repeated twice for credit.</td>
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<tr>
<td></td>
<td>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 note-reading studies in all positions and exercises in small ensemble performance.</td>
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<tr>
<td>MUS A249</td>
<td>Voice Lessons II</td>
<td>1-2 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 1-2 + 0</td>
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<tr>
<td></td>
<td>Offered only at Kenai Peninsula College.</td>
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<tr>
<td></td>
<td>Continuation of MUS A149.</td>
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<tr>
<td>MUS A261</td>
<td>Private Lessons</td>
<td>1-2 CR</td>
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<td></td>
<td>Contact Hours: 1-2 + 3-6</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Continuation of MUS A162.</td>
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<tr>
<td>MUS A262</td>
<td>Private Lessons</td>
<td>1-2 CR</td>
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<td>Contact Hours: 1-2 + 3-6</td>
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<td>Special Fees.</td>
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<tr>
<td></td>
<td>Continuation of MUS A261.</td>
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<tr>
<td>MUS A263</td>
<td>Private Lessons (Non-Major)</td>
<td>1-2 CR</td>
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<td>Contact Hours: 1-2 + 3-6</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Continuation of MUS A164.</td>
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<tr>
<td>MUS A264</td>
<td>Private Lessons (Non-Major)</td>
<td>1-2 CR</td>
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<td>Contact Hours: 1-2 + 3-6</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Continuation of MUS A263.</td>
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<tr>
<td>MUS A280</td>
<td>Basic Conducting</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: MUS A131.</td>
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<tr>
<td></td>
<td>Introduces principles of conducting. Explores time-beating, use of left hand, score reading, and transposition as it relates to conducting.</td>
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<tr>
<td>MUS A301A</td>
<td>University Singers</td>
<td>1 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: By audition.</td>
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<tr>
<td></td>
<td>Grade Mode: Pass/No Pass.</td>
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<td></td>
<td>Stacked with: MUS A301B.</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Special Note: May be repeated for credit.</td>
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<tr>
<td></td>
<td>Rehearsal and performance of chamber vocal literature from Renaissance up to and including 20th century contemporary literature. Ensemble for the non music major.</td>
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</tr>
<tr>
<td>MUS A301B</td>
<td>University Singers</td>
<td>2 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
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<td>Registration Restrictions: By audition.</td>
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<tr>
<td></td>
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<td></td>
<td>Special Fees.</td>
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<td></td>
<td>Special Note: May be repeated for credit.</td>
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</tr>
<tr>
<td></td>
<td>Rehearsal and performance of chamber vocal literature from Renaissance up to and including 20th century contemporary literature. Ensemble for vocal majors.</td>
<td></td>
</tr>
<tr>
<td>MUS A302A</td>
<td>ChamberMusic and Accompanying</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1 + 3</td>
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<td></td>
<td>Registration Restrictions: By audition.</td>
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<tr>
<td></td>
<td>Grade Mode: Pass/No Pass.</td>
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<tr>
<td></td>
<td>Stacked with: MUS A302B.</td>
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<td></td>
<td>Special Note: May be repeated for credit.</td>
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<tr>
<td></td>
<td>Ensemble course for the non music major pianist. Covers the art of accompanying singers and instrumentalists and relevant skills such as sight-reading and score-reading.</td>
<td></td>
</tr>
<tr>
<td>MUS A302B</td>
<td>ChamberMusic and Accompanying</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1 + 3</td>
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<td></td>
<td>Registration Restrictions: By audition.</td>
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<td></td>
<td>Stacked with: MUS A302A.</td>
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<td>Special Note: May be repeated for credit.</td>
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<tr>
<td></td>
<td>Advanced vocalists and instrumentalists are also encouraged to enroll.</td>
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<tr>
<td></td>
<td>Ensemble course for pianists. Covers the art of accompanying singers and instrumentalists and relevant skills such as sight-reading and score-reading.</td>
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<tr>
<td>MUS A303A</td>
<td>University Wind Ensemble</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: By audition.</td>
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<tr>
<td></td>
<td>Grade Mode: Pass/No Pass.</td>
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<tr>
<td></td>
<td>Stacked with: MUS A303A.</td>
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<td></td>
<td>Special Note: May be repeated for credit.</td>
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<tr>
<td></td>
<td>In-depth rehearsal and performance of original band music and transcriptions from Renaissance up to and including 20th century literature. Ensemble for non music major.</td>
<td></td>
</tr>
<tr>
<td>MUS A303B</td>
<td>University Wind Ensemble</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
<td></td>
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<tr>
<td></td>
<td>Registration Restrictions: By audition.</td>
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<tr>
<td></td>
<td>Stacked with: MUS A303A.</td>
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<tr>
<td></td>
<td>Special Note: May be repeated for credit.</td>
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<tr>
<td></td>
<td>In-depth rehearsal and performance of original band music and transcriptions from Renaissance up to and including 20th century literature. Ensemble course for wind and percussion majors.</td>
<td></td>
</tr>
<tr>
<td>MUS A307A</td>
<td>University Sinfonia</td>
<td>1 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: By audition.</td>
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</tr>
<tr>
<td></td>
<td>Grade Mode: Pass/No Pass.</td>
<td></td>
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<tr>
<td></td>
<td>Stacked with: MUS A307B.</td>
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<tr>
<td></td>
<td>Special Note: May be repeated for credit.</td>
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<tr>
<td></td>
<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>
<td></td>
</tr>
<tr>
<td>MUS A307B</td>
<td>University Sinfonia</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: By audition.</td>
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</tr>
<tr>
<td></td>
<td>Stacked with: MUS A307A.</td>
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<tr>
<td></td>
<td>Special Note: May be repeated for credit.</td>
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<tr>
<td></td>
<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>
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<tr>
<td>MUS A313</td>
<td>Opera Workshop</td>
<td>1-3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 0 + 3-9</td>
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<tr>
<td></td>
<td>Registration Restrictions: Faculty permission required.</td>
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<tr>
<td></td>
<td>Grade Mode: Pass/No Pass.</td>
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<td></td>
<td>Special Note: May be repeated for credit.</td>
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<tr>
<td></td>
<td>The study, rehearsal, production, and performance of selected works from the standard operatic repertoire.</td>
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<tr>
<td>MUS A331</td>
<td>Form and Analysis</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: MUS A232.</td>
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</tr>
<tr>
<td></td>
<td>Structural principles and stylistic analysis of music of the 18th and 19th centuries.</td>
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<tr>
<td>MUS A361</td>
<td>Private Lessons</td>
<td>1-2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1-2 + 3-6</td>
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<td>Special Fees.</td>
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<tr>
<td>MUS A363</td>
<td>Private Lessons (Non-Major)</td>
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<tr>
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<td>Contact Hours: 1-2 + 3-6</td>
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<td>MUS A364</td>
<td>Private Lessons (Non-Major)</td>
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<td>Contact Hours: 1-2 + 3-6</td>
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<tr>
<td>MUS A371</td>
<td>Brass Methods and Techniques</td>
<td>2 CR</td>
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<tr>
<td>MUS A372</td>
<td>Woodwind Methods and Techniques</td>
<td>2 CR</td>
</tr>
<tr>
<td>MUS A373</td>
<td>String Methods and Techniques</td>
<td>2 CR</td>
</tr>
<tr>
<td>MUS A374</td>
<td>Voice Methods and Techniques</td>
<td>2 CR</td>
</tr>
<tr>
<td>MUS A375</td>
<td>Percussion Methods and Techniques</td>
<td>2 CR</td>
</tr>
<tr>
<td>MUS A381</td>
<td>Choral Conducting</td>
<td>2 CR</td>
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<td>MUS A382</td>
<td>Instrumental Conducting</td>
<td>2 CR</td>
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<td>MUS A405A</td>
<td>University Jazz Ensemble</td>
<td>1 CR</td>
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<td>MUS A405B</td>
<td>University Jazz Ensemble</td>
<td>2 CR</td>
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<td>MUS A408A</td>
<td>University Percussion Ensemble</td>
<td>1 CR</td>
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<tr>
<td>MUS A408B</td>
<td>University Percussion Ensemble</td>
<td>2 CR</td>
</tr>
<tr>
<td>MUS A409A</td>
<td>University Guitar Ensemble</td>
<td>1 CR</td>
</tr>
<tr>
<td>MUS A409B</td>
<td>University Guitar Ensemble</td>
<td>2 CR</td>
</tr>
<tr>
<td>MUS A420</td>
<td>Medieval and Renaissance Music</td>
<td>3 CR</td>
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<tr>
<td>MUS A421</td>
<td>Music in the Baroque Period</td>
<td>3 CR</td>
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<tr>
<td>MUS A422</td>
<td>Music in the Classical Period</td>
<td>3 CR</td>
</tr>
<tr>
<td>MUS A423</td>
<td>Music in the Romantic Period</td>
<td>3 CR</td>
</tr>
<tr>
<td>MUS A424</td>
<td>Music in the 20th Century</td>
<td>3 CR</td>
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</table>

**Prerequisites:**

- MUS A132
- MUS A232
- MUS A280
- MUS A405B
- MUS A408A
- MUS A408B
- MUS A409A
- MUS A409B
- MUS A422
- MUS A423
- MUS A424

**Contact Hours:**

- 2 + 0
- 2 + 0
- 2 + 0
- 2 + 0
- 2 + 0
- 2 + 0
- 2 + 0
- 2 + 0
- 2 + 0
- 2 + 0
- 2 + 0
- 2 + 0

**Special Note:**

- May be repeated for credit.
- May be repeated for credit.
- May be repeated for credit.
- May be repeated seven times for credit.
- May be repeated for credit.
- May be repeated for credit.
- May be repeated for credit.
- May be repeated for credit.
- May be repeated for credit.
- May be repeated for credit.

**Registration Restrictions:**

- By audition.
- By audition.
- By audition.
- By audition.
- By audition.
- By audition.
- By audition.
- By audition.
- By audition.
- By audition.

**Instruction:**

- Instruction in the string instruments. The course is part of the teacher training program.
- Instruction in the woodwind instruments. The course is part of the teacher training program.
- Instruction in the percussion instruments. The course is part of the teacher training program.
- BAnote: Student must be able to read music fluently while holding/performing on the brass instruments.
- BAnote: Student must be able to read music fluently while holding/performing on the string instruments.
- BAnote: Student must be able to read music fluently while holding/performing on the percussion instruments.
- Principles of conducting and interpreting choral music.
- Principles of conducting and interpreting instrumental music.
- Principles of conducting and interpreting instrumental music. Required intensive listening and reading of music.
- Elective for music majors.
- Elective for music majors.
- Elective for music majors.
- Elective for music majors.
- Elective for music majors.
- Elective for music majors.
- Elective for music majors.

**Special Fees:**

- BAnote: May be repeated for credit.
- BAnote: May be repeated for credit.
- BAnote: May be repeated for credit.
- BAnote: May be repeated for credit.
- BAnote: May be repeated for credit.
- BAnote: May be repeated for credit.
- BAnote: May be repeated for credit.
- BAnote: May be repeated for credit.
- BAnote: May be repeated for credit.
- BAnote: May be repeated for credit.

**Study and Performance:**

- 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.
- Study and performance of traditional repertoire, Latin and European folk music, opera, lieder, and music for piano. Requires intensive listening and reading of music.
MUS A431 Counterpoint 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A232.
Study of the contrapuntal techniques of the 16th and 18th centuries. Features writing in appropriate vocal and instrumental forms.

MUS A432 Orchestration 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A232.
Principles and practices of composing and transcribing music for various instrumental ensembles, including band and orchestra.

MUS A461 Private Lessons 1-2 CR
Contact Hours: 1-2 + 3-6
Continuation of MUS A362.

MUS A462 Private Lessons 1-2 CR
Contact Hours: 1-2 + 3-6
Continuation of MUS 461.

MUS A466 String and Wind MasterClass 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 MasterClass 2 CR
Contact Hours: 2 + 0
Special Note: Mandatory each semester for piano performance majors; 8 credits minimum required for piano majors in music education; may be repeated for credit.
Seminar in performance practice for pianists. Comparative analysis and discussion of piano literature and close examination of its styles and periods (early Baroque through 20th century). At least one performance or research project required each semester.

MUS A468 Voice MasterClass 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Faculty permission required.
Special Fees.
Special Note: Mandatory each semester for vocal performance majors; 8 credits minimum required for vocal majors in music education; may be repeated for credit.
Performance and discussion of the styles and periods of vocal literature ranging from the Renaissance to contemporary repertoire. Weekly in class performance trains the student to be more at ease and effective in singing.

MUS A469 GuitarMasterClass 2 CR
Contact Hours: 2 + 0
Registration Restrictions: One of MUS A147, MUS A240, or private lessons.
Special Note: Mandatory each semester for guitar performance majors; 8 credits minimum required for guitar majors in music education; may be repeated for credit.
Designed to improve the effectiveness of guitar performance, build confidence and stage presence by exploring technique and interpretation through actual stage experience. Problems arising from public performance will be discussed and solutions offered. The proper stylistic approach to works of specific composers will be addressed.

MUS 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: ED A471.
Principles, procedures, and materials for teaching music to children at the elementary level.

MUS A472 Secondary Music Methods 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A232 and ED A321.
Registration Restrictions: Admission to teacher certification.
Crosslisted with: ED A472.
Methods and problems of teaching music in junior and senior high schools with emphasis on the general music program.

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**NURSING SCIENCES - NS**

http://nursing.uaa.alaska.edu/son/
Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 103, 786-4550

NS A204 Technology and Nursing Informatics 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 and ENGL A213 and [PHIL A101 or PHIL A201] or ENGL A120.
Registration Restrictions: Admission to Clinical Nursing Major or RN licensure in the State of Alaska.
Special Fees.
Concepts and applications of nursing informatics in health care organizations. Evaluate the impact of technology on nursing practice and on client education, including privacy and security issues. Explore electronic resources available to clients and nurses.

NS A216 Pathophysiology 4 CR
Contact Hours: 4 + 0
Prerequisites: BIOL A112 with minimum grade of C and CHEM A104 with minimum grade of C and CHEM A104L with minimum grade of C.
Registration Restrictions: Admission to Clinical Nursing major or RN licensure in State of Alaska.
Special Fees.
Offered Fall and Spring Semesters.
Basic conceptual study of disease and the resultant abnormal functioning. Key concepts are utilized to assist students to develop knowledge and understanding of basic physiologic mechanisms of disease.

NS 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 A304.
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.

NS 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.

NS A303 Foundations of Nursing II: Therapeutics 3 CR
Contact Hours: 3 + 0
Prerequisites: NS A204 and NS A216.
Corequisite: NS A300 and NS A304.
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.

NS A304 Foundations of Nursing III: 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.
Offered Fall and Spring Semesters.
Application of the nursing process and basic therapeutic nursing intervention in the laboratory and selected clinical settings.

NS A305 Health Assessment of Individuals 2 CR
Contact Hours: 2 + 0
Registration Restrictions: RN licensure in State of Alaska
Corequisite: NS A305L.
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.
Contact Hours: 3 + 0
Prerequisites: NS A204.
Special Fees.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS 305.

NS A308 Dimensions of Professional Nursing Practice 3 CR
Contact Hours: 3 + 0
Prerequisites: NS A203 with minimum grade of C and NS A310 with minimum grade of C and NS A310L with minimum grade of P.
Registration Restrictions: RN licensure in the State of Alaska.
Offered Fall Semesters.
Contact Hours: 0 + 12
Prerequisites: NS A203 with minimum grade of C and NS A310 with minimum grade of C and NS A310L with minimum grade of P.
Corequisite: NS A311L.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS 310.

NS A310 Medical Surgical Nursing 3 CR
Contact Hours: 3 + 0
Prerequisites: DN A203 with minimum grade of C and NS A305 with minimum grade of C and NS A306 with minimum grade of C and NS A305L with minimum grade of C and NS A306L with minimum grade of C and NS A309 with minimum grade of P.
Corequisite: NS A310L.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS 310.

NS A310L Medical Surgical Nursing Lab 4 CR
Contact Hours: 0 + 12
Prerequisites: DN A203 with minimum grade of C and NS A305 with minimum grade of C and NS A306 with minimum grade of C and NS A309 with minimum grade of C and NS A305L with minimum grade of C and NS A306L with minimum grade of C and NS A309L with minimum grade of C and NS A310 with minimum grade of P.
Corequisite: NS A310.
Grade Mode: Pass/No Pass.
Special Fees.
Clinical experience to build skills and reinforce student learning in NS 310.

NS A311 Nursing the Childbearing Family 2 CR
Contact Hours: 2 + 0
Prerequisites: NS A310 with minimum grade of C and NS A318 with minimum grade of C and NS A310L with minimum grade of C.
Corequisite: NS A311L.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS 311.

NS A311L Nursing the Childbearing Family Lab 2 CR
Contact Hours: 0 + 6
Prerequisites: NS A310 with minimum grade of C and NS A318 with minimum grade of C and NS A310L with minimum grade of C and NS A311L with minimum grade of P.
Corequisite: NS A311.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS 311.

NS A312 Nursing the Childrearing Family 2 CR
Contact Hours: 2 + 0
Prerequisites: NS A310 with minimum grade of C and NS A318 with minimum grade of C.
Corequisite: NS A312.
Offered Fall and Spring Semesters.
Application of nursing and other caring processes and critical thinking skills to provide professional nursing care to childrearing families. Focus of course content is on the provision of care to families with infants, children, and adolescents who are experiencing altered states of health.

NS A312L Nursing the Childrearing Family Lab 2 CR
Contact Hours: 0 + 6
Prerequisites: NS A310 with minimum grade of C and NS A318 with minimum grade of C and NS A310L with minimum grade of C and NS A312L.
Corequisite: NS A312.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS 312.

NS A313 Health Disruptions I 2 CR
Contact Hours: 2 + 0
Prerequisites: NS A216 and NS A309 and NS A300 and NS A303 and NS A304.
Corequisite: NS A313L and NS A313S.
Offered Fall and Spring Semesters.
Emphasis on episodic health disruptions occurring across the life span. Nursing therapeutics utilized focus on nursing management of the individual, the family, and the environment to optimize wellness.

NS A313L Health Disruptions I Laboratory 3 CR
Contact Hours: 0 + 9
Prerequisites: NS A216 and NS A309 and NS A300 and NS A303 and NS A304.
Corequisite: NS A313 and NS A313S.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS 313.

NS A313S Health Disruptions I Seminar 1 CR
Contact Hours: 2 + 0
Prerequisites: NS A216 and NS A309 and NS A300 and NS A303 and NS A304.
Corequisite: NS A313L and NS A313S.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS 313.

NS A314 Health I for Registered Nurses 2 CR
Contact Hours: 2 + 0
Prerequisites: NS A204 and NS A308.
Registration Restrictions: RN licensure in the State of Alaska.
Corequisite: NS A314.
Emphasizes health promotion, illness prevention, and health protection strategies for individuals, families, and small groups. Focus on promoting healthy lifestyles across the life span. Class will introduce concepts of community health nursing, epidemiology, and injury.

NS A314L Health I for Registered Nurses Lab 2 CR
Contact Hours: 0 + 6
Prerequisites: NS A204 and NS A308.
Corequisite: NS A314.
Grade Mode: Pass/No Pass.
Clinical experience in NS 314L will build skills and reinforce learning in NS 314. This course focuses on health promotion, illness prevention, and health protection strategies for individuals, families, and small groups.

NS A315 Health I: Nursing Therapeutics 2 CR
Contact Hours: 2 + 0
Prerequisites: NS A216 and NS A300 and NS A300 and NS A304 and NS A309.
Corequisite: NS A315L and NS A315S.
Offered Fall and Spring Semesters.
Emphasizes health states and risk factors in individuals and families across the life span that are amenable to health promotion and illness prevention efforts, achieving and maintaining healthy lifestyles, as well as self-management of health.

NS A315L Health I: Nursing Therapeutics Laboratory 3 CR
Contact Hours: 0 + 9
Prerequisites: NS A216 and NS A300 and NS A300 and NS A304 and NS A309.
Corequisite: NS A315 and NS A315S.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS 315.
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<th>Credit Hours</th>
<th>Prerequisites</th>
<th>Contact Hours:</th>
<th>Registration Restrictions:</th>
<th>Special Fees.</th>
<th>Offered Semester:</th>
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<tbody>
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<td>NS A315S</td>
<td>Health I: Nursing Therapeutics Seminar</td>
<td>1 CR</td>
<td>NS A216 and NS A300 and NS A303 and NS A304 and NS A309.</td>
<td>2 + 0</td>
<td>RN licensure in Alaska; RN choosing prior college credit track.</td>
<td>Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A318</td>
<td>Professional and Legal Perspectives in Nursing</td>
<td>3 CR</td>
<td>NS A204.</td>
<td>3 + 0</td>
<td>Prior completion of a statistics course.</td>
<td>Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td>NS A319</td>
<td>Research In Nursing</td>
<td>3 CR</td>
<td>NS A318 with minimum grade of C.</td>
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<td>Prior completion of a statistics course.</td>
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<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td>NS A321</td>
<td>Introduction to Nursing Research</td>
<td>1 CR</td>
<td>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.</td>
<td>1 + 0</td>
<td>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 qualitative nursing research studies.</td>
<td>Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A322</td>
<td>Quantitative Approaches to Nursing Research</td>
<td>1 CR</td>
<td>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.</td>
<td>1 + 0</td>
<td>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 qualitative nursing research studies.</td>
<td>Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td>NS A323</td>
<td>Qualitative Approaches to Nursing Research</td>
<td>1 CR</td>
<td>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.</td>
<td>1 + 0</td>
<td>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.</td>
<td>Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A331</td>
<td>Current Issues and Trends in Maternal-Child Nursing</td>
<td>2 CR</td>
<td>Registration Restrictions: RN licensure in Alaska; RN choosing prior college credit track.</td>
<td>2 + 0</td>
<td>RN licensure in Alaska; RN choosing prior college credit track.</td>
<td>Special Fees.</td>
<td>Offered Fall Semesters.</td>
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<tr>
<td>NS A401</td>
<td>Health Disruptions I</td>
<td>2 CR</td>
<td>NS A313 and NS A313S and NS A313L and NS A315 and NS A315S and NS A315L.</td>
<td>2 + 0</td>
<td>RN licensure in Alaska; RN choosing prior college credit track.</td>
<td>Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A401L</td>
<td>Health Disruptions II Laboratory</td>
<td>3 CR</td>
<td>NS A401 and NS A401S.</td>
<td>0 + 9</td>
<td>RN licensure in Alaska; RN choosing prior college credit track.</td>
<td>Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td>NS A402</td>
<td>Health II: Nursing Therapeutics</td>
<td>2 CR</td>
<td>NS A402S.</td>
<td>2 + 0</td>
<td>RN licensure in Alaska; RN choosing prior college credit track.</td>
<td>Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td>NS A402L</td>
<td>Health I: Nursing Therapeutics Laboratory</td>
<td>3 CR</td>
<td>NS A402 and NS A402S.</td>
<td>0 + 9</td>
<td>RN licensure in Alaska; RN choosing prior college credit track.</td>
<td>Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A403</td>
<td>Community Nursing I</td>
<td>2 CR</td>
<td>NS A403L.</td>
<td>2 + 0</td>
<td>RN licensure in Alaska; RN choosing prior college credit track.</td>
<td>Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td>NS A403S</td>
<td>Health II: Nursing Therapeutics Seminar</td>
<td>1 CR</td>
<td>NS A402L.</td>
<td>2 + 0</td>
<td>RN licensure in Alaska; RN choosing prior college credit track.</td>
<td>Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A404L</td>
<td>Health I: Nursing Therapeutics Laboratory</td>
<td>3 CR</td>
<td>NS A403L.</td>
<td>2 + 0</td>
<td>RN licensure in Alaska; RN choosing prior college credit track.</td>
<td>Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td>NS A405</td>
<td>Health II: Nursing Therapeutics</td>
<td>2 CR</td>
<td>NS A405L.</td>
<td>2 + 0</td>
<td>RN licensure in Alaska; RN choosing prior college credit track.</td>
<td>Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
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### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NS A403L</td>
<td>Community Nursing I Lab</td>
<td>2 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>0 + 6</td>
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<tr>
<td>Prerequisites:</td>
<td>(NS A403 or concurrent enrollment).</td>
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<td>Registration Restrictions:</td>
<td>Grade of C or better in all required 300-level nursing courses</td>
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<td>Grade Mode:</td>
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<td>Offered Fall and Spring Semesters.</td>
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<td>Clinical experience to build skills and reinforce student learning in NS 403.</td>
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| 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 Pin NS A403L. Basic students: grade of C or better in NS A403, A405, and A415. Grade of Pin NS A403Land NS A405L. All students: concurrent enrollment in NS 404L. Corequisite: NS A404L. Offered Fall and Spring Semesters. |         |
| Grade Mode:    | Pass/No Pass.                                            |         |
| Special Fees:  | 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 Pin NS A403L. Basic students: grade of C or better in NS A403, A405, and A415. Grade of Pin NS A403Land NS A405L. All students: concurrent enrollment in NS 404L. Corequisite: NS A404L. |         |
| 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:  | Offered Fall and Spring Semesters.                       |         |
| Clinical experience to build skills and reinforce student learning in NS 405. |         |

| NS A406        | Nursing Therapeutics in Complex Health Disruptions       | 2 CR    |
| Contact Hours: | 2 + 0                                                    |         |
| Prerequisites: | (NS A401 and NS A401S and NS A401L).                    |         |
| Registration Restrictions: | For all RN students: completion of NS A314 and NS A314Lwith a minimum grade of C. Corequisite: NS A406L. Offered Fall and Spring Semesters. |         |
| Corequisite:   | NS A406L                                                 |         |
| Grade Mode:    | Pass/No Pass.                                            |         |
| Special Fees:  | 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 A401S and NS A401L).                    |         |
| Registration Restrictions: | For all RN students: completion of NS A314 and NS A314Lwith a minimum grade of C. Corequisite: NS A406L. |         |
| Corequisite:   | NS A406L                                                 |         |
| 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 A407        | Advanced Medical Surgical Nursing                        | 1.5 CR  |
| Contact Hours: | 1.5 + 0                                                  |         |
| Registration Restrictions: | RN students in prior college credit track: completion of all support and 300-level courses. Basic students: grade of C or better in NS A403, A405, and A415. Grade of Pin NS A403Land NS A405L. Corequisite: NS A407L. Offered Fall and Spring Semesters. |         |
| Grade Mode:    | Pass/No Pass.                                            |         |
| Special Fees:  | Offered Fall and Spring Semesters.                       |         |
| Continued development of professional nursing skills necessary to meet the needs of ill adults. Emphasis and clinical experience are on the care of elderly clients and those who require critical care, rehabilitation, and other skilled nursing care services in traditional and non-traditional settings, including the home. |         |

| NS A407L       | Advanced Medical Surgical Nursing Lab                    | 1.5 CR  |
| Contact Hours: | 0 + 4.5                                                  |         |
| Registration Restrictions: | RN students in prior college credit track: completion of all support and 300-level courses. Basic students: grade of C or better in NS A403, A405, and A415. Grade of Pin NS A403Land NS A405L. Corequisite: NS A407L. |         |
| Grade Mode:    | Pass/No Pass.                                            |         |
| Special Fees:  | Offered Fall and Spring Semesters.                       |         |
| Competency validation of the knowledge and skills in psychiatric-mental health nursing that are typically included in associate degree and diploma nursing education programs. |         |

| NS A409        | Psychiatric-Mental Health Nursing I (Exam for Credit)    | 3 CR    |
| Contact Hours: | 3 + 0                                                    |         |
| Registration Restrictions: | RN licensure in Alaska; admission to RN option with nursing major. Grade of C or better in all support and 300-level courses. RN students in challenge exam track: successful performance on NS 409 exam for credit. |         |
| Grade Mode:    | Pass/No Pass.                                            |         |
| Special Fees:  | Offered Fall and Spring Semesters.                       |         |
| Advanced concepts in psychiatric-mental health nursing. Emphasis on case finding and referral in the community, nursing management of individuals and families with chronic mental health disruptions in community settings, and on promotion of community mental health. |         |

| NS A410        | Psychiatric/Mental Health Nursing II                     | 2 CR    |
| Contact Hours: | 2 + 0                                                    |         |
| Prerequisites: | (NS A410Lor concurrent enrollment).                      |         |
| Registration Restrictions: | RN licensure in Alaska; admission to RN option with nursing major. Grade of C or better in all support and 300-level courses. RN students in challenge exam track: successful performance on NS 409 exam for credit. |         |
| Grade Mode:    | Pass/No Pass.                                            |         |
| Special Fees:  | Offered Spring Semesters.                                |         |
| Clinical experience to build skills and reinforce student learning in NS 410. |         |

| NS A410L       | Psychiatric/Mental Health Nursing II Lab                 | 1 CR    |
| Contact Hours: | 0 + 3                                                    |         |
| Prerequisites: | (NS A410 or concurrent enrollment).                      |         |
| Registration Restrictions: | RN licensure in Alaska; admission to RN option with nursing major. Grade of C or better in all support and 300-level courses. RN students in challenge exam track: successful performance on NS 409 exam for credit. |         |
| Grade Mode:    | Pass/No Pass.                                            |         |
| Special Fees:  | Offered Spring Semesters.                                |         |

| 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. |         |
| 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. Basic theories of management in relation to the health care delivery system. Emphasis is on the role of the professional nurse at various levels of the organizational hierarchy. |         |

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https://www.uaa.alaska.edu
<table>
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<th>Course Description</th>
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| NS A416 Concentration in Clinical Nursing | 5 | 3 + 0 | Corequisite: NS A416L with minimum grade of C and NS A402L with minimum grade of P
| NS A416L Concentration in Clinical Nursing Lab | 3.5 | 0 + 10.5 | Prerequisites: NS A402 with minimum grade of C and NS A402S with minimum grade of C and NS A402L with minimum grade of P
| NS A417 Management in Nursing | 3 | 3 + 0 | Registration Restrictions: RN licensure in Alaska
| NS A418 Sexual Assault Response Team Certification | 4 | 3 + 3 | Registration Restrictions: Current RN licensure in State of Alaska
| NS A422 Nursing Interventions for the Critically Ill Adult | 2-3 | 2 + 0-3 | Registration Restrictions: Grade of C or better in all required 300-level nursing courses
| NS A423 Transcultural Nursing | 3 | 3 + 0 | Registration Restrictions: Grade of C or better in all required 300-level clinical courses or RN licensure in State of Alaska
| NS A424 Issues In Women’s Health | 3 | 3 + 0 | Registration Restrictions: Grade of C or better in all required 300-level clinical courses or RN licensure in State of Alaska
| NS A426 Critical Care Concepts in Acute Care Settings | 3 | 3 + 0 | Registration Restrictions: RN licensure in state of Alaska
| NS A427 Care of Victims of Family Violence | 3 | 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 A428 Nursing the Chemically Dependent Client | 3 | 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 | 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
| NS A430 Rural Health Care | 3 | 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 | 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 A432 Political Action in Nursing and Health Care | 3 | 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 | 3 + 0 | Registration Restrictions: Grade of C or better in Nursing Foundations I, II, and III or RN licensure in State of Alaska

*Contact Hours: 1 + 0
Prerequisites: NS A402 with minimum grade of C and NS A402S with minimum grade of C and NS A402L with minimum grade of P
Corequisite: NS A416L
Grade Mode: Pass/No Pass.
Offered Fall and Spring Semesters.

Integration and synthesis of knowledge and skills 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.

| Contact Hours: 0 + 10.5
Prerequisites: NS A402 with minimum grade of C and NS A402S with minimum grade of C and NS A402L with minimum grade of Pand NS A406L with minimum grade of Pand NS A406L
Grade Mode: Pass/No Pass.
Offered Fall and Spring Semesters.

Clinical experience to build skills and reinforce student learning in NS A416.

Grade Mode: Pass/No Pass.

Registration Restrictions: RN licensure in Alaska.

Basic theories and organization in relation to health care delivery systems. Emphasizes the role of the professional nurse in health care organizations and presents 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 for use in future management decision making.

| 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.

| 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.

| 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

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.

| 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

Exploration of current issues, research, controversies affecting women’s health with a focus on health promotion and maintenance. Life cycle issues will be addressed. Special needs and interventions for unique populations will be addressed. The focus on health promotion and maintenance and an advocacy viewpoint suggest this course for health professionals.

| 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

Emphasis is on 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.

| 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

Introduction to the operating room, its origin and purpose, including functions of the operating room team members. Covers the perioperative nursing role as it relates to a client undergoing surgery. The nursing process is utilized as a basis for planning, implementing, and evaluating individualized care.

| 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

Rural health care analyzed from a problem solving framework. Specific issues to be addressed include: historical perspectives of rural health care; behavioral, cultural, and environmental factors affecting health; access to and utilization of health care systems; responsibility for rural health care policy; and strategies for improving rural health. Alaskan communities are utilized as a focus for the clinical portion of the course.

| 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

Explores physiological, psychological and social nature of human sexuality and implications for nursing personnel. Emphasizes individual and group sexual behavior. Explores impact of illness on sexuality and role of professional nurse.

| Contact Hours: 3 + 0
Registration Restrictions: Grade of C or better in Nursing Foundations I, II, and III or RN licensure in State of Alaska

An exploration of the political process on the local, state, and national levels as it relates to nursing practice and health care issues. Includes analysis of political strategies that can be applied in professional nursing practice to support effectiveness in meeting client advocacy responsibilities.

| 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

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.
### Course Descriptions

**NS A434 Health Care of the Elderly**  
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.  
Overview of issues which affect older adults and their lifestyles. Addresses normal physiological and psychosocial aging changes, and health concepts of prevention, promotion, and protection. Includes issues affecting care giving of older family members in a multitude of settings. Explores health policies which have financial, legal, and ethical implications. Highlights special needs of Alaskan elderly.

**NS A435 Disaster Management in Health Care**  
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.  
Overview focusing on types of disasters, their effects and the subsequent role of federal, state, and local agencies in management. Examines roles of the health care agency and the individual health care provider. Examines pre-hospital support services utilization.

**NS A436 Home Health Nursing**  
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.  
Application of medical surgical, psychiatric, and community nursing knowledge and skill to the nursing management of health disrupted clients requiring nursing services in home settings.

**NS A437 Nursing Informatics**  
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.  
Concepts and applications of nursing informatics in health care organizations, to include managing nursing care and administering nursing services. The impact of informatics and the evolution of computerized systems in health care are explored.

**NS A438 Managed Care: Issues and Practice**  
Contact Hours: 3 + 0  
Registration Restrictions: Grade of C or better in all required NS 300 level clinical courses or RN licensure in State of Alaska.  
The role of the nurse in interdisciplinary practice of managed care to include case management and home health environments. Issues to include ethics, economics, accountability, and health care reforms. The historical and social evolution of managed care, including regulatory, legislative, financial, and sociocultural considerations. Practice in computer applications for health care information systems.

**NS A601 Advanced Pathophysiology**  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing or faculty permission required.  
Special Fees.  
Critical review and analysis of disease processes and resulting abnormal functioning across the life span. A case study approach is used to foster refinement of critical thinking in interpreting pathophysiological changes that result in clinical manifestations indicative of illness.

**NS A602 Advanced Health Assessment in Primary Care**  
Contact Hours: 3 + 0  
Registration Restrictions: RN license in the state of Alaska; undergraduate level in health and physical assessment.  
Special Fees.  
Designed to provide a systematic approach to advanced assessment of physical, sociocultural, developmental, and spiritual aspects of individuals across the life span. The course builds on basic health assessment knowledge and skills, laboratory, and radiology interpretation, validation, documentation, and analysis of assessment findings.

**NS A610 Pharmacology for Primary Care**  
Contact Hours: 3 + 0  
Registration Restrictions: Current Licensure to practice as a Registered Nurse in the State of Alaska.  
Special Fees.  
Offered Spring Semesters.  
An advanced level pharmacology course that assists health care professionals in the selecting, prescribing, and monitoring of pharmaceutical agents utilized in the primary care setting in the community. Legend drugs, over-the-counter agents, and some complementary therapeutics will be discussed. Emphasis is on the pharmacodynamics of medications most commonly prescribed for the treatment of respiratory diseases, infections, genitourinary disease, preventive health, dermatological diseases, musculoskeletal conditions, cardiovascular diseases, depression and anxiety, and reproductive health.

**NS A620 Nursing Research Methods**  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing, grade of C or better in undergraduate research course, and basic statistics course.  
Special Fees.  
Offered Alternate Spring Semesters.  
Principles of the research process including nursing research problem identification, literature review, development of conceptual framework, research design, sampling and data collection methods, data analysis, and proposal writing. Enhancement of skills for evaluation of nursing research. Focus on planning of Master’s degree research in nursing.

**NS A621 Knowledge Development for Advanced Nursing Practice**  
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**  
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**  
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**  
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 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.

**NS A625L Biostatistics for Health Professionals Lab**  
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 + 6
Prerequisites: NS A650 and [NS A625 or HS A625].
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 + 6
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 A657  Occupational and Environmental Health  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
An overview of factors within the environment and worksite that influence public health. Environmental topics include the identification and control of health problems related to wastes, animals, pollution and the contaminants of food, water, and milk. Occupational emphasis is placed on the epidemiology of work related problems, principles of industrial hygiene, and the health risk of various occupations.

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 truct, 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.
Special Fees.
Offered as Demand Warrants.
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.
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/haison 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: Gradate 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).
Offered as Demand Warrants.
Elements of administrative processes within the health care system. Personal
and interpersonal competencies and maximization of resource allocation to
optimize effective leadership and management are emphasized.

NS A682L Administrative Services Field Work 1 CR
Contact Hours: 0 + 3
Prerequisites: (NS A682 or concurrent enrollment).
Registration Restrictions: RN licensure in Alaska.
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 + 6
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.
Registration Restrictions: Graduate standing.
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 - 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 (ENGL 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 predicted responses in the health state; concepts related to
health disruptions are introduced. Additional emphasis is placed on assessment
for special needs according to developmental level. Admission to the associate of
applied science in nursing program (clinical major).

NURS A120L Nursing Fundamentals Lab 4 CR
Contact Hours: 0 + 12
Prerequisites: (Biol A111 with minimum grade of C or concurrent enrollment)
and (ENGL A111 with minimum grade of C or concurrent enrollment) and (PSY
A150 with minimum grade of C or concurrent enrollment).
Corequisite: NURS A120.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall Semesters.
Provides laboratory and clinical experiences to reinforce student learning in
NURS A120.

NURS A125 Adult Nursing I 3 CR
Contact Hours: 3 + 0
Prerequisites: NURS A120 with minimum grade of C and NURS A120L with
minimum grade of C and ENGL A111 with minimum grade of C and BIOL
A111 with minimum grade of C and PSY A150 with minimum grade of C and
(NURS A125L with minimum grade of C or concurrent enrollment) and (NURS
A180 with minimum grade of C or concurrent enrollment) and (Biol A112 with
minimum grade of C or concurrent enrollment) and (BIOL A240 with minimum
grade of C or concurrent enrollment).
Offered Spring Semesters.
Introduction to nursing care of ill adults. Builds upon knowledge gained in
nursing fundamentals. Students learn pathophysiology, treatment options, and
nursing care for adult patients with health problems that require some alteration in
lifestyle to enable performance of activities of daily living.

NURS A125L Adult Nursing I Lab 4 CR
Contact Hours: 0 + 12
Prerequisites: (NURS A180 with minimum grade of C or concurrent enrollment)
and (BIOL A112 with minimum grade of C or concurrent enrollment) and (BIOL
A240 with minimum grade of C or concurrent enrollment).
Corequisite: NURS A125.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Spring Semesters.
Provides laboratory and clinical experiences to reinforce student learning in
NURS 125.

NURS A150 Nursing Role Transition for LPN 8 CR
Contact Hours: 8 + 0
Prerequisites: ENGL 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 LPN’s. 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.

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http://www.uaa.alaska.edu
NURS A180  Basic Nursing Pharmacology  3 CR
Contact Hours:  3 + 0
Prerequisites: (NURS A125 with minimum grade of C or concurrent enrollment) and (NURS A125L with minimum grade of C or concurrent enrollment) and (BIOL A112 with minimum grade of C or concurrent enrollment) and (BIOL A240 with minimum grade of C or concurrent enrollment) and (ENGL A111 with minimum grade of C and 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.
Introduction to drug therapy. Emphasis on basic pharmacology principles, drug action, correct dosages, methods of administration, and evaluation of patient response. Nursing process is used to identify priorities for care of patients receiving specific medications.

NURS A220  Perinatal Nursing  2 CR
Contact Hours:  2 + 0
Prerequisites: NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C.
Corequisite: DN A203, NURS A220L, NURS A221, NURS A222 and NURS A222L.
Offered Fall Semesters.
Teaches utilization of the nursing process in providing nursing care for the patient experiencing pregnancy and childbirth and for the neonate, along the health illness continuum. Ranges from normal, low risk perinatal care to high risk complications of the perinatal patient and family. Covers antepartal, intrapartal, postpartal and neonatal care.

NURS A220L  Perinatal Nursing Lab  2 CR
Contact Hours:  0 + 6
Corequisite: DN A203, NURS A220, NURS A221, NURS A222 and NURS A222L.
Grade Mode: Pass/No Pass.
Special Fees.
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.

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 A111 with minimum grade of C and ENGL A211 with minimum grade of C and 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.
Builds upon prior theoretical content and psychomotor skills from previous nursing courses. The nursing process continues to be used as students expand their knowledge of pathophysiology and provide care for adult medical-surgical patients with acute, complex and life-threatening disorders.

NURS A225L  Adult Nursing II Lab  3 CR
Contact Hours:  0 + 9
Corequisite: 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 A111 with minimum grade of C and ENGL A211 with minimum grade of C and ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C and BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and PSY A150 with minimum grade of C and DN A203 with minimum grade of C.
Registration Restrictions: Complete one social science elective.
Corequisite: NURS A225, NURS A250, NURS A250L and NURS A255.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Spring Semesters.
Provides laboratory and clinical experience to reinforce student learning in NURS 225.

NURS A250  Psychiatric Nursing  2 CR
Contact Hours:  2 + 0
Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and ENGL A111 with minimum grade of C and ENGL A111 with minimum grade of C and ENGL A211 with minimum grade of C and ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C and BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and PSY A150 with minimum grade of C and DN A203 with minimum grade of C.
Registration Restrictions: Complete one social science elective.
Corequisite: NURS A225, NURS A225L, NURS A250L and NURS A255.
Offered Spring Semesters.
Designed to teach psychodynamics of the major mental illnesses and principles of psychiatric nursing. Emphasis placed on application of the nursing process utilizing nursing principles to care for inpatients at all developmental levels. Students adapt communication skills to facilitate therapeutic interventions with patients experiencing mental illness.
## OCCUPATIONAL SAFETY AND HEALTH - OSH

**NURS A250L** Psychiatric Nursing Lab 2 CR
- Contact Hours: 0 + 6
- Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and NURS A222L with minimum grade of C and NURS A225 with minimum grade of C and NURS A225L with minimum grade of C and NURS A240 with minimum grade of C and NURS A240L with minimum grade of C and NURS A250 with minimum grade of C and NURS A250L 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.
- Offered Spring Semesters.
- Provides laboratory and clinical experiences to reinforce student learning in NURS 250.

**NURS A255** Staff Nurse: Legal, Ethical, and Organizational Issues 1 CR
- Contact Hours: 2 + 0
- Prerequisites: NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and NURS A225 with minimum grade of C and NURS A225L with minimum grade of C and NURS A225L with minimum grade of C and NURS A225L with minimum grade of C and NURS A225L with minimum grade of C.
- Registration Restrictions: Good physical health.
- Corequisites: NURS A225, NURS A225L, NURS A250 and NURS A255.
- Grade Mode: Pass/No Pass.
- Offered Spring Semesters.
- Introductory seminar on application of the nursing process to legal, ethical, and organizational dilemmas encountered in daily nursing practice. Includes consideration of the role of staff nurse within the organization; students develop knowledge necessary to function effectively as the staff nurse role as a member of the nursing and health care teams. Legal limits of nursing practice and trends in the regulation of nursing practice are discussed.

**NURS A295** Intensive Clinical Practicum 2 CR
- Contact Hours: 4 + 64
- Prerequisites: NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A221 with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and NURS A222L with minimum grade of C and NURS A222L with minimum grade of C.
- Grade Mode: Pass/No Pass.
- Special Fees.
- Special Note: Two-week duration. 32 hours per week with preceptor and 2 hours per week in seminar. Some lifting may be required.
- Concentrated clinical work to familiarize graduating nurses with clinical registered nurse responsibilities.

**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. Stressing 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 sources and types 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

**OSH A101** Introduction to Occupational Safety and Health 3 CR
- Contact Hours: 3 + 0
- Introduces regulatory, consensus, environmental and industrial standards applicable to the occupational safety and health profession. Examines the role of the safety professional and the philosophy of safety and health in the workplace.

**OSH A108** Injury Prevention and Risk Management 4 CR
- Contact Hours: 3 + 2
- Identifies safety, health management, and incident prevention in the workplace. Emphasizes materials handling, electrical and machine safety, first response to fire and medical emergencies, safety and health hazards, and accident prevention.

**OSH A110** Program Assessment, Development, and Implementation 4 CR
- Contact Hours: 4 + 0
- Prerequisites: OSH A108.
- Examines the role of a safety program in the workplace. Emphasizes program assessment, design, development, implementation, and evaluation of safety programs.

**PADM A601** Introduction to Public Administration 3 CR
- Contact Hours: 3 + 0
- Offered Fall and Spring Semesters.
- Introduction to the field of public administration. Deals with the scope, nature, history, current context, and basic tools in the study of public administration. Topics covered include social, economic, and political environments of public administration, and comparative administration, bureaucratic politics, power and authority, law, ethics and administration, basic models, and comparative administration.
PADM 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.

PADM 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.

PADM A634 Natural Resource Policy Administration 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Special Fees.
Case studies in Alaska natural resource management explore issues such as common property resources, resource evaluation, multiple-use management, co-management, dual jurisdiction, the role of federal, state, and regional agencies, mediation, and paradigms of conservation and development.

PADM A635 Program Evaluation 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Offered as Demand Warrants.
Theory and practice of program evaluation, including: types of evaluation; focusing an evaluation; qualitative and quantitative methods for assessing needs, implementation, and outcomes; experimental and quasi experimental designs; ethics; and communicating findings.

PADM A640 Alternative Dispute Resolution 1-3 CR
Contact Hours: 1-3 + 0
Reviews literature and principles of alternative dispute resolution. Focuses on negotiation and mediation as ways to resolve individual conflicts, group conflicts and public disputes.

PADM A659 Public Administration Capstone 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Analysis of selected public administration issues. Topics will be announced in the published class schedule.

PADM 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.
Offered Fall and Spring Semesters.
Introduces legal processes in democratic society. Includes skills for conducting basic legal research.

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 rules 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 JUSTA110] 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.
Prerequisites: PARL A101.
Offered Spring Semesters.
Extensive research and written work applying legal principles to assigned fact patterns. Develops students' ability to perform objective written evaluations of legal issues in legal memoranda as well as persuasive advocacy in formal briefs.

PARL A354    Substantive Criminal Law                3 CR
Contact Hours:  3 + 0
Prerequisites: PARL A101 or JUSTA110.
Crosslisted with: JUSTA352.
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 A357    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 organizations.

PARL A375    Litigation                            3 CR
Contact Hours:  3 + 0
Prerequisites: PARL A238 or PARL A354.
Registration Restrictions: PARL A256 recommended.
Special Fees.
Offered Spring Semesters.
Forms of dispute settlement with emphasis on alternative dispute resolution, mediation, arbitration, settlement in the legal context, litigation, the management of discovery, trial and evidence.

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.
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].
Special Fees.
Prerequisites: PARL A101.
Offered Fall 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 A470    Law of Government Regulation            3 CR
Contact Hours:  3 + 0
Prerequisites: PARL A101.
Offered Fall 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.

PE A102    Beginning Roller-Hockey                   1 CR
Contact Hours:  .5 + 1
Special Fees.
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].
Special Fees.
Prerequisites: PARL A101.
Offered Fall 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.

PE A103    Beginning Basketball                     1 CR
Contact Hours:  .5 + 1
Special Fees.
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].
Special Fees.
Prerequisites: PARL A101.
Offered Fall 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.

PE A104    Beginning Hockey                         1 CR
Contact Hours:  .5 + 1
Special Fees.
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].
Special Fees.
Prerequisites: PARL A101.
Offered Fall 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.

PE A105    Beginning Tennis                         1 CR
Contact Hours:  .5 + 1
Special Fees.
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].
Special Fees.
Prerequisites: PARL A101.
Offered Fall 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.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>PE A111</td>
<td>Beginning Golf</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td>Introduces the basic skills and knowledge associated with playing golf. Applies basic principles of golf through active participation.</td>
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<td>PE A112</td>
<td>Beginning Bowling</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td>Introduces the basic skills and knowledge associated with bowling. Applies basic principles of bowling through active participation.</td>
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<td>PE A115</td>
<td>Beginning Swimming</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td>Introduces proper breathing technique and basic strokes for those with little or no swimming background. Emphasizes personal water safety.</td>
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<td>PE A119</td>
<td>Lifetime Personal Fitness</td>
<td>2 CR</td>
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<td>Introduces key concepts associated with lifetime personal fitness. Presents a variety of physical activities for improved health-related fitness. Combines lecture with lab sessions.</td>
<td></td>
</tr>
<tr>
<td>PE A120</td>
<td>Fitness Cross Training</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
<td></td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces a wide variety of cross training exercise formats for total fitness. Develops individual fitness through a variety of workouts, such as step aerobics, weight training, lateral training, circuit training, and fitness walking.</td>
<td></td>
</tr>
<tr>
<td>PE A121</td>
<td>Soft Aerobics</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Special Fees.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduces key concepts related to lifetime personal fitness. Presents a variety of beginning level aerobic exercise routines for improved physical fitness. Designed for individuals who have not participated in regular exercise and would like to begin a safe and effective fitness program.</td>
<td></td>
</tr>
<tr>
<td>PE A122</td>
<td>Aerobics</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: PE A121.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Special Fees.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduces key concepts related to lifetime personal fitness. Presents a variety of intermediate intensity aerobic exercise routines such as step aerobics, lateral training, circuit training, and interval training for improved physical fitness.</td>
<td></td>
</tr>
<tr>
<td>PE A123</td>
<td>Aqua Aerobics</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Special Fees.</td>
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</tr>
<tr>
<td></td>
<td>Introduces key concepts related to lifetime personal fitness. Presents a variety of aqua aerobic exercise routines such as deep water jogging, aerobics to music, circuit training, and interval training. Designed for swimmers and non-swimmers.</td>
<td></td>
</tr>
<tr>
<td>PE A124</td>
<td>Country Western Workout</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
<td></td>
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<tr>
<td></td>
<td>Special Fees.</td>
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</tr>
<tr>
<td></td>
<td>Introduces country line dancing as an effective way to improve cardiorespiratory fitness and muscular endurance. Covers basic dance terminology and conditioning exercises for specific muscles.</td>
<td></td>
</tr>
<tr>
<td>PE A125</td>
<td>Muscle Fitness</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
<td></td>
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<tr>
<td></td>
<td>Special Fees.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduces key concepts related to lifetime personal fitness. Presents a variety of non-aerobic exercises such as light weight training, resistance bands, circuit training, and interval training for improved skill-related fitness, muscular endurance, and flexibility.</td>
<td></td>
</tr>
<tr>
<td>PE A126</td>
<td>Shape Up with Weights</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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</tr>
<tr>
<td></td>
<td>Introduces key concepts related to lifetime personal fitness. Presents a variety of resistance exercises to tone and condition major muscle groups. Introduces total program planning, including cardiorespiratory training, flexibility exercises, and healthy nutritional practices.</td>
<td></td>
</tr>
<tr>
<td>PE A127</td>
<td>Beginning Weight Training</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Special Fees.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduces key concepts related to lifetime personal fitness. Presents resistance exercises to strengthen and condition major muscle groups.</td>
<td></td>
</tr>
<tr>
<td>PE A128</td>
<td>Circuit Training</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
<td></td>
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<tr>
<td></td>
<td>Special Fees.</td>
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</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>PE A129</td>
<td>Aerobic Kickboxing</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Presents the fundamentals of intermediate intensity kickboxing, martial arts-based aerobics, and interval training for improved physical fitness.</td>
<td></td>
</tr>
<tr>
<td>PE A130</td>
<td>Beginning Yoga</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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</tr>
<tr>
<td></td>
<td>Introduces Kundalini Yoga physical exercises, breathing techniques, and relaxation exercises.</td>
<td></td>
</tr>
<tr>
<td>PE A131</td>
<td>Yoga for Runners and Skiers</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
<td></td>
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<tr>
<td></td>
<td>Special Fees.</td>
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</tr>
<tr>
<td></td>
<td>Introduces Kundalini Yoga physical exercises, breathing techniques, and relaxation exercises designed for recreational and competitive walkers, runners, and cross country skiers. Presents stretching, strengthening, breath control, and mental conditioning exercises for improved performance and enjoyment.</td>
<td></td>
</tr>
<tr>
<td>PE A132</td>
<td>Beginning Tai Chi</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Special Fees.</td>
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</tr>
<tr>
<td></td>
<td>Introduces Chen Style Tai Chi exercises designed for improved health, tranquility, energy, and strength.</td>
<td></td>
</tr>
<tr>
<td>PE A133</td>
<td>Beginning Karate</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Special Fees.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduces Karate philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.</td>
<td></td>
</tr>
<tr>
<td>PE A134</td>
<td>Beginning Kung Fu</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<tr>
<td></td>
<td>Special Fees.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduces Northern Shaolin Kung Fu philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.</td>
<td></td>
</tr>
<tr>
<td>PE A135</td>
<td>Beginning Kendo</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces Kendo, the art of Japanese fencing. Training and discipline on the physical, mental, and spiritual levels will be covered.</td>
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</tr>
<tr>
<td>PE A136</td>
<td>Beginning Tae Kwon Do</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
<td></td>
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<tr>
<td></td>
<td>Special Fees.</td>
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</tr>
<tr>
<td></td>
<td>Introduces Tae Kwon Do philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual level will be covered.</td>
<td></td>
</tr>
<tr>
<td>PE A140</td>
<td>Introduction to Fitness Leadership</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces basics of cardiorespiratory, metabolic, neuromuscular, environmental exercise physiology, biomechanics, and kinesiology in regard to safe exercise. Designed for individuals interested in working in the fitness industry as a fitness instructor or personal trainer.</td>
<td></td>
</tr>
<tr>
<td>PE A141</td>
<td>Techniques in Fitness Instruction</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1 + 2</td>
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<td></td>
<td>Special Fees.</td>
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<td></td>
<td>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.</td>
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</tr>
<tr>
<td>PE A142</td>
<td>Techniques in Personal Training</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1 + 2</td>
<td></td>
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<tr>
<td></td>
<td>Special Fees.</td>
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</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE A160</td>
<td>Introduction to Coaching</td>
<td>2 CR</td>
</tr>
</tbody>
</table>
| Contact Hours: 2 + 0  
Special Fees: 0  
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: 0  
Introduces basic knowledge of sport injuries, including identifying common sport injuries and administering appropriate first aid. |
| PE A202     | Intermediate Roller-Hockey                | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A102.  
Special Fees: 0  
Develops intermediate 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: 0  
Develops intermediate level in-line skating techniques and roller-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: 0  
Develops intermediate level power skating techniques and soccer skills. Applies offensive and defensive strategies of soccer through active participation. |
| PE A205     | Intermediate Hockey                       | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A105.  
Special Fees: 0  
Develops intermediate level power skating techniques and hockey skills. Applies defensive and offensive strategies and tactics. |
| PE A206     | Intermediate Volleyball                   | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A106.  
Special Fees: 0  
Develops intermediate level power skating techniques and hockey skills. Applies defensive and offensive strategies of volleyball through active participation. |
| PE A207     | Intermediate Tennis                       | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A107.  
Special Fees: 0  
Develops intermediate level power skating techniques and tennis skills. Applies offensive and defensive strategies of tennis through active participation. |
| PE A208     | Intermediate Racquetball                  | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A108.  
Special Fees: 0  
Develops intermediate level power skating techniques and racquetball skills. Applies offensive and defensive strategies of racquetball through active participation. |
| PE A209     | Intermediate In-Line Skating              | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A109.  
Special Fees: 0  
Develops intermediate level in-line skating skills and stunts. Applies intermediate level in-line skating skills through active participation. |
| PE A210     | Intermediate Ice Skating                   | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A110.  
Special Fees: 0  
Develops intermediate level 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: 0  
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: 0  
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: 0  
Develops and refines swimming skills, physical conditioning, and knowledge of training and competition. Designed for intermediate to competitive level swimmers. |
| PE A222     | PowerAerobics                             | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A122.  
Special Fees: 0  
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 A223     | PowerAqua Aerobics                        | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A123.  
Special Fees: 0  
Introduces basic knowledge of sport injuries, including identifying common sport injuries and administering appropriate first aid. |
| PE A230     | Intermediate Yoga                         | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A130.  
Special Fees: 0  
Introduces basic knowledge of sport injuries, including identifying common sport injuries and administering appropriate first aid. |
| PE A232     | Intermediate Tai Chi                      | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A132.  
Special Fees: 0  
Introduces basic knowledge of sport injuries, including identifying common sport injuries and administering appropriate first aid. |
| PE A233     | Intermediate Karate                       | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A133.  
Special Fees: 0  
Introduces basic knowledge of sport injuries, including identifying common sport injuries and administering appropriate first aid. |
| PE A234     | Intermediate Kung Fu                      | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A134.  
Special Fees: 0  
Introduces basic knowledge of sport injuries, including identifying common sport injuries and administering appropriate first aid. |
| PE A235     | Intermediate Kendo                        | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A135.  
Special Fees: 0  
Introduces basic knowledge of sport injuries, including identifying common sport injuries and administering appropriate first aid. |
| PE A236     | Intermediate Tae Kwon Do                  | 1 CR         |
| Contact Hours: .5 + 1  
Prerequisites: PE A136.  
Special Fees: 0  
Introduces basic knowledge of sport injuries, including identifying common sport injuries and administering appropriate first aid. |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE A240</td>
<td>Issues in Fitness Leadership</td>
<td>3 CR</td>
<td>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, basic emergency procedures, legal issues, and professional responsibilities of fitness instructors and personal trainers.</td>
</tr>
<tr>
<td>PE A241</td>
<td>Techniques in Fitness Instruction II</td>
<td>2 CR</td>
<td>Examines a wide range of issues related to exerciser’s varied needs. Presents techniques for assessment, program implementation, progression, and exercise prescription for general and special populations. Conducted in a classroom and lab setting for hands-on experience.</td>
</tr>
<tr>
<td>PE A242</td>
<td>Techniques in Personal Training II</td>
<td>2 CR</td>
<td>Examines a wide range of issues related to exerciser’s varied needs. Presents techniques for assessment, program implementation, progression, and exercise prescription for general and special populations. Conducted in a classroom and lab setting for hands-on experience.</td>
</tr>
<tr>
<td>PE A243</td>
<td>Techniques in Aqua Fitness Instruction</td>
<td>2 CR</td>
<td>Examines special considerations for safely instructing an aqua fitness program. Presents principles of exercise in water, pool safety, deck versus water instruction, requirements of a water exercise instructor, designing a water exercise class, and use of equipment. Conducted in a classroom and lab setting for hands-on experience.</td>
</tr>
<tr>
<td>PE A245</td>
<td>Emergency Water Safety and Lifeguarding</td>
<td>2 CR</td>
<td>Presents professional lifeguard training to prevent, recognize, and manage aquatic emergencies. Successful completion can result in National Pool and Waterpark Lifeguard License. Includes CPR-First Aid and supplemental oxygen support.</td>
</tr>
<tr>
<td>PE A246</td>
<td>Water Safety Instructor Training</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>PE A250</td>
<td>Advanced Racquetball</td>
<td>1 CR</td>
<td>Emphasizes game strategy and develops advanced racquetball skills. Applies advanced offensive and defensive strategies of racquetball through active participation.</td>
</tr>
<tr>
<td>PE A251</td>
<td>Advanced In-Line Skating</td>
<td>1 CR</td>
<td>Emphasizes and develops advanced in-line skating skills and stunts. Applies advanced principles of in-line skating through active participation.</td>
</tr>
<tr>
<td>PE A252</td>
<td>Advanced Figure Skating</td>
<td>1 CR</td>
<td>Emphasizes and develops intermediate to advanced figure skating skills. Applies advanced principles of ice skating, program development, and choreography.</td>
</tr>
<tr>
<td>PE A253</td>
<td>Advanced Weight Training</td>
<td>1 CR</td>
<td>Presents key concepts related to lifetime personal fitness. Applies advanced techniques for resistance exercises to strengthen and condition major muscle groups through correct use of variable resistance equipment and free weights.</td>
</tr>
<tr>
<td>PE A254</td>
<td>Advanced Hockey</td>
<td>1 CR</td>
<td>Expands on key concepts related to power skating for improved performance in ice hockey. Applies principles of balance, skating strides, crossovers, and physical conditioning through active participation.</td>
</tr>
<tr>
<td>PE A255</td>
<td>Advanced Strength and Power Training</td>
<td>2 CR</td>
<td>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.</td>
</tr>
<tr>
<td>PE A261</td>
<td>Drugs and Sport</td>
<td>1 CR</td>
<td>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.</td>
</tr>
<tr>
<td>PE A264</td>
<td>Coaching Soccer</td>
<td>2 CR</td>
<td>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.</td>
</tr>
<tr>
<td>PE A265</td>
<td>Coaching Volleyball</td>
<td>2 CR</td>
<td>Introduces basketball coaching techniques, including developing offensive and defensive positions, skills, and handling game situations.</td>
</tr>
<tr>
<td>PE A266</td>
<td>Coaching Hockey</td>
<td>2 CR</td>
<td>Introduces basketball coaching techniques, including developing offensive and defensive positions, skills, and handling game situations.</td>
</tr>
<tr>
<td>PE A267</td>
<td>Coaching Football</td>
<td>2 CR</td>
<td>Introduces basketball coaching techniques, including developing offensive and defensive positions and tactics, and handling game situations.</td>
</tr>
<tr>
<td>PE A268</td>
<td>Coaching Baseball/Softball</td>
<td>2 CR</td>
<td>Introduces baseball coaching techniques, including developing positions and skills, and handling game situations.</td>
</tr>
</tbody>
</table>
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>PE A269</td>
<td>Coaching Track and Field/Running</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1.5 + 1</td>
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</tr>
<tr>
<td></td>
<td>Introduces track &amp; field and running coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.</td>
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</tr>
<tr>
<td>PE A270</td>
<td>Coaching Skiing</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1.5 + 1</td>
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</tr>
<tr>
<td></td>
<td>Introduces nordic and alpine skiing coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.</td>
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</tr>
<tr>
<td>PE A271</td>
<td>Coaching Swimming and Diving</td>
<td>2 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 1.5 + 1</td>
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<tr>
<td></td>
<td>Introduces wrestling coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.</td>
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</tr>
<tr>
<td>PE A272</td>
<td>Coaching Gymnastics</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1.5 + 1</td>
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<tr>
<td></td>
<td>Introduces gymnastics coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.</td>
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<tr>
<td>PE A273</td>
<td>Coaching Wrestling</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1.5 + 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduces wrestling coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.</td>
<td></td>
</tr>
<tr>
<td>PE A274</td>
<td>Coaching Figure Skating</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1.5 + 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: PE A110.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduces figure skating coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.</td>
<td></td>
</tr>
</tbody>
</table>

**PETROLEUM TECHNOLOGY - PETR**

**Offered through Kenai Peninsula College**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PETR A105</td>
<td>Petroleum Science I</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: MATH A055.</td>
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<tr>
<td></td>
<td>Offered only at Kenai Peninsula College.</td>
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<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>PETR A106</td>
<td>Petroleum Science II</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: PETR A105 and [MATH A105 or MATH A101].</td>
<td></td>
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<td></td>
<td>Offered only at Kenai Peninsula College.</td>
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<tr>
<td></td>
<td>Basic heat and material as balances encountered in surface processing operations. Applies hydrocarbon properties to specific process material balances. Operation of gas-oil separators, gas dehydration equipment, fired heaters and boilers, and cryogenic natural gas processing.</td>
<td></td>
</tr>
<tr>
<td>PETR A120</td>
<td>Surface Oil Field Equipment I</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Offered only at Kenai Peninsula College.</td>
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<tr>
<td></td>
<td>Specializes in oil field equipment and terminology for drilling-related activities.</td>
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</tr>
<tr>
<td>PETR A121</td>
<td>Surface Oil Field Equipment II</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: PETR A120.</td>
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<td></td>
<td>Offered only at Kenai Peninsula College.</td>
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<tr>
<td></td>
<td>Emphasizes post-drilling operations such as well stimulation fundamentals, well logging and wireline procedures, knowledge of well control and gas lift procedures and equipment. Introduces fishing and directional drilling.</td>
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</tr>
<tr>
<td>PETR A140</td>
<td>Industrial Process Instrumentation I</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td></td>
<td>Prerequisites: MATH A055.</td>
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</tr>
<tr>
<td></td>
<td>Registration Restrictions: Reading Placement Test.</td>
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<tr>
<td></td>
<td>Crosslisted with: PRT A140.</td>
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<td></td>
<td>Offered only at Kenai Peninsula College.</td>
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<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>PETR A144</td>
<td>Industrial Process Instrumentation II</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: PETR A140 with minimum grade of C or PRT A140 with minimum grade of C.</td>
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<tr>
<td></td>
<td>Crosslisted with: PRT A144.</td>
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<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

**PHILLOSOPHY - PHIL**

**http://cwolf.uaa.alaska.edu/~asphil/**

**Offered through the College of Arts and Sciences**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>PHIL A101</td>
<td>Introduction to Logic</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td></td>
<td>Course Attributes: GER Humanities Requirement.</td>
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<tr>
<td></td>
<td>Analyzes argumentation and informal fallacies; introduces deductive logic, and examines inductive evidence in scientific and practical reasoning.</td>
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</tr>
<tr>
<td>PHIL A201</td>
<td>Introduction to Philosophy</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td></td>
<td>Course Attributes: GER Humanities Requirement.</td>
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</tr>
<tr>
<td></td>
<td>Introduces works of influential thinkers, both ancient and modern, in the Western philosophical tradition. Emphasizes central problems of knowledge, reality, and good and evil.</td>
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</tr>
<tr>
<td>PHIL A211</td>
<td>History of Philosophy I</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td></td>
<td>Course Attributes: GER Humanities Requirement.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
**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 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.  
A survey of biomedical 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.  
A historical and comparative analysis of Western, non-Western, indigenous and Native American philosophies, concerning the intrinsic, aesthetic and use values of nature and the land. Contemporary environmental ethics, including deep ecology, the land ethic, ecofeminism, and animal rights theories will be examined in detail. There will also be a focus on the ethical issues surrounding contemporary environmental controversies, such as land management, wildlife management, wilderness designation, sustainability, biodiversity and species preservation, private property and public commons, environmental racism, human overpopulation, development versus preservation, laboratory use of animals, vivisection, animal farming, subsistence, and sports hunting.

**PHIL 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 A310 Philosophy of Love** 3 CR  
Contact Hours: 3 + 0  
Examines a variety of concepts of and approaches to the experience of love and human isolation as these developed in both the Eastern and Western philosophical traditions.

**PHIL A313A Eastern Philosophy and Religion** 1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: Recommended: ENGL A111.  
Grade Mode: Pass/No Pass.  
Course Attributes: GER Humanities Requirement.  
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  
Crosslisted 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 A320 Existentialism** 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Recommended completion of at least one PHIL course above the 100 level.  
Existentialism is a recent movement in philosophy that studies the obstacles to creating personal meaning and the sources of spiritual anxiety and alienation. Intensive study of the methods and theories of the major philosophers of this movement (Kierkegaard, Nietzsche, Heidegger, and Sartre) with attention to their philosophical backgrounds and some influences of their work on the feminist movement, psychotherapy, literature, and theology.

**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 A421 Philosophy of the Social Sciences** 3 CR  
Contact Hours: 3 + 0  
A general introduction to the philosophical problems common to the social sciences, focusing on issues concerning method, epistemology, and modes of explanation.

**PHYSICS - PHYS**

[http://www.uaa.alaska.edu/~afjpp/physics.html](http://www.uaa.alaska.edu/~afjpp/physics.html)  
Offered through the College of Arts and Sciences  
Engineering Building (ENGR), Room 339, 786-1238

**PHYS A101 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/chairperson to register for this course.  
Special Fees.  
Special Note: Designed to meet physics requirements of several industrial and career related programs, but primarily the AMTP Program.  
Basic instruction in mechanics, thermodynamics, and physical properties of matter.

**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.
### Course Descriptions

**PHYS A123**  
**Basic Physics I**  
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**  
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**  
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**  
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**  
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**  
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**  
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**  
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**  
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**  
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**  
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.

**PMED A101**  
**Paramedic I**  
Contact Hours: 7 + 2  
Prerequisites: (PMED A195A or concurrent enrollment).  
Registration Restrictions: Acceptance in the Paramedical Technology Program.  
- Introduces EMS, roles and responsibilities. Emphasizes anatomy and physiology of the circulatory, respiratory, and nervous systems and related rescue procedures.

**PMED A105**  
**Paramedic II**  
Contact Hours: 6 + 4  
Prerequisites: PMED A101 and (PMED A195B or concurrent enrollment).  
- Covers cardiovascular rhythms, pharmacology, and Advanced Cardiac Life Support.

**PMED A120**  
**Paramedic III**  
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**  
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**  
Contact Hours: 0 + 8  
Prerequisites: (PMED A105 or concurrent enrollment).  
Grade Mode: Pass/No Pass.  
- Perform paramedic skills in hospital departments of: emergency, intensive care, surgery, labor and delivery, pediatrics, and psychiatry.

**PMED A195C**  
**Clinical Rotation III**  
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**  
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**  
Contact Hours: 2 + 2  
Registration Restrictions: Current U.S. Paramedic License.  
- Integrates paramedicine knowledge and techniques with evaluation of applied skills.

**Preparatory English - PRPE**  
Offered through the Community and Technical College  
- Sully Monseur Building (SMB), Room 102, 786-6856  
**PRPE A050**  
**ESL Basic Conservation Skills**  
Contact Hours: 3 + 0  
- Special Note: Student entering this course must have an advising slip signed by faculty. Call the Advising and Counseling Center for appointment times. May be repeated one time for credit.

- For high-level beginning to low-level intermediate students. Improves vocabulary acquisition and usage and the ability to communicate orally in everyday and academic situations by developing Standard American English language listening and speaking skills.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Grade Mode</th>
<th>Special Fees</th>
<th>Special Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRPE A051</td>
<td>ESL Basic Reading and Writing</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ASSETReading Skills with score of 27.</td>
<td>Pass/No Pass</td>
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</tr>
<tr>
<td>PRPE A052</td>
<td>Campus Orientation</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>ASSETReading Skills with score of 27.</td>
<td>Pass/No Pass</td>
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<tr>
<td>PRPE A054</td>
<td>Classroom Success</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>ASSETReading Skills with score of 27.</td>
<td>Pass/No Pass</td>
<td></td>
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<tr>
<td>PRPE A060</td>
<td>Slingerland I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ASSETReading Skills with score of 30.</td>
<td>Pass/No Pass</td>
<td></td>
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<tr>
<td>PRPE A062</td>
<td>Multi-Sensory Reading</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ASSETReading Skills with score of 30.</td>
<td>Pass/No Pass</td>
<td></td>
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<tr>
<td>PRPE A064</td>
<td>Multi-Sensory Grammar/Writing</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ASSETReading Skills with score of 30.</td>
<td>Pass/No Pass</td>
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<tr>
<td>PRPE A066</td>
<td>Slingerland II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ASSETReading Skills with score of 30.</td>
<td>Pass/No Pass</td>
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<tr>
<td>PRPE A072</td>
<td>Individualized Reading Lab</td>
<td>1-3 CR</td>
<td>0 + 2-6</td>
<td>ASSETReading Skills with score of 30.</td>
<td>Pass/No Pass</td>
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<tr>
<td>PRPE A074</td>
<td>Vocabulary Skill Building</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
<td>ASSETReading Skills with score of 30.</td>
<td>Pass/No Pass</td>
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<tr>
<td>PRPE A076</td>
<td>Reading Strategies</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ASSETReading Skills with score of 34.</td>
<td>Pass/No Pass</td>
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<td>PRPE A082</td>
<td>Refresher Writing Lab</td>
<td>1-3 CR</td>
<td>.5-1.5 + 1-3</td>
<td>ASSET Reading Skills with score of 30.</td>
<td>Pass/No Pass</td>
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<tr>
<td>PRPE A084</td>
<td>Grammar and Sentence Skills</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
<td>ASSET Writing Skills with score of 30.</td>
<td>Pass/No Pass</td>
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<tr>
<td>PRPE A107</td>
<td>Basic College Reading</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ASSET Writing Skills with score of 35 or PRPE A084 with minimum grade of C.</td>
<td>Pass/No Pass</td>
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</tr>
<tr>
<td>PRPE A108</td>
<td>Basic Composition II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ASSET Writing Skills with score of 40 or PRPE A086 with minimum grade of C.</td>
<td>Pass/No Pass</td>
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<tr>
<td>PRPE A109</td>
<td>Introduction to Occupational Safety, Health, and Environmental Awareness</td>
<td>3 CR</td>
<td>3 + 0</td>
<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>
<td>Pass/No Pass</td>
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</tbody>
</table>

**Process Technology - PRT**

Offered through Kenai Peninsula College
34320 College Dr., Soldotna, Alaska, 99669, (907) 262-0300

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PRT A110</td>
<td>Introduction to Occupational Safety, Health, and Environmental Awareness</td>
<td>3 CR</td>
</tr>
<tr>
<td>PRT A130</td>
<td>Process Technology I: Equipment</td>
<td>4 CR</td>
</tr>
</tbody>
</table>
PS A201 Topics in Politics 1-3 CR
Contact Hours: 1-3 + 0
Special Note: Subtitle varies; may be repeated for credit with a different subtitle.
A topic of contemporary or continuing interest in Alaska politics, American politics, comparative politics, and/or international relations, treated at the introductory level.

PS A301 Comparative Political Economy 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
The dynamic interaction of politics and economics in a variety of local, national, and international settings. The course considers how power determines the nature of the economic system and how the economic process redistributes power and wealth.

PS A311 Comparative Politics 3 CR
Contact Hours: 3 + 0
Course Attributes: 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 United States foreign policy. Constitutional provisions and the politics of policy making are treated. This course also focuses on contemporary foreign policy problems.

PS A334 Model United Nations 1/3 CR
Contact Hours: 1+3 or 0
Special Fees.
Special Note: To earn 1 credit, students must prepare to debate by acquainting themselves with their nation-state and the topic. To earn 3 credits, students must also submit two term papers. May be repeated once for credit.
A student simulation of the United Nations. Acting as nation-state delegates, students research and debate a topic of international concern.

PS A330 The American Political Tradition 3 CR
Contact Hours: 3 + 0
The political theory of liberal democracy examined in its application to crucial events in American political history.

PS A331 Political Philosophy 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: 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.

PS A333 History of Political Philosophy II: Modern 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement.
Political philosophy from Machiavelli to Nietzsche, with emphasis on liberalism and its critics.

PS A341 Congress 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
The organization of Congress and its role in the American political system. Theories of representative government, the internal dynamics of Congress, and forces influencing Congress’s ability to act within the constitutional system are among the topics examined.

POLITICAL SCIENCE - PS
Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 356, 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PS A342</td>
<td>The American Presidency</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<td></td>
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<tr>
<td>Prerequisites: PS A101 or PS A102.</td>
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<tr>
<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>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: PS A101 or JUSTA101.</td>
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<tr>
<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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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: PS A101.</td>
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<tr>
<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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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: PS A101.</td>
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<tr>
<td>Special Note: May be applied to the Alaska Culture and History requirements for State of Alaska teacher recertification.</td>
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<tr>
<td>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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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Registration Restrictions: Upper Division Standing.</td>
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<tr>
<td>Crosslisted with: AKNS A346.</td>
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<tr>
<td>Special Note: May be applied to the Alaska Culture and History requirements for State of Alaska teacher recertification.</td>
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<tr>
<td>PS A347</td>
<td>Public Administration</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: PS A101 or PS A102.</td>
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<tr>
<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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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: PS A101 or PS A102.</td>
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<tr>
<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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<tr>
<td>Crosslisted with: SOC A351.</td>
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<tr>
<td>Course Attributes: GER Social Sciences Requirement.</td>
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<tr>
<td>Introduction to the social aspects of politics and the nature and distribution of power in society. Examination of the dynamic relationship of the political process and the institutions of society.</td>
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<tr>
<td>PS A353</td>
<td>Political Behavior, Participation, and Democracy</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: PS A101 or PS A102.</td>
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<tr>
<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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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: PS A102 or SOC A101.</td>
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<tr>
<td>Crosslisted with: SOC A361.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>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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<tr>
<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: PS A101 or PS A102 or Junior standing.</td>
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<tr>
<td>Crosslisted with: AKNS A411.</td>
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<tr>
<td>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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<tr>
<td>PS A424</td>
<td>International Law and Organization</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: PS A101 or PS A102.</td>
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<tr>
<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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<tr>
<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: PS A101.</td>
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<tr>
<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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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: PS A101.</td>
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<tr>
<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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<tr>
<td>Contact Hours: 1-3 + 0</td>
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<tr>
<td>Prerequisites: PS A101 or PS A102.</td>
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<tr>
<td>Registration Restrictions: Junior standing.</td>
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<tr>
<td>Stacked with: PS A690.</td>
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<tr>
<td>Special Note: Subtitle varies; may be repeated with different subtitles.</td>
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<tr>
<td>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 studies will vary from year to year.</td>
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<tr>
<td>PS A492</td>
<td>Senior Seminar in Politics</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Registration Restrictions: Senior standing.</td>
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<tr>
<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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<tr>
<td>PS A495</td>
<td>Internship in Political Science</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: PS A101 or PS A102.</td>
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<tr>
<td>Registration Restrictions: Faculty permission required.</td>
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<tr>
<td>Special Note: Internships vary; may be repeated once for credit with a different internship.</td>
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<tr>
<td>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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<tr>
<td>PS A690</td>
<td>Studies in Politics</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: PS A101 or PS A102.</td>
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<tr>
<td>Stacked with: PS A690.</td>
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<tr>
<td>Special Note: Subtitle varies; may be repeated with different subtitles.</td>
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<tr>
<td>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 studies will vary from year to year.</td>
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</table>
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

Contact Hours: 3 + 0

Special Note: Does not satisfy BA or BS in Psychology degree requirements.

PSY A110 General Psychology

Contact Hours: 3 + 0

Course Attributes: GER Social Sciences Requirement.

PSY A120 Parenting: More than Discipline

Contact Hours: 3 + 0

Crosslisted with: ED A120.

PSY A130 Crisis Line/Shelter Advocacy

Contact Hours: 1 + 0

PSY A135 Domestic Violence and Sexual Assault Advocacy Training

Contact Hours: 1 + 0

PSY A143 Death and Dying

Contact Hours: 3 + 0

PSY A150 Human Development

Contact Hours: 3 + 0

PSY A153 Human Relations

Contact Hours: 3 + 0

Crosslisted with: HUMS A153.

PSY A169 Human Sexuality

Contact Hours: 3 + 0

PSY A170 Rational Living

Contact Hours: 1 + 0

PSY A203 Assertiveness Training

Contact Hours: 3 + 0

Registration Restrictions: One social science course.

PSY A230 Psychology of Adjustment

Contact Hours: 3 + 0

Registration Restrictions: One social science course.

PSY A245 Child Development

Contact Hours: 3 + 0

Registration Restrictions: One social science course.

PSY A250 Crisis Line/Shelter Advocacy

Contact Hours: 1 + 0

PSY A313 Psychology of Women

Contact Hours: 3 + 0

Prerequisites: PSY A111.

Registration Restrictions: Recommended corequisite PSY A261.

PSY A316 Motivation and Emotion

Contact Hours: 3 + 0

Prerequisites: PSY A111.

PSY A328 Comparative Psychology

Contact Hours: 3 + 0

Prerequisites: PSY A111.

Registration Restrictions: One other psychology course.

PSY A345 Psychology of Abnormal Behavior

Contact Hours: 3 + 0

Prerequisites: PSY A111.

Offered Fall and Spring Semesters.

Integrates current DSM taxonomy with current research and prevailing theoretical orientations of the biopsychosocial model with attention to multicultural, gender and developmental issues.

PSY A345

Contact Hours: 3 + 0

Prerequisites: PSY A111.

Offered Fall and Spring Semesters.

Integrates current DSM taxonomy with current research and prevailing theoretical orientations of the biopsychosocial model with attention to multicultural, gender and developmental issues.

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http://www.uaa.alaska.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Offered Semester(s)</th>
<th>Additional Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY A350</td>
<td>Drugs and Drug-Taking Behavior</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A111.</td>
<td>Stacked with: HS A350.</td>
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<tr>
<td></td>
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<td></td>
<td>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.</td>
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<tr>
<td>PSY A355</td>
<td>Learning and Cognition</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>PSY A261 and PSY A260.</td>
<td>Special Fees.</td>
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<td>Special Note: Student needs to be familiar with research and statistics in psychology discipline, not statistics in general. Student needs to be comfortable with independent t-tests, one- and two-way ANOVA, between group designs, and comparisons of correlation coefficients. A laboratory component provides a series of exercises illustrating important learning principles. Offered Fall and Spring Semesters.</td>
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<tr>
<td>PSY A366</td>
<td>Perception</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A111 and PSY A261.</td>
<td>Special Fees.</td>
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<tr>
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<td></td>
<td>Special Note: Student needs to be familiar with research and statistics in psychology discipline, not statistics in general. Student needs to be comfortable with independent t-tests, one- and two-way ANOVA, between group designs, and comparisons of correlation coefficients. A laboratory component provides a series of exercises illustrating important learning principles. Offered Fall and Spring Semesters.</td>
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<tr>
<td>PSY A368</td>
<td>Personality Theories</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A111 or PSY A150.</td>
<td>Offered Fall and Spring Semesters.</td>
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<td>Survey of theories of personality with contemporary relevance. Emphasizes relevant research findings. Develops student competencies in the understanding and prediction of human behavior, thought, and feeling.</td>
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<tr>
<td>PSY A370</td>
<td>Physiological Psychology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A261 and [PSY A260 or AS A252].</td>
<td>Offered Fall and Spring Semesters.</td>
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<td>Structures and functions of the central nervous system and how these may explain behavior phenomena.</td>
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<tr>
<td>PSY A372</td>
<td>Community Psychology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A111.</td>
<td>Registration Restrictions: One other psychology course.</td>
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<td>An examination of interaction theories and research applied to communications, dynamics of power, confrontation and conflict, and creative problem solving.</td>
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<tr>
<td>PSY A375</td>
<td>Psychology of Social Behavior</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A111 or PSY A150.</td>
<td>Offered Fall and Spring Semesters.</td>
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<td>Focuses on the behavior of individuals in social situations and examines why individuals behave, think, and feel as they do in the presence of others. Includes social perceptions and inferences, prejudice, interpersonal conflict, self-awareness, attitudes, conformity, group processes, and environmental influences on social behavior.</td>
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<tr>
<td>PSY A380</td>
<td>Stress Management: Coping with</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A111.</td>
<td>Registration Restrictions: One other psychology course.</td>
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<tr>
<td></td>
<td>Personal, Family, and Work Stress</td>
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<td>Special Fees.</td>
<td>Special Fees.</td>
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<td>Examines the use of self-regulation techniques in the management of stress. Topics include cognitive behavior strategies, goal setting, time management, assertiveness training, relaxation techniques, biofeedback, diet, exercise, and alternative health practices.</td>
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<tr>
<td>PSY A381</td>
<td>Substance Abuse Treatment</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>HS A350 or PSY A350.</td>
<td>Crosslisted with: HS A381.</td>
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<td>To strengthen knowledge of substance use and abuse and of substance counseling skills regarding the principles and practices of treatment. Techniques of instruction will include lectures, group discussions, resource persons and independent guided study skills.</td>
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<td>Special Note: May be repeated for a maximum of 9 credits. Participation in a collaborative research group under the supervision of a faculty member. The student will help formulate a research question and assist in carrying out the study. The findings will be reported in a paper or presented at a conference.</td>
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<tr>
<td>PSY A412</td>
<td>History of Modern Psychology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A261 and PSY A260.</td>
<td>Special Fees.</td>
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<td>Special Note: An equivalent elementary statistics course may be substituted for PSY A260 prerequisite. Influential theories and concepts related to contemporary psychology and an overview of psychological thought for students who intend graduate study.</td>
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<tr>
<td>PSY A420</td>
<td>Research Methods in Experimental Psychology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A111 and PSY A261 and [PSY A260 or AS A252].</td>
<td>Special Fees.</td>
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<td>A survey of the essential elements of research design, from formulating an experiment, statistically analyzing the data, to interpreting and reporting the results. Useful to those anticipating a project (such as thesis) and also valuable to those who wish to better understand the research reports they read.</td>
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<tr>
<td>PSY A425</td>
<td>Clinical Psychology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Prior completion of PSY A345 or concurrent enrollment and three other psychology courses.</td>
<td>A survey of current psychotherapeutic approaches, including basic assumptions, techniques and related research findings. A discussion of ethics and professional issues is included.</td>
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</tr>
<tr>
<td>PSY A427</td>
<td>Field Experience in Psychology</td>
<td>3 CR</td>
<td>1 + 6</td>
<td>Registration Restrictions: Declared psychology major and 12 credits of psychology. For non-majors, faculty permission required. Stacked with: PSY A627.</td>
<td>Special Note: May be repeated for credit with faculty permission. Maximum of 6 credits may be applied to psychology major and psychology minor. Undergraduates working in supervised settings that provide psychological services. The course exposes advanced psychology majors to information about a wide variety of Alaskan human services. Students assist and observe six hours per week in one of these agencies.</td>
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</tr>
<tr>
<td>PSY A435</td>
<td>Psychodynamic Theory</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A345 or PSY A368.</td>
<td>Stacked with: PSY A635.</td>
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<td>Provides an overview of theories of psychoanalysis and psychodynamic approaches to development and personality structure. Theories are discussed primarily within a compare-and-contrast framework; however, relevant empirical investigations supporting or critiquing psychodynamic theory are also discussed and critiqued. Focus is placed on theorists such as Freud, Jung, Horney, and Kohut. Developmental research and its implications for this school of thought are presented and discussed.</td>
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<tr>
<td>PSY A443</td>
<td>Introduction to Substance Abuse and AIDS</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A350 or HS A350.</td>
<td>Stacked with: PSY A643.</td>
<td>Special Note: PSY A643 cannot be applied toward the MS degree in Clinical Psychology if PSY A443 was previously taken for credit. An introduction to the physical and psychological sequelae of Human Immunodeficiency Virus (HIV) and Acquired Immunodeficiency Syndrome (AIDS). Focus is placed on this disease in relation to substance abuse, including HIV risk reduction for drug users.</td>
</tr>
<tr>
<td>PSY A445</td>
<td>Strategies of Behavior Change</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A355.</td>
<td>Techniques and applications in applied behavior analysis and behavioral change strategies (e.g., social skills, classroom management, desensitization modeling, Cognitive Behavior Therapy, video training). Provides exposure to selected agencies in supervised practice.</td>
<td></td>
</tr>
</tbody>
</table>

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http://www.uaa.alaska.edu
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. PSY456 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 A480 Contemporary Issues in Addiction Studies 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: HS A350 or PSY A350.
Crosslisted with: HS A480.
Stacked with: PSY A680.
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.
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.

PSY A482 Advanced Treatment of Substance Abuse 3 CR
Contact Hours: 3 + 0
Prerequisites: HS A381 or PSY A381.
Stacked with: PSY A682.
Special Note: PSY A682 cannot be applied toward the MS degree in Clinical Psychology if PSY A482 was previously taken for credit.
Emphasis is on conceptualizing treatment of 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.

PSY A485 Health Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 and PSY A370.
Psychological aspects of health and disease are presented with an emphasis on current research. Includes stress and stress reduction, relations between behavior and health, psychological aspects of pain and chronic illnesses, psychological factors in successfully obtaining medical treatment.

PSY A488 Introduction to Substance Abuse Assessment 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A350 or HS A350.
Stacked with: PSY A688.
Special Note: PSY A688 cannot be applied toward the MS degree in Clinical Psychology if PSY A488 was previously taken for credit.
Tests and measurement are reviewed with an exclusive focus on substance abuse assessment methods. Topics of classical theory, reliability, validity, test construction, and item analysis are discussed.

PSY A490 Distinguished Practitioners Series 1 CR
Contact Hours: 1 + 0
Registration Restrictions: 12 credits of psychology.
Stacked with: PSY A690.
Specific 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 SeniorSeminar: 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.
Specific 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 SeniorThesis 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Contact Hours</th>
<th>Prerequisites:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY A622</td>
<td>Psychopathology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td></td>
</tr>
<tr>
<td>PSY A623</td>
<td>Psychotherapy Skills</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>(PSY A623 or concurrent enrollment).</td>
</tr>
<tr>
<td>PSY A624</td>
<td>Group Therapy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>(PSY A623 or concurrent enrollment).</td>
</tr>
<tr>
<td>PSY A626</td>
<td>Family Therapy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>(PSY A623 or concurrent enrollment).</td>
</tr>
<tr>
<td>PSY A627</td>
<td>Agency and Community Field Experience</td>
<td>3 CR</td>
<td>2 + 5</td>
<td></td>
</tr>
<tr>
<td>PSY A631</td>
<td>Cognitive Behavior Therapy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>(PSY A623 or concurrent enrollment).</td>
</tr>
<tr>
<td>PSY A633</td>
<td>Psychological Assessment</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A473 and (PSY A623 or concurrent enrollment).</td>
</tr>
<tr>
<td>PSY A635</td>
<td>Advanced Psychodynamic Theory and Therapy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A345 or PSY A368.</td>
</tr>
<tr>
<td>PSY A637</td>
<td>Organizational Environments</td>
<td>3 CR</td>
<td>3 + 0</td>
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</tr>
<tr>
<td>PSY A638</td>
<td>Child-Clinical Psychology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td></td>
</tr>
<tr>
<td>PSY A639</td>
<td>Advanced Research Methods</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A420 or PSY A261.</td>
</tr>
<tr>
<td>PSY A641</td>
<td>Applications of Community Psychology</td>
<td>3 CR</td>
<td>1 + 6</td>
<td>(PSY A623 or concurrent enrollment).</td>
</tr>
<tr>
<td>PSY A642</td>
<td>Issues in Developmental Disabilities</td>
<td>3 CR</td>
<td>3 + 0</td>
<td></td>
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<tr>
<td>Course Description</td>
<td>Credits</td>
<td>Contact Hours</td>
<td>Prerequisites</td>
<td>Registration Restrictions</td>
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<tr>
<td>PSY A643 AIDS and Substance Abuse Counseling</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>[HS A350 or PSY A350] and PSY A623. Registration Restrictions: BAor BS degree.</td>
<td>PSY A350 or HS A350, or relevant professional experience.</td>
</tr>
<tr>
<td>PSY A645 Advanced Psychotherapy Skills</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A622 and PSY A623. Registration Restrictions: Admission to MS clinical psychology program.</td>
<td>Offered as Demand Warrants.</td>
</tr>
<tr>
<td>PSY A650 Systems of Human Behavior I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Admission to graduate program in Psychology. Biomedical Program Director and faculty approval.</td>
<td>Crosslisted with: BIOM A650.</td>
</tr>
<tr>
<td>PSY A654 Cultural Issues in Psychotherapy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A623. Registration Restrictions: Admission to MS Clinical Psychology program.</td>
<td>PSY A623 and PSY A645, or relevant professional experience.</td>
</tr>
<tr>
<td>PSY A656 Advanced Selected Topics on Disabilities</td>
<td>1-3 CR</td>
<td>1-3 + 2-6</td>
<td>PSY A455 or PSY A642. Registration Restrictions: BAor BS degree.</td>
<td>PSY A456 with different subtitles.</td>
</tr>
<tr>
<td>PSY A660 Mental Health Issues for American Indians and Alaska Natives</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Post-Baccalaureate Degree.</td>
<td>PSY A460. Registration Restrictions: Admission to MS clinical psychology program.</td>
</tr>
<tr>
<td>PSY A665B Psychotherapy Practicum: Psychological Services Center</td>
<td>3 CR</td>
<td>2 + 15</td>
<td>(PSY A622 or concurrent enrollment) and PSY A623. Registration Restrictions: Admission to MS clinical psychology program.</td>
<td>Special Fees.</td>
</tr>
<tr>
<td>PSY A665C Psychotherapy Practicum: Community Agency</td>
<td>1-3 CR</td>
<td>2 + 4-12</td>
<td>PSY A622 and PSY A623. Registration Restrictions: Admission to MS clinical psychology program or an interdisciplinary MS degree housed in psychology.</td>
<td>Special Fees.</td>
</tr>
<tr>
<td>PSY A670 Psychotherapy Internship</td>
<td>3-6 CR</td>
<td>2 + 20-4</td>
<td>PSY A665B. Registration Restrictions: Candidacy status; admission to MS clinical psychology program; students must have passed the department comprehensive exam.</td>
<td>Special Fees.</td>
</tr>
<tr>
<td>PSY A680 Advanced Issues in Addiction Studies</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
<td>PSY A350 or HS A350 and PSY A623. Registration Restrictions: BAor BS degree.</td>
<td>PSY A680 with different subtitles.</td>
</tr>
</tbody>
</table>

Special Note: A minimum of two successfully completed semesters (grade of B or better) is required for graduation. Placement at approved settings will be assigned according to the student’s specialization and availability of sites.

Offered Fall and Spring Semesters.

Supervised psychotherapy with clients in a variety of settings throughout the community.

Covered 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 A361 or PSY A381] and PSY A623.
Registration Restrictions: BA or BS degree. PSY A350 or HS A350, or relevant professional experience.
Stacked with: PSY A482.
Special Note: Cannot be applied toward the MS degree in Clinical Psychology if PSY A482 was previously taken for credit.
Offered Alternate Fall Semesters.
Emphasis is on conceptualizing substance abuse as a continuum from intervention to after-care. Skills developed in counseling techniques are built upon and applied to various substance abuse care studies. In-depth applications to clinical interventions are emphasized and differentiated for various treatment settings. Covers all material introduced in PSY A482 and goes beyond it by requiring practical applications of the knowledge, case conceptualizations based on placement along the substance continuum, and class presentations on student’s own area of clinical specialization.

PSY A685 Quantitative Methods in Psychology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing and an undergraduate statistics course.
Offered Fall Semesters.
Principles of quantitative methods for data analysis in psychology. Topics include basic (e.g., correlation, reliability, power analysis, t-test) and advanced (e.g., logistic regression, factor analysis) methods of data analysis that are commonly found in psychological research. This course is designed to enhance rather than substitute for knowledge of quantitative methods gained at the undergraduate level. Both theoretical underpinnings and applied underpinnings are stressed so that students can select appropriate quantitative methods, implement the data analysis, and report results according to American Psychological Association Standards.

PSY A685L Quantitative Methods in Psychology Lab 1 CR
Contact Hours: 0 + 3
Prerequisites: (PSY A685 or concurrent enrollment).
Registration Restrictions: Graduate standing and an undergraduate statistics course.
Special Fees.
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, test 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 the psychology student an opportunity to learn basic principles of counseling and psychotherapy. Designed for students seeking advanced training in special areas of clinical psychology.

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. Required for students completing the Research Track in the Clinical Psychology MS program.

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 A698A Thesis: Research 1-6 CR
Registration Restrictions: Candidacy status and permission of thesis chair.
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 A698B Thesis: Public Service 1-3 CR
Registration Restrictions: Candidacy status and permission of thesis chair.
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 A698C Thesis: Creative Component 1-3 CR
Registration Restrictions: Candidacy status and permission of the thesis chair.
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.

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### 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 A109 Principles of Thermodynamics 3 CR
Contact Hours: 3 + 0
Corequisite: RH A103.
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: MAT 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 A122.
Offered only at Matanuska-Susitna College.
Provides an understanding of commercial refrigeration systems including hot gas defrosting, lubrication, contaminants, pipe sizing, etc. Introduces ammonia refrigeration including safety start-up and diagnosis of an operational ammonia liquid overfeed system.

### RH A203 HVAC/R Basic Controls 3 CR
Contact Hours: 2 + 2
Prerequisites: RH A126.
Offered only at Matanuska-Susitna College only.
Introduces concepts and components of basic residential and commercial heating and cooling control applications. Associated lab exercises are designed to provide an understanding of the operation, troubleshooting, and repair of basic system components. Explores primary burner controls for forced air and hydronic control systems.

### RH A209 Codes for HVAC/R 2 CR
Contact Hours: 2 + 0
Offered only at Matanuska-Susitna College only.
Introduces current mechanical codes as adopted by the State of Alaska and covers sections of the Uniform Mechanical Code and the National Fuel Gas Code related to general heating, ventilation, and air conditioning work.

### RH A211 Customer Relations and Job Etiquette 1 CR
Contact Hours: 1 + 0
Offered only at Matanuska-Susitna College only.
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: 2 + 4
Prerequisites: RH A105 and RH A126.
Offered only at Matanuska-Susitna College only.
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: 2 + 4
Prerequisites: RH A105.
Offered only at Matanuska-Susitna College only.
Explores 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: 2 + 4
Prerequisites: RH A225.
Offered only at Matanuska-Susitna College only.
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 only.
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 (HVAC/R) such as computer modeling, economic analysis, performance optimization, combustion efficiency analysis, etc.

### RH A232 HVAC/R Sheet Metal 3 CR
Contact Hours: 2 + 2
Offered only at Matanuska-Susitna College only.
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.
RUSSIAN - 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
Prerequisites: RUSS A100A.
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.
Offered only at extended colleges.
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 Intermediate Russian I 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement.
Offered only at extended colleges.
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 A102 Elementary Russian II 4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A101.
Course Attributes: GER Humanities Requirement.
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 Intermediate 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 A205.
Special Fees.
Special Note: May be repeated once for credit.
A maintenance and skills enhancement course at the elementary level, designed primarily to help students of Russian to retain what they have learned. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

RUSS A201 Intermediate Russian I 4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A102.
Course Attributes: 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 A201E Intermediate Russian II 3 CR
Contact Hours: 3 + 0
Prerequisites: RUSS A102E.
Course Attributes: GER Humanities Requirement.
Offered only at extended colleges.
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 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 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.
### Course Descriptions

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RUSS A390</td>
<td>Selected Topics in Advanced Russian</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>SOC A101</td>
<td>Introduction to Sociology</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>RUSS A202</td>
<td>Special Fees</td>
<td>Conducted in Russian. May be repeated for credit with a change of subtitle. Topics will vary.</td>
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<tr>
<td>RUSS A490A</td>
<td>Selected Topics in Russian Culture</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
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<td>RUSS A302</td>
<td>Special Fees</td>
<td>Conducted in Russian. Can 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.</td>
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<tr>
<td>SOC A142</td>
<td>Sociology of Sexuality</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>SOC A101</td>
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<td>SOC A222</td>
<td>Small and Rural Communities</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
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<td>SOC A242</td>
<td>An Introduction to Marriage, Family and Intimate Relationships</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
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<td>SOC A246</td>
<td>Adolescence</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
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<td>Demography</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: SOC A101. Offered Fall Semesters. Analyses contemporary issues from a variety of social science perspectives.</td>
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<td>SOC A309</td>
<td>Urban Sociology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
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<td>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.</td>
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<td>SOC A342</td>
<td>Sexual, Marital and Family Lifestyles</td>
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<td>3 + 0</td>
<td>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.</td>
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<td>Sociology of Deviant Behavior</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
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### 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

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<td>Sociology of Work</td>
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Prequisites: SOC A101.
Offered Spring Semesters.

- The study of work life and changes in types of work over time in industrial societies. Emphasis is on understanding the interactions among work and such things as communities, families and the self.

| 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.

- 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 Alternate 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 and/or perpetuate violence among intimates. In addition, the course focuses on current prevention and treatment programs aimed at reducing this type of violence.

| SOC A453    | Application of Statistics to the Social Sciences | 4 CR |
| Contact Hours: 3 + 2
Registration Restrictions: AS A252 for BAsociology 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.
SPANISH - SPAN

http://cwoolf.uaa.alaska.edu/~aylang/

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 preterit 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 preterit 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.

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 A202E  Intermediate Spanish II  3 CR
Contact Hours:  3 + 0
Prerequisites: SPAN A201E.
Course Attributes: GER Humanities Requirement.
Offered only at extended colleges.

Continuation of SPAN 201E. Includes review of grammar and study of new vocabulary and expressions. Emphasizes reading and writing of short compositions or essays. Articles from magazines and newspapers on issues of current interest will be analyzed and discussed to expand ability of students to read, write and speak fluently.

SPAN A301  Advanced Spanish I: Composition  4 CR
Contact Hours:  4 + 0
Prerequisites: SPAN A202.
Special Fees.
Special Note: Spanish speaking students can gain entrance to the course with the instructor’s signature.

Studies a wide variety of Spanish model sentences taken from expository writing and excerpts from the works of thinkers known for their insight and mastery of style. Based on this information, students begin writing short, simple compositions and advance into more complex ways of expressing their opinions. The study of synonyms, antonyms, and other vocabulary building techniques, to expand the students’ expressive capacity, is put into practice in regular verbal and written exercises. Conducted in Spanish.
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<td>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.</td>
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<tr>
<td>SPAN A310</td>
<td>Spanish Readings and Conversations</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Registration Restrictions: Two years of college Spanish or equivalent.</td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated for credit.</td>
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<td>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.</td>
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<tr>
<td>SPAN A410</td>
<td>Structural Spanish Grammar</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: SPAN A302.</td>
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<td>Special Note: Conducted in Spanish.</td>
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<td>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.</td>
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<tr>
<td>SPAN A432</td>
<td>Studies in Literature and Culture (Selected Topics)</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: SPAN A302.</td>
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<td>Special Note: Conducted in Spanish.</td>
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<td>Intensive study of authors, literary movements, periods, and/or genres. Students will also analyze cultural material other than texts. Introduces students to Hispanic literature or various periods and genres in its historical and cultural context.</td>
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<tr>
<td>SPAN A470</td>
<td>Spanish Linguistics-History of the Language</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: SPAN A302.</td>
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<td>Special Note: Conducted in Spanish.</td>
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<td>Survey of the history of Spanish from the fall of the Roman Empire to the present. The student will learn the history of some of the most important linguistic changes in Spanish from a synchronic and a diachronic perspective. Special attention will be paid to the linguistic changes (both vocalic, consonantonal, and structural) that most affected the transformation of Late Latin an turned it into what can be known as Castilian in the Middle Ages from its inception in the IX century in a small, isolated area of the Iberian Peninsula. Through readings of contemporary discussions of the interaction between power and language in a cultural setting, the course will analyze the social, political, and historical forces that go into the creation of a national language.</td>
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<tr>
<td>SPAN A490</td>
<td>Selected Topics in Hispanic Culture and Civilization</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: SPAN A302.</td>
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<td>Special Fees.</td>
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<td>Special Note: Conducted in Spanish.</td>
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<td>May be repeated twice for credit with a different subtitle. Surveys Spain’s or Latin America’s history and culture. Literature, painting, folklore, dance, film, and other artistic traditions are studied from a social, political, and economic perspective. Readings and lectures emphasize the multicultural patterns and the rich artistic traditions of the various peoples composing the Spanish and the Latin American worlds from ancient to modern times. Concentrates on either Spain and its culture and civilization, or Latin America and its cultures and civilizations, or in any one particular period thereof.</td>
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**SOCIAL WORK - SWK**

- [http://www.uaa.alaska.edu/sooc/work/](http://www.uaa.alaska.edu/sooc/work/)
- Offered through the College of Health, Education & Social Welfare
- Gordon Hartlieb Building 786-6900

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SWK A106</td>
<td>Introduction to Social Welfare</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: SOC A101.</td>
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<td></td>
<td>Crosslisted with: HUMS A106.</td>
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<td></td>
<td>Course Attributes: GER Social Sciences Requirement.</td>
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<td>Offered Fall and Spring Semesters.</td>
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<td>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.</td>
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<tr>
<td>SWK A121</td>
<td>Advocating for Victims of Domestic Violence and Sexual Assault</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Crosslisted with: HUMS A121.</td>
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<td></td>
<td>Offered only at Matanuska-Susitna College.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>SWK A122</td>
<td>Introduction to Hospice: Volunteer Training</td>
<td>2 CR</td>
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<td>Contact Hours: 2 + 0</td>
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<td>Registration Restrictions: Hospital homecare program staff or volunteer.</td>
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<td>Grade Mode: Pass/No Pass.</td>
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<td></td>
<td>Offered only at Matanuska-Susitna College.</td>
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<td>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.</td>
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<td>SWK A243</td>
<td>Cultural Diversity and Community Services</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Course Attributes: GER Social Sciences Requirement.</td>
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<td>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.</td>
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<td>SWK A306</td>
<td>Introduction to Social Work</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: [SWK A106 or HUMS A106] and HIST A101 and HIST A102.</td>
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<td>Introduces the profession of social work and its place in the social welfare industry. 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.</td>
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<td>SWK A324</td>
<td>Social Work Research with Statistical Application</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>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.</td>
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<td>SWK A342</td>
<td>Human Behavior in the Social Environment</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: PSY A150.</td>
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<td>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.</td>
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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: JUSTA110 or PARL A101.  
Croslisted with: JUSTA380.  
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.  
Croslisted 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  
Survey of public and private child welfare services from a historical perspective and examination of current child welfare services available to children and their families. National standards for services are reviewed along with policy development, legislation, funding and research related to programs, and service delivery. Services such as in-home support, permanency planning, child protection, foster care, adoption and residential care will be addressed.

SWK 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 society. Analysis of identification, understanding, and skill development for 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 A444  Health Care and Social Work Services  3 CR  
Contact Hours: 3 + 0  
Exploration of the health needs and requests of client systems in relation to social work practice, health care policies, systems of service delivery and ethnic/cultural diversity. The impact of health, illness and disease on client systems will be addressed along with the interrelationship of mind and body on behavior, growth, achievement and change.

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 exposition 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: 0 + 18  
Prerequisites: SWK A360.  
Registration Restrictions: Admission to BSW program.  
Corequisite: SWK A461A.  
Grade Mode: Pass/No Pass.  
Special Fees.  
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. Taken concurrently with SWK A461A; the student completes 16 hours a week in an approved agency under the supervision of a field instructor appointed by the university and participates in a weekly field work seminar.

SWK A462A  Social Work Practice II  3 CR  
Contact Hours: 3 + 0  
Prerequisites: SWK A461Aand 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 462Awill 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 a strengths perspectives when addressing social problems in a diverse society.

SWK A462B  Social Work Practicum II  6 CR  
Contact Hours: 0 + 18  
Prerequisites: SWK A461Aand SWK A461B.  
Corequisite: SWK A462A.  
Grade Mode: Pass/No Pass.  
Special Fees.  
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. Taken concurrently with SWK A462A; the student spends 16 hours a week in an approved agency under the supervision of a field instructor appointed by the university and participates in a weekly field work seminar.

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.
Contemporary social welfare policy and the influence of interacting political, economic, and social factors on it’s development and change. Current federal, state, and local social policies are analyzed for their impact on diverse groups in society, with emphasis on influencing and changing policy in ways that maximize social justice and improve access to needed social resources.

SWK A608 Social Policy for Advanced Generalist Practice 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program or advanced standing.
Special Fees.
Advanced generalist policy course for social workers. Prepares practitioners for developing policies and programs in a political economy. Examines contemporary social needs in a diverse and inequitable society. Emphasizes roles of research and evaluation in a policy process.

SWK A624 Social Work Research 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the MSW program and full-time student status.
Special Fees.
Research design for graduate students beginning research activities related to professional practice. Development of research questions, selection of theoretical frameworks of reference, creation of research design, literature search, sampling, data collection, analysis and organization of findings are addressed. Research strategies for various system sizes, from single subject design to program evaluation, are addressed. Students engage in a practice related research project and develop skills for utilization of existing research findings.

SWK A625 Social Work Research Lab 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Admission to the MSW program, full-time student status, and successful completion of year one of the MSW program or advanced standing.
Special Fees.
Develop skills using the professional standards and new technologies available in social work practice. Emphasis is on developing technical writing skills and accessing the Internet as a professional tool.

SWK A628 Program Evaluation 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing, Health Sciences, or related discipline. Prior research courses or research experience desirable. Crosslisted with: HS A628.
Special Fees.
Provide knowledge of purpose, design, and implementation of social services program evaluation process. Develop ability to conceptualize, and to carry out an actual program evaluation relative to the student’s practicum placement. Covers both formative and summative evaluation processes. Includes necessity for evaluation and issues of cultural competence of evaluators.

SWK A630 Practice Skills Lab 1 CR
Contact Hours: 0 + 3
Registration Restrictions: Admission to the MSW program and full-time student status.
Grade Mode: Pass/No Pass.
Special Fees.
Knowledge and understanding of basic interpersonal skills needed for generalist social work practice. Experience in applying the skills to individual, family, and group settings. Attention to inter-ethnic communication skills and nontraditional settings.

SWK A631A Social Work Practice I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission and full-time enrollment to the MSW program.
Special Fees.
Knowledge base for generalist social work practice with emphasis on values, skills, and problem-solving for application to client systems in need of professional intervention. Assessment and planning for social work practice with individuals, families, groups, communities, and organizations are covered.

SWK A631B Generalist Practicum I 3 CR
Contact Hours: 0 + 18
Registration Restrictions: Admission to the MSW program and full-time student status.
Special Fees.
Social work practicum to apply concepts, knowledge, skills, and values to client-centered problem solving in generalist social work practice. Emphasis is on application of generalist skills in the areas of interviewing, assessment, and planning. The student completes a total of 240 practicum hours per semester in an approved agency under the supervision of a field instructor appointed by the University and attends a weekly field work seminar.

SWK A632A Social Work Practice II 3 CR
Contact Hours: 3 + 0
Prerequisites: SWK A631A.
Registration Restrictions: Admission to the MSW program and full-time student status.
Special Fees.
Knowledge base for generalist social work practice with emphasis on problem-solving applications to client systems in need of professional intervention. Building on assessment and planning processes covered in SWK A631A, intervention application, evaluation, termination, and follow-up. Generalist social work practice with individuals, families, groups, organizations, and communities are covered.

SWK A632B Generalist Practicum II 3 CR
Contact Hours: 0 + 18
Registration Restrictions: Admission to the MSW program and full-time student status.
Special Fees.
Social work practicum in which concepts, knowledge, skills, and values are applied to client-centered problem solving in generalist social work. Emphasis is on application of generalist practice skills in the areas of designing, planning, implementing, evaluating, and terminating change efforts with various client systems. The student completes 240 practicum hours per semester in an approved agency under the supervision of a field instructor appointed by the University and attends a weekly field work seminar.

SWK A633A Social Work Practice III: Direct Practice 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing.
Special Fees.
Part of 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 multidimensional individual, family and group work. Special attention given to the bio-psycho-social development of dysfunction.

SWK A633B Advanced Generalist Practicum III 3 CR
Contact Hours: 0 + 18
Registration Restrictions: Admission to MSW program, full-time student standing, and advancement to candidacy for the MSW degree.
Special Fees.
Supervised direct and indirect practice experience under a qualified MSW social work practitioner. The student is expected to perform as an advanced generalist social worker within the agency setting. Emphasis is on application of knowledge, values and ethics, skills, and special issues covered in the MSW curriculum. The student completes 240 practicum hours per semester of work within the agency, following agency policy and procedure.
SWK A634A Social Work Practice IV: Indirect Practice 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing.

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.

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.

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.

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.

SWK A643 Human Diversity in Social Work Practice 3 CR
Contact Hours: 3 + 0
Prerequisites: SWK A642.
Registration Restrictions: Admission to the MSW program and full-time student status.

SWK A651 Mental Health Practice Issues 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.

SWK A653 Professional Issues for Social Workers 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

SWK A654 Supervisory Management in Social Work 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

SWK A655 Social Work Approaches with the Dually Diagnosed 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to Graduate Studies and the MSW Degree Program.

SWK A656 Treatment of Families 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to Graduate Studies and the MSW Degree Program.

SWK A657 Fetal Alcohol Syndrome and Fetal Alcohol Effects 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

SWK A659 Leadership and Decision-Making in Human Resources 3 CR
Contact Hours: 3 + 0
Prerequisites: SWK A642, SWK A643.
Registration Restrictions: Admission to the MSW program and full-time student status.

Course Descriptions

Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing.

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 given to the challenges encountered when working in larger systems.

Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing.

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.

Registration Restrictions: Admission to the MSW program, full-time student standing, and advancement to candidacy for the MSW degree.

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.

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.

Examination of human diversity in relation to ethnicity, race, gender, sexual orientation, age, religion, class, and opportunity. Historical and contemporary influence on group membership and affiliation are addressed along with required values, knowledge and skills for effective generalist social work practice with diverse populations and clients.

SWK A651 Mental Health Practice Issues 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.

Preparation to work in a variety of mental health settings, including in-patient, community mental health centers, clinics, family services, specialized service settings for developmentally disabled persons, and alcohol treatment centers.

Demonstrates brief treatment and case management models. Addresses strengths of families and individuals.

SWK A653 Professional Issues for Social Workers 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

Ethical, legal, and professional issues for advanced generalist practice. Covers issues of professional socialization, roles of professional organizations, licensure, legal responsibility, liabilities of practice, family law, confidentiality, professional codes of ethics, and interprofessional cooperation. Emphasis is given to practice issues related to race, gender, religion, and sexual preferences.

SWK A654 Supervisory Management in Social Work 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

Prepares graduate students and practitioners for social work supervisory management roles. The course provides a theoretical framework for supervisory management methods and processes and will address essential knowledge, values, and skills in these professional functions. Issues of gender and race as it relates to supervisory management will also be explored.

SWK A655 Social Work Approaches with the Dually Diagnosed 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

Provides research findings on persons who are mentally ill substance abusers. Presents 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.

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.

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 Resources 3 CR
Contact Hours: 3 + 0

Focuses on knowledge and skills related to leadership and decision-making for potential leaders of human service organizations. Emphasizes included leadership theory and analysis of leadership styles and decision-making theory and techniques. Issues of gender and race as they relate to leadership and decision-making will also be explored.

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### TECHNOLOGY - TECH

**Offered through the Community & Technical College**

**Beatrice McDonald Building (BMB), Room 106, 786-6445**

**TECH A101 Introduction to Technological Principles**  3 CR  
Contact Hours: 1 + 2  
Prerequisites: (MATH A107 or concurrent enrollment).  
Introduces basic physical properties commonly found in a technical field.  Emphasizes data collection and test equipment procedures.  

**TECH A203 Introduction to Manufacturing Technologies**  2 CR  
Contact Hours: 1 + 2  
Prerequisites: TECH A101 and MATH A107.  
Applies concepts and principles commonly associated with control and processing systems found in most technical fields.  Explores traditional and evolving fields of technological systems as they apply to manufacturing and construction.  

**TECH A210 Introduction to Space Systems Technologies**  2 CR  
Contact Hours: 2 + 0  
Prerequisites: TECH A101 and MATH A107.  
Introduces aspects of space missions and applied space technology.  Introduces design, manufacture, and testing of space hardware for the space environment.  Emphasizes concepts in flight dynamics, atmospheric drag, entry effects, and hardening of space systems.  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH A101</td>
<td>Introduction to Technological Principles</td>
<td>3 CR</td>
<td>1 + 2</td>
<td>(MATH A107 or concurrent enrollment)</td>
</tr>
<tr>
<td>TECH A203</td>
<td>Introduction to Manufacturing Technologies</td>
<td>2 CR</td>
<td>1 + 2</td>
<td>TECH A101 and MATH A107</td>
</tr>
<tr>
<td>TECH A210</td>
<td>Introduction to Space Systems Technologies</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>TECH A101 and MATH A107</td>
</tr>
</tbody>
</table>

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### COURSE DESCRIPTIONS

**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 - UAAlvel.  
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 A681**  
**Case Management in Social Work**  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Identification and analysis of case management from a practitioner, supervisory, and administrative frame of reference.  Methods of developing and monitoring a case management system in various fields of practice with attention to measurement, documentation, effectiveness, and compatibility with agency functions and specified outcomes.  

**SWK A690**  
**Selected Topics in Social Work**  1-3 CR  
Contact Hours: 0 + 0  
Special Fees:  
Special Note: May be repeated for credit with a different subtitle.  
Focusses 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 MSWdegree.  Grade Mode: Pass/No Pass.  
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 A211**  
**Space Vehicle Boosters, Satellites and Launch Facilities**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: TECH A210.  
Surveys space vehicle boosters and satellite systems, subsystems, and components.  Studies solid and liquid rockets commonly used to launch satellites including predelivery and predelivery activities, checkout, countdown, and launch.  

**TECH A212**  
**Propulsion Systems**  2 CR  
Contact Hours: 2 + 0  
Prerequisites: TECH A210.  
Focuses on rocket systems and their subsystems and how these subsystems interface, and are monitored and isolated for faults.  

**TECH A213**  
**Quality Assurance and Launch Facility Management**  2 CR  
Contact Hours: 2 + 0  
Prerequisites: TECH A210.  
Explores the management roles common to an aerospace launch facility with an emphasis on quality control.  Examines management principles effective in maintaining quality operations, safe working environments, progressive training programs, and reliable production practices.  

**TECH A262**  
**Seafood Harvesting**  3 CR  
Contact Hours: 3 + 0  
Examines differing methodologies of commercial fish harvesting and processing for human consumption.  

**TECH A263**  
**Seafood Processing**  3 CR  
Contact Hours: 3 + 0  
Examines seafood processing with direct application to the processing of fish for human consumption.  

**TECH A264**  
**Seafood Quality and Safety**  3 CR  
Contact Hours: 2 + 2  
Examines microbiology with direct application to seafood science in relation to product quality and safety.  

**TECH A295**  
**Technical Internship**  1-6 CR  
Contact Hours: 0 + 3-18  
Registration Restrictions: Instructor permission required.  
Grade Mode: Pass/No Pass.  
Provides work experience, familiarization with technical operations and equipment and insight to management practices closely related with technology-rich career fields.  Work for the internship is supervised by industry and faculty members.  

**TECH A310**  
**NDE for Managers and Technicians**  3 CR  
Contact Hours: 3 + 0  
Prerequisites: MATH A107.  Registration Restrictions: Junior standing.  Provides an understanding of the various methods of nondestructive examination and the scientific principles upon which they are based and how they interact with various technical concerns.  Broadens the education of junior/senior students in all technical and professional disciplines relevant to testing objects in a manner that does not affect future usefulness.  

**TECH A320**  
**Construction Systems**  2 CR  
Contact Hours: 2 + 0  
Prerequisites: ENGL A111.  
Investigates and expands knowledge about construction systems, history, future, and career opportunities.  The impact of construction on society is investigated and compared with other systems of technology.  

**TECH A325**  
**Transportation Systems**  2 CR  
Contact Hours: 2 + 0  
Prerequisites: ENGL A111.  
Investigates and expands knowledge about transportation systems, industries, history, future, and career opportunities.  The impact of transportation on society is investigated and compared with other systems of technology.  

**TECH A330**  
**Manufacturing Systems**  2 CR  
Contact Hours: 2 + 0  
Prerequisites: ENGL A111.  
Investigates and expands knowledge about manufacturing systems, history, future, and career opportunities.  The impact of manufacturing on society is investigated and compared with other systems of technology.  

**TECH A335**  
**Communication Systems**  2 CR  
Contact Hours: 2 + 0  
Prerequisites: ENGL A111.  
Investigates and expands knowledge about communication systems, industries, history, future, and career opportunities.  The impact of communication on society is investigated and compared with other systems of technology.  

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University of Alaska Anchorage 2001-2002 Course Catalog  
http://www.uaa.alaska.edu
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 SeniorProject 3 CR
Contact Hours: 1 + 8
Registration Restrictions: Senior standing and department permission required.
Selection and completion of a project under faculty supervision. Projects are typical of problems which graduates must solve in their career field. Project results are presented in a formal report. Minimum 135 hours total time.

TECH A433 Project Design, Implementation, and Control 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A109 or MATH A107.
Covers principles and practices of project planning, implementation and control. Focus is on the tools and techniques of project planning. Implementation and control applicable to managers and technicians.

TECH A443 Total Quality Leadership 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A109 or MATH A107.
Covers principles and practice of total quality leadership and continuous improvement. Focuses on the tools and techniques of total quality leadership, continuous improvement applicable to technicians and managers.

TECH A450 Applications for Computer-Aided Drafting 4 CR
Contact Hours: 2 + 4
Prerequisites: ENGL A212. Special Fees.
Special Note: Students must have sufficient background, either through education or work experience, to be able to evaluate and analyze the applications for their technical area or interests.
Evaluates applications of Computer-Aided Drafting (CAD) in industry. Emphasizes production and evaluation of computer generated drawings and analysis of software and hardware. Specifically designed for technology students, teachers of CAD, and individuals evaluating the need for CAD in industry.

TECH A495 Technical Internship 3 CR
Contact Hours: 1 + 11
Registration Restrictions: Formal admission into the BST/VTE Program.
Crosslisted with: VE A495.
Special Fees.
Special Note: May be repeated twice for credit.
Provides work experience as well as a familiarization with supervisory and management practices used by various individuals in business operations, e.g. General manager, production manager, director of quality control, floor supervisor, etc. Requires at least 160 hours work experience and 30 hours of instructor contact time.

THEATRE - THR
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, relaxation, 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.

THR A151 Make-Up for the Theatre 3 CR
Contact Hours: 3 + 0
Special Fees.
Basic principles of make-up for actors, teachers, directors and other theatrical workers. Emphasizes make-up as it is affected by the structure of the face, make-up techniques and materials, theatrical lighting, character interpretation and illusory and plastic relief. Covers historical make-up and hair styles in classical plays.

THR A195 Theatre Practicum: Performance 1-3 CR
Contact Hours: 0 + 3-9
Registration Restrictions: Faculty permission and audition.
Stacked with: THR A395.
Participation in mainstage production as an actor, director, or assistant director.

THR A221 Acting II: Movement for the Actor 3 CR
Contact Hours: 2 + 3
Prerequisites: THR A111 and THR A121.
Intermediate study of acting with emphasis on expression through movement. Analyzes and developmental physical skills.

THR A243 Scene Design 3 CR
Contact Hours: 3 + 0
Fundamental principles of design for the stage, including drafting, rendering, theory, analysis, and practice.

THR A257 Costume Design and Construction I 3 CR
Contact Hours: 2 + 2
Prerequisites: THR A131.
Corequisite: THR A257L.
Basic principles of costume design with emphasis on research and rendering techniques. Overall study of costume and fashion history and its relation to theatre productions and designs.

THR A295 Theatre Practicum: Technical 1-3 CR
Contact Hours: 0 + 3-9
Registration Restrictions: Faculty permission.
Stacked with: THR A495.
Participation in mainstage productions as member of technical staff. Credit for scene crew, light crew, props, costume crew, make-up crew, stage management, and publicity.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR A311</td>
<td>Representative Plays I</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<td></td>
</tr>
<tr>
<td>Prerequisites: ENGL A111.</td>
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<tr>
<td>Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.</td>
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</tr>
<tr>
<td>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>
<tr>
<td>THR A312</td>
<td>Representative Plays II</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<td></td>
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<tr>
<td>Prerequisites: ENGL A111.</td>
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<tr>
<td>Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.</td>
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</tr>
<tr>
<td>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>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>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>
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<tr>
<td>Contact Hours: 2 + 3</td>
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<tr>
<td>Prerequisites: THR A121.</td>
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<tr>
<td>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>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: THR A121.</td>
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<tr>
<td>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>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: THR A324.</td>
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<tr>
<td>Continuation of THR 324 with focus on the articulatory components of speech. Through the manipulation of these elements, and in combination with tempo/rhythm, facial posture, resonance focus, lift 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>
<tr>
<td>THR A328</td>
<td>Acting Shakespeare</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 2 + 3</td>
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<tr>
<td>Prerequisites: THR A121.</td>
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<tr>
<td>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>
</tr>
<tr>
<td>Contact Hours: 2 + 3</td>
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<td></td>
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<tr>
<td>Prerequisites: THR A121 and THR A221.</td>
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<tr>
<td>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>
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<tr>
<td>Contact Hours: 2 + 3</td>
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<td></td>
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<tr>
<td>Prerequisites: THR A329.</td>
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</tr>
<tr>
<td>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>
<tr>
<td>THR A331</td>
<td>Directing I</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td>Prerequisites: THR A221 and THR A243 and THR A257.</td>
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<tr>
<td>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>
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<tr>
<td>Contact Hours: 2 + 2</td>
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<tr>
<td>Prerequisites: THR A141.</td>
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<tr>
<td>Advanced problems and techniques of technical theatre production. Course is keyed 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>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: THR A243.</td>
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</tr>
<tr>
<td>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>
<tr>
<td>THR A347</td>
<td>Lighting Design</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td>Prerequisites: THR A243.</td>
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<tr>
<td>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>
</tr>
<tr>
<td>Contact Hours: 1 + 4</td>
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<tr>
<td>Prerequisites: THR A257.</td>
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<tr>
<td>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>
</tr>
<tr>
<td>Contact Hours: 0 + 1-3</td>
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<tr>
<td>Registration Restrictions: Faculty permission and audition.</td>
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<tr>
<td>Stacked with: THR A195.</td>
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<tr>
<td>Performance practicum for juniors and seniors: advanced participation in mainstage productions as an actor, director, or assistant director.</td>
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</tr>
<tr>
<td>THR A411</td>
<td>History of the Theatre I</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Registration Restrictions: Junior or senior standing and completion of written communication general college requirements.</td>
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<tr>
<td>Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.</td>
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<tr>
<td>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>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Registration Restrictions: Junior or senior standing and completion of written communication general college requirements.</td>
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<tr>
<td>Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.</td>
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</tr>
<tr>
<td>Continuation of THR A411. Theatre history from 1800 to modern.</td>
<td></td>
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<tr>
<td>THR A413</td>
<td>Dramatic Theory and Criticism</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study of theories and criticism of drama and theatrical art from Aristotle to the present.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THR A435</td>
<td>Directing II</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: THR A331.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced directional analysis of a dramatic work and public presentation of a play.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THR A445</td>
<td>Advanced Theatre Production</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 0 + 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration Restrictions: Junior level course in area of specialization.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced technical theatre course with emphasis as selected by student in scenery design, lighting, stagecraft, costume, or directing.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THR A480</td>
<td>Theatre Internship</td>
<td>5-15 CR</td>
</tr>
<tr>
<td>Contact Hours: 0 + 24-45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration Restrictions: Junior standing or permission of department chair.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Note: Total of internship activity applicable toward graduation is 15 credits.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced theatre production course with emphasis as selected by students in direction, acting, scenery and lighting, costume design and construction, or theatre management.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THR A490</td>
<td>Selected Topics in Performance</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 2 + 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: THR A121.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Note: May be repeated for credit with a change of subject.</td>
<td></td>
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</tr>
<tr>
<td>Current topics in theatrical performance resulting from special demands of the theatre season or special faculty expertise.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THR A491</td>
<td>Selected Topics in Technical Theatre</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 2 + 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: THR A257 or THR A243.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Fees.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Note: See schedules for specific titles being offered.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current topics in technical theatre theory and practice. Includes studio work.</td>
<td></td>
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</tr>
<tr>
<td>THR A495</td>
<td>Advanced Practicum: Technical</td>
<td>1-3 CR</td>
</tr>
<tr>
<td>Contact Hours: 0 + 1-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration Restrictions: Faculty permission.</td>
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</tr>
<tr>
<td>Stacked with: THR A295.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical practicum for juniors and seniors. Emphasis is on participation in mainstage production as a significant member of the technical/production crew or design team.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


## 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.
  - 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.
  - 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.
  - 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.
  - Competency-based, individualized format. Modules focus on advanced competencies for classroom and laboratory instruction. Topics include effective presentations, demonstrations, oral questioning, demonstrating a manipulative skill, audiovisual materials, conducting field trips and panel discussions. See module for specific description.

### VE A425 Assisting Students in Improving Basic Skills: PBTE (Topics Vary) 5-4 CR
- Contact Hours: 0 + 2
- Registration Restrictions: Permission of resource person; see module for prerequisites.
- Special Fees.
  - Competency-based, individualized format. Modules in this category are designed to improve the quality of instruction provided. Topics include establishing criteria, assessment of knowledge, skills and attitudes and instructional effectiveness. See module for specific description.

### VE A430 Instructional Evaluation: PBTE (Topics Vary) 5-3 CR
- Contact Hours: 0 + 2
- Registration Restrictions: Permission of resource person; see module for prerequisites.
- Special Fees.
  - Competency-based, individualized format. Modules in this category are designed to assist vocational educators in evaluating student performance and the quality of instruction provided. Topics include establishing criteria, assessment of knowledge, skills and attitudes and instructional effectiveness. See module for specific description.

### VE A435 Teaching Adults: PBTE (Topics Vary) 5-3 CR
- Contact Hours: 0 + 1-6
- Registration Restrictions: Permission of resource person; see module for prerequisites.
- Special Fees.
  - Competency-based, individualized format. These modules 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 A440 Instructional Management: PBTE (Topics Vary) 5-4.5 CR
- Contact Hours: 0 + 2
- Registration Restrictions: Permission of resource person; see module for prerequisites.
- Special Fees.
  - Competency-based, individualized format. These modules address the responsibilities of the vocational teacher in the management of instruction. Topics include instructional resources, budgets, student safety and managing and evaluating the instructional process and performance of adults. See module for specific descriptions.

### 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.
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Level Restriction</th>
<th>Registration Restrictions</th>
<th>Prerequisites</th>
<th>Special Fees</th>
<th>Special Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>VE A450</td>
<td>Guidance: PBTE (Topics Vary)</td>
<td>.5-3.5</td>
<td>0 + 2</td>
<td></td>
<td>Permission of resource person; see module for prerequisites.</td>
<td></td>
<td>Special Fees</td>
<td></td>
</tr>
<tr>
<td>VE A452</td>
<td>Student Teaching: Vocational Education</td>
<td>12 CR</td>
<td>3 + 36</td>
<td></td>
<td>Faculty permission. 3.0 GPA in education courses and a 2.5 GPA overall. Recommendation of VTE faculty; current medical exam and vision test.</td>
<td></td>
<td>Special Fees</td>
<td></td>
</tr>
<tr>
<td>VE A455</td>
<td>Serving Special Needs: PBTE (Topics Vary)</td>
<td>.5-8</td>
<td>0 + 2</td>
<td></td>
<td>Permission of resource person; see module for prerequisites.</td>
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<td>Special Fees</td>
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<tr>
<td>VE A460</td>
<td>School/Community Relations: PBTE (Topics Vary)</td>
<td>.5-5</td>
<td>0 + 2</td>
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<td>Permission of resource person; see module for prerequisites.</td>
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<td>Special Fees</td>
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<tr>
<td>VE A470</td>
<td>Student Vocational Organization: PBTE (Topics Vary)</td>
<td>.5-4</td>
<td>0 + 2</td>
<td></td>
<td>Permission of resource person; see module for prerequisites.</td>
<td></td>
<td>Special Fees</td>
<td></td>
</tr>
<tr>
<td>VE A480</td>
<td>Professional Role and Development: PBTE (Topics Vary)</td>
<td>.5-5</td>
<td>0 + 2</td>
<td></td>
<td>Permission of resource person; see module for prerequisites.</td>
<td></td>
<td>Special Fees</td>
<td></td>
</tr>
<tr>
<td>VE A490</td>
<td>Coordination of Cooperative Education: PBTE (Topics Vary)</td>
<td>.5-6</td>
<td>0 + 2</td>
<td></td>
<td>Permission of resource person; see module for prerequisites.</td>
<td></td>
<td>Special Fees</td>
<td></td>
</tr>
<tr>
<td>VE A495</td>
<td>Technical Internship</td>
<td>3 CR</td>
<td>1 + 11</td>
<td></td>
<td>Formal admission into the BST/VTE Program. Crosslisted with: TECH A495.</td>
<td></td>
<td>Special Fees</td>
<td></td>
</tr>
<tr>
<td>VE A601</td>
<td>Principles of Technology</td>
<td>1-3 CR</td>
<td>.5-2 + 2-3</td>
<td>Must be Graduate - UA level.</td>
<td>Stacked with: VE A301.</td>
<td></td>
<td>Special Fees</td>
<td></td>
</tr>
<tr>
<td>VE A611</td>
<td>Philosophical Foundations of Vocational Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Must be Graduate - UA level.</td>
<td>Stacked with: VE A411.</td>
<td></td>
<td>Special Note</td>
<td></td>
</tr>
<tr>
<td>VE A622</td>
<td>Organization and Administration of Vocational Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Must be Graduate - UA level.</td>
<td>Stacked with: VE A422.</td>
<td></td>
<td>Special Note</td>
<td></td>
</tr>
<tr>
<td>VE A633</td>
<td>Current Issues in Vocational Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Must be Graduate - UA level.</td>
<td>Stacked with: VE A433.</td>
<td></td>
<td>Special Note</td>
<td></td>
</tr>
<tr>
<td>VE A643</td>
<td>Methods of Instruction in Vocational Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Must be Graduate - UA level.</td>
<td>Stacked with: VE A443.</td>
<td></td>
<td>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 instruction; laboratory learning; field trips; exhibits; bulletin boards; competency-based education; etc.</td>
<td></td>
</tr>
</tbody>
</table>
VE A644  Improving Instruction in Vocational Education  3 CR  
Contact Hours: 3 + 0  
Level Restriction: Must be Graduate - UAA level.  
Special Note: Can be applied toward MS degree in Vocational education.  
Designed to give practicing teachers advanced instructional techniques. Analysis and evaluation of styles of teaching and learning. Includes conducting group discussions, brainstorming and problem solving techniques, reinforcement, individualizing instruction, competency-based instruction, and self and peer evaluation.

VE A655  Curriculum Development in Vocational Education  3 CR  
Contact Hours: 3 + 0  
Level Restriction: Must be Graduate - UAA level.  
Designed to prepare students to access and/or develop vocational curriculum.

VE A695  Advanced Professional Experiences: Discipline Area  1-6 CR  
Contact Hours: 1-6 + 0  
Level Restriction: Must be Graduate - UAA level.  
Special Fees.  
Special Note: Required course for MS degree in Vocational education.  
A research paper/project jointly approved by the student’s graduate committee and the student. The research paper/project should coincide with the student’s professional objectives. When taken in lieu of written comprehensive exam, an oral defense of project will be required.

VE A698  Individual Research  1-6 CR  
Contact Hours: 1-6 + 0  
Level Restriction: Must be Graduate - UAA level.  
Registration Restrictions: Advisor permission.

VS A100  Beginning Woodworking  2 CR  
Contact Hours: 1 + 2  
Basics of sound wood design, stock selection, hand and machine tools, cutting and shaping, fastening, surface preparation, stains, and finishes.

VS A125  Woodworking I  3 CR  
Contact Hours: 1 + 2  
Basic course designed to familiarize the student with the safe use of a variety of modern hand and power tools. Completion of the course may result in the construction of items of personal choice.

VS A126  Woodworking II  3 CR  
Contact Hours: 1 + 2  
Prerequisites: VS A125.  
Offered only at Kenai Peninsula College Kachemak Bay branch.  
Special Note: May be repeated once for degree credit.  
Continuation of VS A125 with emphasis on more advanced projects and greater individual initiative.

VS A131  Construction forthe Owner/Builder I  3 CR  
Contact Hours: 3 + 0  
Familiarizes students with standard practice construction and alternatives to that practice. Includes the terms/systems involved in construction. Concepts and systems covered are foundations, floors, walls, roof, alternative energy in structures, and alternative structures.

VS A150  Intermediate Woodworking  2 CR  
Contact Hours: 1 + 2  
Prerequisites: VS A100.  
Offered only at Kodiak College.  
Advanced use of hand and power tools including the wood lathe. Students will build a variety of assigned projects.

VS A152  Machine Woodworking  3 CR  
Contact Hours: 2 + 2  
Grade Mode: Pass/No Pass.  
Offered only at Matanuska-Susitna College.  
Special Note: Each student will design and construct a project that is approved by the instructor.  
Designed to gain skills and knowledge in the use of woodworking machinery.  
Emphasis is placed on the safe operation of power equipment. Instruction in relating to the technology of woods, cabinet and furniture construction techniques, wood finishing, purchasing materials and maintenance of tools and equipment.

WELD A101  Gas and Arc Welding  4 CR  
Contact Hours: 2 + 6  
Offered only at Kodiak College.  
Basic welding of mild steel, stainless steel and aluminum with wire processes.  
Students use all wires on the current market in class.

WELD A102  Gas Welding  2 CR  
Contact Hours: 1 + 3  
Offered only at Kenai Peninsula College.  
Covers oxyacetylene welding, brazing, silver soldering, and cast iron welding.  
Second half covers arc welding. Designed for home and shop welders.

WELD A103  Arc Welding  4 CR  
Contact Hours: 2 + 6  
Offered only at Kenai Peninsula College.  
Emphasizes welder certification on open root welding of plate. Open to beginner as well as experienced welder. Students certify on .375 inch plate, open root or with backing; to AWS or ASME code standards.

WELD A104  Arc Welding: Low-Hydrogen Electrodes  4 CR  
Contact Hours: 2 + 6  
Registration Restrictions: WELD A101 or WELD A103 or arc welding experience.  
Offered only at Kenai Peninsula College.  
Emphasis on welder certification with low-hydrogen electrodes. Students certify on .500 inch plate with backing to AWS code standards.

WELD A105  Pipe Welding  4 CR  
Contact Hours: 2 + 6  
Registration Restrictions: Current certification of plate, open root, vertically upward, or pre-test given during registration.  
Offered only at Kenai Peninsula College.  
Covers welding of pipe in all positions, open root, uphill and downhill. Pipe sizes of 4.6 inch schedule 40.

WELD A106  Pipe Certification  4 CR  
Contact Hours: 2 + 6  
Prerequisites: WELD A105.  
Offered only at Kenai Peninsula College.  
Involves welding of pipe in all positions, open root, uphill and downhill. Pipe size: 6 inch schedule 80. Students certify on 6 inch schedule 80 uphill procedure to ANSI B31.3 code standard.

WELD A108  Wire Welding  4 CR  
Contact Hours: 2 + 6  
Offered only at Kenai Peninsula College.  
Basic welding of mild steel, stainless steel and aluminum with wire processes.  
Students use all wires on the current market in class.

WELD A109  TIG Welding  4 CR  
Contact Hours: 2 + 6  
Prerequisites: WELD A101 and WELD A102.  
Offered only at Kenai Peninsula College.  
Covers welding of aluminum, zinc alloys, copper, magnesium, mild steel and stainless steel.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD A111</td>
<td>Gas Welding and Cutting</td>
<td>4</td>
<td>2 + 6</td>
<td></td>
</tr>
<tr>
<td>WELD A112</td>
<td>Shielded Metal Arc Welding (SMAW)</td>
<td>4</td>
<td>2 + 6</td>
<td>WELD A112</td>
</tr>
<tr>
<td>WELD A114</td>
<td>Welding of High Strength Steels</td>
<td>4</td>
<td>2 + 6</td>
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</tr>
<tr>
<td>WELD A115</td>
<td>Basic Shielded Metal Arc Welding</td>
<td>2</td>
<td>1 + 2</td>
<td></td>
</tr>
<tr>
<td>WELD A117</td>
<td>Basic Pipelining</td>
<td>4</td>
<td>4 + 0</td>
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</tr>
<tr>
<td>WELD A121</td>
<td>Pipe Welding Vertical-Down Techniques</td>
<td>4</td>
<td>2 + 6</td>
<td>WELD A112</td>
</tr>
<tr>
<td>WELD A122</td>
<td>Advanced Pipe Welding</td>
<td>4</td>
<td>2 + 6</td>
<td>WELD A121</td>
</tr>
<tr>
<td>WELD A157</td>
<td>Technical Blueprints for Welders</td>
<td>3</td>
<td>3 + 0</td>
<td></td>
</tr>
<tr>
<td>WELD A161</td>
<td>Gas Metal Arc Welding (GMAW)</td>
<td>4</td>
<td>2 + 6</td>
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<tr>
<td>WELD A162</td>
<td>Flux Cored Welding (FCAW)</td>
<td>4</td>
<td>2 + 6</td>
<td>WELD A112 or WELD A161</td>
</tr>
<tr>
<td>WELD A174</td>
<td>Basic TIG Welding</td>
<td>4</td>
<td>2 + 6</td>
<td>WELD A111</td>
</tr>
<tr>
<td>WELD A175</td>
<td>Welding Processes and Equipment</td>
<td>4</td>
<td>4 + 0</td>
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<tr>
<td>WELD A177</td>
<td>Industrial Welding Qualification</td>
<td>2</td>
<td>1 + 3</td>
<td></td>
</tr>
<tr>
<td>WELD A181</td>
<td>Welding Inspection and Code Review</td>
<td>4</td>
<td>4 + 0</td>
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<tr>
<td>WELD A261</td>
<td>Ultrasonic Testing</td>
<td>4</td>
<td>2 + 4</td>
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</tr>
<tr>
<td>WELD A262</td>
<td>General Nondestructive Testing</td>
<td>3</td>
<td>2 + 2</td>
<td></td>
</tr>
<tr>
<td>WELD A263</td>
<td>X-Ray and Radioisotopes, Radiography</td>
<td>4</td>
<td>2 + 3</td>
<td>WELD A112</td>
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<tr>
<td>WELD A273</td>
<td>Gas Metal Arc Welding (Aluminum)</td>
<td>3</td>
<td>1 + 4</td>
<td>WELD A161</td>
</tr>
<tr>
<td>WELD A281</td>
<td>Welding Inspection and Code Review</td>
<td>4</td>
<td>4 + 0</td>
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<tr>
<td>WELD A287</td>
<td>Welding Metallurgy Applications</td>
<td>5</td>
<td>3 + 4</td>
<td></td>
</tr>
</tbody>
</table>

WELD A161: 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, welding defects (their causes and corrections), welding variables, and welding practices to ASME code.

WELD A162: Design 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 A263: 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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.</td>
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<tr>
<td>WELD A410</td>
<td>Advanced Nondestructive Testing</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>WELD A261 and WELD A262 and MATH A105. Special Fees.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
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</tbody>
</table>

**Women Studies - WS**

http://www.uaa.alaska.edu/womens/

Offered through the College of Arts and Sciences

Classroom Building K (K), Room 204, (907) 786-4388

WS A200 Introduction to Women's Studies 3 CR

Contact Hours: 3 + 0

Course Attributes: GER Humanities 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.

An 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

Diplomacy Building (DPL), Room 501, (907) 786-6729

WWTA100 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.

WWTA103 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 WWTA100.

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.

WWTA107 Wastewater Science and Math 1 CR

Contact Hours: 1 + 0

Covers typical wastewater plant unit processes, typical operator duties, 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.
CHAPTER 12

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Faculty and Administration
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