CATALOG 1998-1999

University of Alaska
Anchorage

3211 Providence Drive
Anchorage, Alaska 99508-8046

Associate Vice Chancellor for Student Affairs:	Linda Berg-Smith
Curriculum Manager:	Bec Smith
Desktop Publishing/Design:	Jason Brune
	Brad Bodde
Photography/Cover Design:	Michael Dinneen
Proof Reading:	Dr. Hilary Davies
	Dr. Roberta Morgan
	John Mun
	Jean Stanley

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

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It is the policy of the University of Alaska to provide equal education and employment opportunities and to provide service and benefits to all students and employees without regard to race, color, religion, national origin, 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 Dr.
Anchorage, AK 99508
Campus Directory: (907) 786-1800

Academic Affairs **(907) 786-1921**
Administration Building, Room 214

Accounting Services **(907) 786-1458**
Administration Building Lobby

Administrative Services **(907) 786-4620**
Administration Building, Room 279

Admissions **(907) 786-1480**
Administration Building Lobby

Advising and Counseling Center **(907) 786-4500 (V/TTY)**
Business Education Building, Room 115

AHAINA Student Programs **(907) 786-4070**
Business Education Building, Room 106

Campus Center Information Desk **(907) 786-1204 (V/TTY)**
Campus Center, Room 233

Career Services Center **(907) 786-4513**
Business Education Building, Room 122

Chancellor's Office **(907) 786-1437**
Administration Building, Room 216

Consortium Library **(907) 786-1871**
College of Arts and Science Building

Community Education and Training Programs **(907) 786-6750**
Diplomacy Building, Suite 501

Dean of Students' Office **(907) 786-1214**
Campus Center, Room 233

Disability Support Services **(907) 786-4530**
(907) 786-4536 (V/TTY)
Business Education Building, Room 105

Educational Opportunity Center **(907) 274-5522**
500 "L" Street, Suite 501

Enrollment Services **(907) 786-1480**
Administration Building Lobby

Facilities Scheduling **(907) 786-1209**
Administration, Room 261

Financial Aid **(907) 786-1586**
Administration Building Lobby

Conference and Catering **(907) 786-4830**
Community and Technical College

National Student Exchange Program **(907) 786-1558**
Administration Building Lobby

Native Student Services **(907) 786-4000**
Business Education Building, Room 108

Psychological Services Center **(907) 786-1795**
CAS Building, Room 264

Registration **(907) 786-1480**
Administration Building Lobby

Residence Life **(907) 786-4838**
University Lake Building

Student Health Center **(907) 786-4040**
Business Education Building, Room 120

Student Union Programs and Services Office **(907) 786-1215**
Campus Center, Room 218

Study Abroad Programs **(907) 786-1558**
Administration Building, Room 158

University Police Department **(907) 786-1120**
Eugene Short Building, Room 114

Veterans Affairs **(907) 786-1528**
Administration Building, Room 154

SOURCES OF INFORMATION

Schools and Colleges
Extended Colleges and Sites
Military Education Services
Affiliate College

SCHOOLS AND COLLEGES

College of Arts and Sciences **(907) 786-1707**
College of Arts and Sciences Building, Room 335

Community and Technical College **(907) 786-6400**
Allied Health Science Building, Room 170

College of Business and Public Policy **(907) 786-4100**
Business Education Building, Room 301

College of Health, Education, and Social Welfare **(907) 786-4406**
Classroom Building K, Room 216

School of Engineering **(907) 786-1900**
Engineering Building, Room 201

EXTENDED COLLEGES AND SITES

Chugiak/Eagle River Campus **(907) 694-3313**
Dennis Clark, Director FAX (907) 694-1491
10928 Eagle River Road, Suite 228
Eagle River, Alaska 99577

Kenai Peninsula College **(907) 262-0300**
Ginger Steffy, Director FAX (907) 262-9280
34820 College Drive, Soldotna, Alaska 99669

Kenai Peninsula College
Kachemak Bay Branch **(907) 235-7743**
Carol Swartz, Director FAX (907) 235-6376
533 E. Pioneer Avenue, Homer, Alaska 99603

Kodiak College **(907) 486-4161**
Dr. Douglas Hammer, Director FAX (907) 486-4166
117 Benny Benson Drive, Kodiak, Alaska 99615

Matanuska-Susitna (Mat-Su) College **(907) 745-9774**
Dr. Joseph Emmons, Director FAX (907) 745-9711
P.O. Box 2889, Palmer, Alaska 99645

MILITARY EDUCATION SERVICES

Director of Statewide
Military Education **(907) 753-7119**
Eleanor Schaff FAX (907) 753-8390
Building 21-590, Lemon Street
Elmendorf AFB, Alaska 99506

Anchorage Area Military Education Services

Elmendorf Air Force Base **(907) 753-0204**
Dean Terencio, Director FAX (907) 753-8390
Building 21-590, Lemon Street
Elmendorf AFB, Alaska 99506

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

Northern Alaska Military Education Services

Fort Wainwright Education Center **(907) 353-6395**
Edgar (Foxy) Hanners, Director FAX (907) 356-3762
Building 2110, Room 8, Montgomery Road
Fort Wainwright Army Post, Alaska 99703

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

Eielson Education Center **(907) 372-3484**
Edgar (Foxy) Hanners, Director FAX (907) 372-3492
3124 Wabash Ave. Room 105, Eielson AFB, Alaska 99702

Fort Greely Education Center **(907) 869-3070**
Edgar (Foxy) Hanners, Director FAX (907) 869-3079
P.O. Box 412, Delta Junction, Alaska 99737

AFFILIATE COLLEGE

Prince William Sound **(907) 835-1600**
Community College FAX (907) 834-1627
Dr. JoAnn McDowell, President 1-800-478-8800
P.O. Box 97
Valdez, Alaska 99686

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
MP Programs offered through Statewide Military Education

CERTIFICATES

Architectural Drafting (AI)
Automotive Technology (AI)
Aviation Maintenance Technology (AI)
Civil Engineering Drafting (AI)
Dental Assisting (AI)
Diesel Technology (AI)
Early Childhood Development (AI)
Electronics Technology (AI, MA)
Mechanical and Electrical Drafting (AI)
Mechanical Technology (KP)
Office Technology (AI, KO, KP, MA)
Paralegal Studies (AI)
Petroleum Technology (KP)
Refrigeration and Heating Technology (MA)
Small Business Management (KP)
Special Education (AI)
Structural Drafting (AI)
Welding Technology (KP)

DEGREE PROGRAMS

Associate Degrees

Associate of Arts (AI, KO, KP, MA, MP)

Associate of Applied Science

Accounting (AI, MA)
Air Traffic Control (AI)
Apprenticeship Technologies (AI)
Architectural and Engineering Technology (AI)
Automotive Technology (AI)
Aviation Administration (AI)
Aviation Maintenance Technology (AI)
Business Computer Information Systems (AI)
Computer Electronics (KP)
Culinary Arts (AI)
Dental Assisting (AI)
Dental Hygiene (AI)
Diesel Technology (AI)
Early Childhood Development (AI)
Electronics Technology (AI, MA)
Fire Service Administration (AI, MA)
General Business (KO)
Geomatics (AI)
Human Services (AI, MA)
Industrial Process Instrumentation (KP)
Medical Assisting (AI)
Medical Laboratory Technology (AI)
Nursing (AI)
Office Management and Technology (AI, KO, KP, MA)
Paramedical Technology (AI)
Petroleum Engineering Aide (KP)
Petroleum Technology (KP)
Professional Piloting (AI)
Refrigeration and Heating Technology (MA)
Small Business Administration (AI, KP, MA)
Welding Technology (AI)

Baccalaureate Degrees

Bachelor of Arts

Anthropology (AI)
Art (AI)
Biological Sciences (AI)
Computer Science (AI)
Economics (AI)
English (AI)
History (AI)
Interdisciplinary Studies (AI)
Journalism and Public Communications (AI)
Justice (AI)
Languages (AI)
Mathematics (AI)
Music (AI)
Political Science (AI)
Psychology (AI)
Sociology (AI)
Theatre (AI)

Bachelor of Business Administration

Accounting (AI)
Economics (AI)
Finance (AI)
Management (AI)
Management Information Systems (AI)
Marketing (AI)

Bachelor of Education

Elementary Education (AI)
Physical Education (AI)

Bachelor of Fine Arts

Art (AI)

Bachelor of Human Services

Human Services (AI)

Bachelor of Music

Elementary Education (AI)
Performance (AI)

Bachelor of Science

Anthropology (AI)
Biological Sciences (AI)
Chemistry (AI)
Civil Engineering (AI)
Computer Science (AI)
Geomatics (AI)
Interdisciplinary Studies (AI)
Mathematics (AI)
Natural Sciences (AI)
Nursing Science (AI)
Psychology (AI)
Sociology (AI)
Technology (AI)

Bachelor of Social Work

Social Work (AI)

Minors

Accounting (AI)
Addiction Studies (AI)
Alaska Native Studies (AI)
Anthropology (AI)
Applied Statistics (AI)
Art (AI)
Aviation Technology (AI)
Biological Sciences (AI)
Business Administration (AI)
Canadian Studies (AI)
Chemistry (AI)
Computer Information Systems (AI)
Computer Science (AI)
Communication (AI)
Creative Writing and Literary Arts (AI)
Economics (AI)
Education (AI)
English (AI)
Environmental Studies (AI)
Languages (AI)
Geology (AI)
History (AI)
Journalism and Public Communications (AI)
Justice (AI)
Mathematics (AI)
Music (AI)
Philosophy (AI)
Physical Education (AI)
Political Science (AI)
Psychology (AI)
Sociology (AI)
Social Work (AI)
Theatre (AI)
Women's Studies (AI)

Master's Degrees

Master of Arts

English (AI)
Interdisciplinary Studies (AI)

Master of Arts in Teaching

Education (AI)
English (AI)

Master of Business Administration

Business Administration (AI)

Master of Civil Engineering

Civil Engineering (AI)

Master of Education

Adult Education (AI)
Counseling and Guidance (AI)
Educational Leadership (AI)
Master Teacher (AI)
Special Education (AI)

Master of Fine Arts

Creative Writing and Literary Arts (AI)

Master of Public Administration

Public Administration (AI)

Master of Science

Arctic Engineering (AI)
Biological Sciences (AI)
Civil Engineering (AI)
Clinical Psychology (AI)
Engineering Management (AI)
Environmental Quality Engineering (AI)
Environmental Quality Science (AI)
Interdisciplinary Studies (AI)
Nursing Science (AI)
Science Management (AI)
Vocational Education (AI)

Master of Social Work

Social Work (AI)

1998-1999 ACADEMIC CALENDAR

FALL SEMESTER 1998

MARCH 30 - JULY 30, 1998
WolfLine Registration begins

AUGUST 24-25, 1998
On-site Registration

AUGUST 31, 1998
Late Registration begins

AUGUST 31, 1998
Instruction begins

SEPTEMBER 7-8, 1998
Labor Day Holiday

SEPTEMBER 18, 1998
December Graduation Application Deadline

NOVEMBER 3, 1998
Independent/Directed Study Deadline

NOVEMBER 25-29, 1998
Thanksgiving Holiday
UAA closed

DECEMBER 14-19, 1998
Final exam week

DECEMBER 19, 1998
Instruction ends

DECEMBER 24, 1998
Grades available on WolfLine

SPRING SEMESTER 1999

OCTOBER 26, 1999
WolfLine Registration begins

JANUARY 4-5, 1999
On-site Registration

JANUARY 11, 1999
Late Registration begins

JANUARY 11, 1999
Instruction begins

JANUARY 18, 1999
Alaska Civil Rights Day
No classes

JANUARY 29, 1999
May Graduation Application Deadline

MARCH 15-20, 1999
Spring Break
No classes

MARCH 29, 1999
Independent/Directed Study Deadline

MAY 3 - MAY 8, 1999
Final exam week

May 8, 1999
Instruction ends

MAY 9, 1999
Commencement

MAY 13, 1999
Grades available on WolfLine

SUMMER SESSION 1999

MARCH 30, 1999
WolfLine Registration begins

MAY 17, 1999
On-site Registration

MAY 31, 1999
Memorial Day Holiday
UAA closed

MAY 25, 1999
Late registration begins

MAY 26, 1999
Instruction (full session) begins

MAY 26, 1999
Instruction
(first session) begins

JUNE 29, 1999
Instruction
(first session) ends

JULY 2-4, 1999
Independence Day Holiday
UAA closed

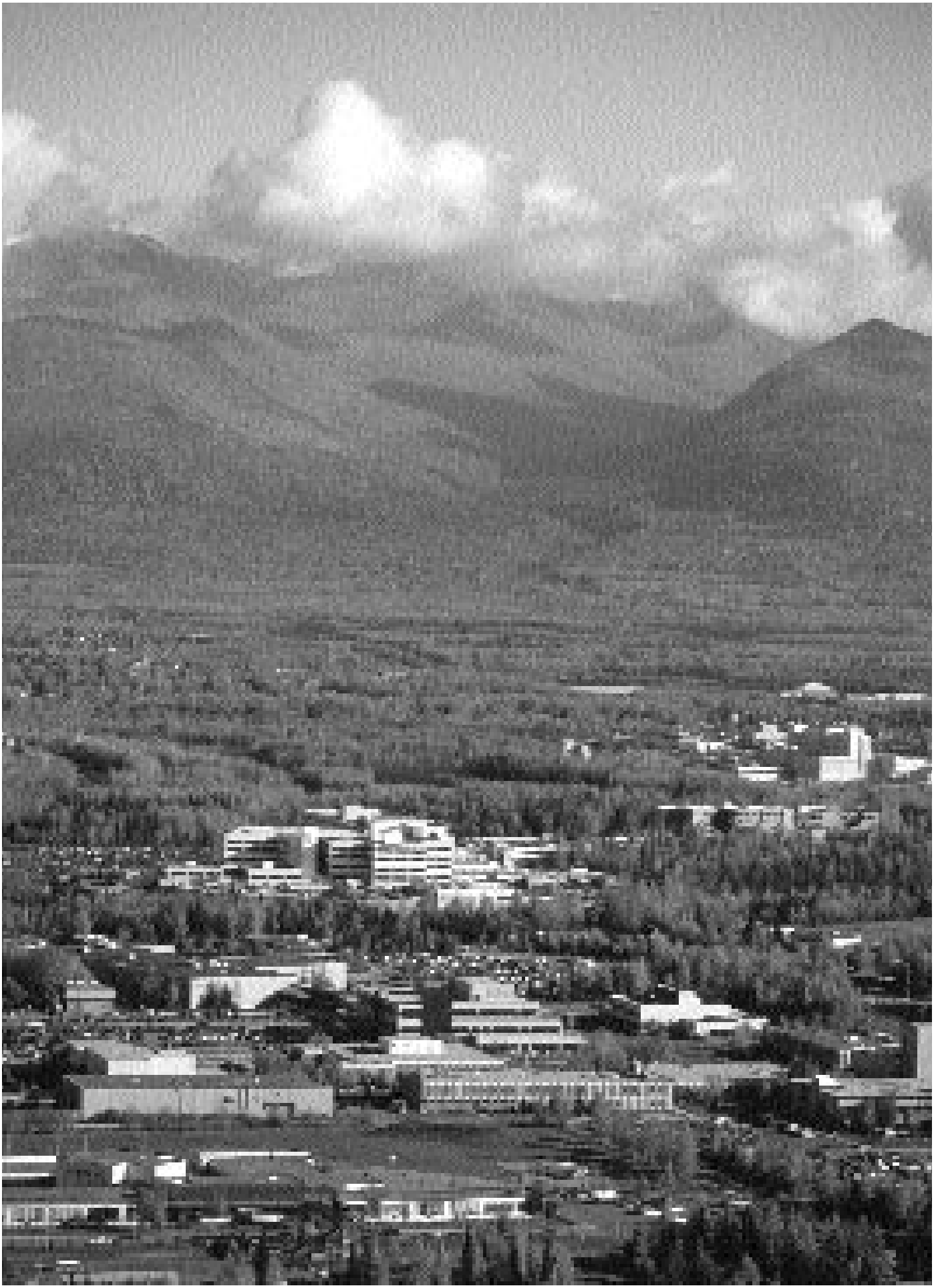
JULY 6, 1999
Instruction
(second session) begins

AUGUST 8, 1999
Instruction
(second session) ends

AUGUST 8, 1999
Instruction (full session) ends

AUGUST 15, 1999
Grades available on WolfLine

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
Anchorage 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

The University of Alaska Anchorage is the state's largest, most comprehensive university, serving over 21,000 students from all campuses of UAA. It is dedicated to fulfilling its mission by serving the people of Alaska through instruction, research, and public service. As part of the University of Alaska public system of higher education, UAA has four primary campuses and offers instruction at numerous other sites in southcentral Alaska and the Aleutian Chain. In addition to the state's largest campus located in Anchorage, the campuses of Kenai Peninsula College, Kodiak College, and Matanuska-Susitna College are an integral part of the University of Alaska Anchorage. The University of Alaska Anchorage also has a special relationship with Prince William Sound Community College in Valdez, Alaska. This catalog identifies the academic programs for the entire University of Alaska Anchorage and provides specifics about the Anchorage campus. UAA also publishes separate bulletins identifying the academic programs and student information for Kenai Peninsula, Kodiak, and Matanuska-Susitna Colleges.

Instructional programs at the University of Alaska Anchorage span certificate, associate, baccalaureate, and masters degree programs. UAA features extensive community and continuing education activities. Offering lifelong learning opportunities for students of all ages is central to UAA's mission. Academic, vocational-technical, and personal enrichment opportunities are all found at UAA. UAA has a cooperative Biomedical Education Program (WWAMI) offered in conjunction with the University of Washington School of Medicine, and houses the statewide Mining and Petroleum Training Service administered through the Community and Technical College , with offices in Soldotna and Anchorage.

Research is an active part of UAA. In addition to work done by individual faculty, organized research units at UAA complement the academic programs and reflect the special character of the University mission in Alaska. Research units include the Environment and Natural Resources Institute, the Center for Alcohol and Addiction Studies, the Center for Economic Education, the Institute for Circumpolar Health Studies, the Institute of Social and Economic Research, the Center for Human Development:UAP (University Affiliated Program), the Center for Economic Development, the Justice Center, and the Small Business Development Center.

The public service component of UAA is delivered primarily through university faculty and staff support of professional community activities. Over 400 professionally trained faculty and staff, spread throughout the major population centers in UAA's region, regularly provide consultation services and other public service activities. UAA works closely with the community and local and state agencies on projects aimed at serving the needs of the people in the region.

MISSION

The mission of the University of Alaska Anchorage is to participate in the development, dissemination, and application of knowledge through high quality instruction, research, and service to the public. As a comprehensive institution including a large urban campus in Anchorage, and the other campuses, Kenai Peninsula College, Kodiak College, Matanuska-Susitna College, and a network of extension centers, the University draws students from throughout Alaska, as well as from other states and nations. Prince William Sound Community College is affiliated with the University.

The University of Alaska Anchorage is a major center for development and delivery of programs in health and biomedical sciences, public policy and administration, special education, vocational-technical education, and international business and trade with an emphasis on Pacific Rim nations. A wide range of certificate, associate, baccalaureate, and graduate programs is offered in the arts and sciences, in vocational-technical fields, and in professional areas of study. Basic and applied research programs also constitute an important component of the mission of the University of Alaska Anchorage. The institution serves as an intellectual and cultural resource center through its programs in the fine arts, performing arts, and humanities.

An open enrollment policy and a commitment to innovation and flexibility enable the University of Alaska Anchorage to make quality higher education available to all who have the ability and interest to pursue an education or profession. Access to lifelong learning opportunities is provided through programs in developmental education, continuing education, community education, and traditional academic programs.

The University of Alaska Anchorage seeks to serve the broadest possible array of students. Admission to the associate of arts program, to several other associate degree and certification programs, and to courses in continuing, community, and developmental education is open to all. Requirements for admission to some associate of applied science degree programs and to all baccalaureate and graduate degree programs vary, depending upon the specific field of study.

The University of Alaska Anchorage promotes student success by maintaining a strong emphasis on faculty excellence and student services. The institution has an outstanding and committed faculty, many of whom are recognized nationally and internationally for their scholarly and professional accomplishments. Programs are focused on student needs and support the development of students by contributing to their cultural, social, intellectual, physical, and emotional growth. The University of Alaska Anchorage also provides support services for students with special needs.

The University of Alaska Anchorage maintains an environment that values, promotes, develops and fosters equal treatment of races and cultural and ethnic groups throughout its academic programs, student body, faculty and staff. Particular emphasis is given to the development of programs and services to meet the diverse needs of Alaska Natives. Overall, the goal of the University is to achieve broad racial and cultural diversity across all elements of the institution.

Located in the most populated area of the state, the University of Alaska Anchorage has the obligation to encourage and enhance the economic development of the region and state and to assist in the responsible development of natural and human resources. To achieve these goals, the institution cooperates with government, business, and industry. To ensure maximum use of resources, the University of Alaska Anchorage shares responsibility with both the University of Alaska Fairbanks and the University of Alaska Southeast in the delivery of selected programs.

To ensure the responsible development and delivery of programs, the University of Alaska Anchorage involves local citizens in planning programs and services, and coordinates with school districts, governmental agencies, and other institutions of higher education. Moreover, University policy includes students, faculty, and staff in the governance of the institution.

The University of Alaska Anchorage has a distinctive mission in the state of Alaska, and through its range of instructional resources, research programs, and service responsibilities, responds to the needs of the people of Alaska, the nation, and the world.

ANCHORAGE (GOOSE LAKE) CAMPUS

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

Located at UAA Drive and Providence Drive, the attractive wooded campus serves as a cultural hub for the city, providing theatre, music, arts, and sports events. Built in the mid-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 masters level degrees. It also provides extensive adult and 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 Eagle Center on Eagle River Road in the community of Eagle River, ten miles north of Anchorage, this increasingly popular facility delivers a variety of general interest and degree oriented courses. Enrollment is approximately 2,000 students per semester.

KENAI PENINSULA COLLEGE

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

With approximately 1,800 students and permanent, 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 degree programs, course work leading to baccalaureate degrees, vocational programs, and continuing education and personal development courses.

The Kachemak Bay Branch of the College is located on Pioneer Avenue in Homer. Academic courses are offered leading to the Associate of Arts degree and Associate of Applied Science degrees and vocational certificates in Office Management Technology and Small Business Management. 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, and vocational technical courses.

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

MATANUSKA-SUSITNA COLLEGE

Mat-Su College serves over 1,400 students. The campus is located on a 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 the majority of the educational activities. Courses are also provided in other locations in the Mat-Su Borough as demand warrants.

The College offers courses leading to associate and baccalaureate degrees. Upper-division courses are available on a limited basis. Numerous vocational and special interest courses meet the needs of students attending the College.

ADMINISTRATIVE ORGANIZATION

The University of Alaska Anchorage administration is organized into four divisions: Academic Affairs, Administrative Services, Student Affairs, and University Development. 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:

College of Arts and Sciences
Community and Technical College
College of Business and Public Policy
College of Health, Education and Social Welfare
School of Engineering
Kenai Peninsula College
Kodiak College
Matanuska-Susitna College
Consortium Library
Centers and Institutes
Distance Education
Summer Sessions
Honors Program
Computing and Technology Services

ADMINISTRATIVE SERVICES

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

Units reporting to the Vice Chancellor for Administrative Services include:

Bookstore
Budget Development and Maintenance
Business Services
University Police Department
Facilities Planning and Construction
Human Resource Services
Parking
Physical Plant
Procurement
Computing and Technology Services

STUDENT AFFAIRS

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

Units reporting to the Associate Vice Chancellor for Student Affairs include:

Student Financial Aid
  Educational Talent Search
Enrollment Services
  Admissions and Student Relations
  Educational Opportunity Center
  International and Study Abroad
  Recruitment

Native Student Services
  Della Keats Enrichment Program
  AHAINA Student Programs

Dean of Students
  Advising and Counseling
  Career Services Center
  Disability Support Services
  Residence Life
  Student Health Center
  Student Leadership
  Student Union Programs and Services
  Testing and Assessment Center

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
Athletics
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-USA Cooperative Research Agreement on Circumpolar Health.

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

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

AFFIRMATIVE ACTION

Through the institution's Affirmative Action Plan, the University of Alaska Anchorage recognizes its responsibility to provide education and employment opportunities for all qualified individuals. UAA also operates an Affirmative Action Office 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 he/she is being discriminated against has the right to contact the appropriate supervisor for assistance. The student or prospective student may also contact the UAA Affirmative Action Office (907 786-4680), the Human Resource Services Department (907 786-4608), the AHAINA Student Programs Office, 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 1900, 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 Affirmative Action Office (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 he/she has been a victim of harassment should contact the appropriate dean's or director's office, the Advising and Counseling Center, the Dean of Students' Office, the UAA Affirmative Action Office, or the U.S. Department of Labor (Office of Federal Contract Compliance Programs, Federal Building, Anchorage, Alaska).

SAFETY IS EVERYONE'S BUSINESS AT UAA

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.

ACCREDITATION

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

The following programs have additional approval and/or accreditation:

ALASKA WILDERNESS STUDIES PROGRAM
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)

AUTOMOTIVE TECHNOLOGY
Ford ASSET Program
Associate of Applied Science
Approved by the National Institute for Automotive Service Excellence.

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

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

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

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

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

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

EDUCATION
All education certification programs are accredited by the National Association of State Directors of Teacher Education and Certification

GEOMATICS
Bachelor of Science
Accredited by the related 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
Associate of Applied Science
Accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

MEDICAL LABORATORY TECHNOLOGY
Associate of Applied Science
Accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

MUSIC
Bachelor of Arts
Bachelor of Music, Elementary Education
Bachelor of Music, Secondary Education
Bachelor of Music, Performance
National Association of Schools of Music

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

PARALEGAL STUDIES
Certificate
Approved by the American Bar Association

PREPROFESSIONAL PRACTICE PROGRAM (AP4) FOR DIETITIANS
Approved by the American Dietetics Association Commission on Accreditation

PROFESSIONAL PILOTING
Associate of Applied Science
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
Airway Science Option is approved by the Federal Aviation Administration. Education Option is accredited by the National Association of the State Directors of Teacher Education and Certification.

ANCHORAGE CAMPUS STUDENT PROFILE

FALL CLOSING STATISTICS 1997

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

RACE:

African-American: 5.5%
Alaska Native: 4.9%
American Indian: 1.8%
Hispanic: 3.8%
Pacific Islander/Asian: 4.4%
White: 76%
Other/Unspecified: 3.6%

AGE:

19 and under: 12.0%
20-24: 25.0%
25-29: 17.1%
30-34: 11.3%
35-39: 11.0%
40-44: 9.9%
45 and over: 13.2%
Unspecified: 0.5%

CHAPTER 2

ENROLLMENT SERVICES

Open Enrollment
Orientation
Registration
Exchange Programs
Other Enrollment Services

OPEN ENROLLMENT

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

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

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

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

HIGH SCHOOL NON-GRADUATES

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

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

INTERNATIONAL STUDENTS

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

NON-DEGREE-SEEKING STUDENTS

Individuals in this category are not currently seeking a UAA certificate or degree. Non-degree-seeking students need only meet open enrollment criteria and satisfy course prerequisites to register in courses. Non-degree-seeking students who wish to register for graduate courses must obtain department chair or faculty member signature or appropriate approval. Non-degree-seeking students may not qualify for such benefits as Financial Aid or International Student Form I-20A.

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 Enrollment 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 Associate Vice Chancellor for Student 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 Associate Vice Chancellor for Student Services or Director of an extended college.

Under-age students may enroll in a maximum of seven credits per semester. An underage enrollment form must be submitted each semester the student wishes to attend.

ORIENTATION

The Office of New Student Services provides orientation services to all freshmen, transfer, re-entry, Alaska Native and international students. Orientation can help new students adjust to University life. During orientation, students meet with academic advisors and receive registration information and assistance. Campus tours are also provided.

Enrollment Services sponsors the Freshman Early Admit Program. Freshmen applying to UAA for the coming fall semester may participate in priority registration and orientation in early spring. Students in this program meet with advisors, enroll in courses, and participate in other orientation activities.

REGISTRATION

Registration is available during the dates listed in the University's Academic Calendar or other days as announced by Enrollment Services. Priority is determined by academic need. First priority is for students graduating with a UAA degree or certificate at the end of the semester; second priority is for continuing students accepted into a UAA degree program. All other continuing students receive third priority. Fourth priority is for students new to UAA but who are admitted into a UAA degree program. Fifth priority is for all other potential students who have submitted a completed Intent to Register form. To complete their registration, priority students pay all tuition and fees during the priority period.

Registration is conducted in person or by phone (Voice Response Registration) immediately preceding the beginning of fall and spring semesters. Access to on-site registration is by alphabetical sequence. Voice Response Registration is available to all students who attended the previous semester or who have submitted a completed Intent to Register form.

The Intent to Register 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.

A two-week late registration 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, his/her registration will not be accepted after the late registration deadline.* Students are not officially registered until all forms are filed and all fees paid. 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 registration period.

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

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

Each course listed in this catalog is not offered each semester. The semester Class Schedule lists course and registration information specific to the semester.

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

Graduate students are expected to make continuous progress in their graduate program from admission through graduation. Continuous registration (except summer session) is required.

REGISTRATION BY PROXY

Students unable to register in person may have a proxy register for them if they provide the proxy with a signed Registration by Proxy Form. These forms are available in the Class Schedules or from the Enrollment Services Information Center. The proxy must follow the policies and calendar governing registration. Proxy registrations are not accepted without written permission from the student.

REGISTRATION CHANGES

It is the responsibility of the student to become familiar with UAA policies, procedures and deadlines.

Refer to the Academic Calendar published each semester in the Class Schedule for specific deadlines.

Add, drop, withdrawal, credit/no credit, and audit deadlines for courses other than semester-length will be prorated according to the length of the class.

Students are expected to register only for course sections which they plan to attend and to complete all courses for which they register. If a change in a student's class schedule becomes necessary, semester-length courses may be changed according to the chart on page 18.

AUDITING CLASSES

Audit registrations are on a space-available basis. Auditors may be dropped from a class to make room for credit-seeking students. No credit is received for audited courses. Terms for auditing the course are determined by the faculty. Faculty may request the course be changed to a withdrawal status if the student fails to comply with the agreed-upon terms. Submission of papers for correction and grading and participation in laboratory experiences are at the discretion of the faculty.

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):

Desired Change	*Week 1 of Semester*	*Week 2 of Semester*	*After Week 2 of Semester*
ADD OR LATE REGISTRATION	Faculty signature required if course closed. Fee charged. Form filed with Enrollment Services.	Faculty signature required. Fee charged. Form filed with Enrollment Services.	Not permitted.

Desired Change	*Begin 7th calendar day of Semester through Week 2 of Semester DROP*	*Weeks 3 through 12 of Semester WITHDRAWAL*	*After Week 12 of Semester*
	Please see Class Schedule for specific dates.		
FACULTY INITIATED DROP OR WITHDRAWAL (OPTIONAL)	Form filed by faculty member with Enrollment Services. Course will not appear on student transcript.	Form filed by faculty member with Enrollment Services. Course will appear on student transcript with a grade of "W."	Not permitted.

Desired Change	*Weeks 1 through 2 of Semester DROP*	*Weeks 3 through 12 of Semester WITHDRAWAL*	*After Week 12 of Semester*
	Please see Class Schedule for specific dates.		
DROP OR WITHDRAWAL	No faculty signature required. Fee charged. Form filed with Enrollment Services. Course will not appear on student's transcript.	No faculty signature required. Fee charged. Form filed with Enrollment Services. Course will appear on student's transcript with a grade of "W."	Not permitted.

Desired Change	*Weeks 1 through 2 of Semester DROP*	*Beginning Week 3 of Semester WITHDRAWAL*	*After Last Day of Semester*
	Please see Class Schedule for specific dates.		
TOTAL WITHDRAWAL FROM UNIVERSITY	No faculty signature required. Fee charged. Form filed with Enrollment Services. Courses will not appear on student's transcript.	No faculty signature required. Fee charged. Form filed with Enrollment Services. Courses will appear on student's transcript with a grade of "W."	Not permitted.

CHANGE IN GRADING OPTION

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

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

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.

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 receive faxed written 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 his/her designee, or appropriate approval before registering.

SOCIAL SECURITY NUMBER

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

STUDY LOAD

Students may register for a maximum of 19 credits during the fall and spring semesters, and a maximum of 15 credits during the summer session. Students who want to enroll for additional credits must submit an approved petition for overload at registration.

The faculty advisor and appropriate dean must approve overload petitions for certificate or degree-seeking students. An advisor in the local UAA advising center must approve overload petitions 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 $4 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 International Pedagogical University of Magadan, Australia at Deakin University, Denmark at the University of Copenhagen, or in any of the Northwest Council on Study Abroad programs (London, England; Angers, France; Siena, Italy; Athens, Greece; Vienna, Austria; Macerata, Italy; Oviedo, Spain).

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

International Pedagogical 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. The exchange is designed for Education students completing their student teaching requirements. The School of Education sponsors and administers this exchange program.

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

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

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

NORTHWEST COUNCIL ON STUDY ABROAD (NCSA)

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

The vibrant metropolitan center of England, London offers a ceaseless banquet of cultural events and performances. Courses are held in central London, near the British Museum.

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

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

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

WESTERN UNDERGRADUATE EXCHANGE

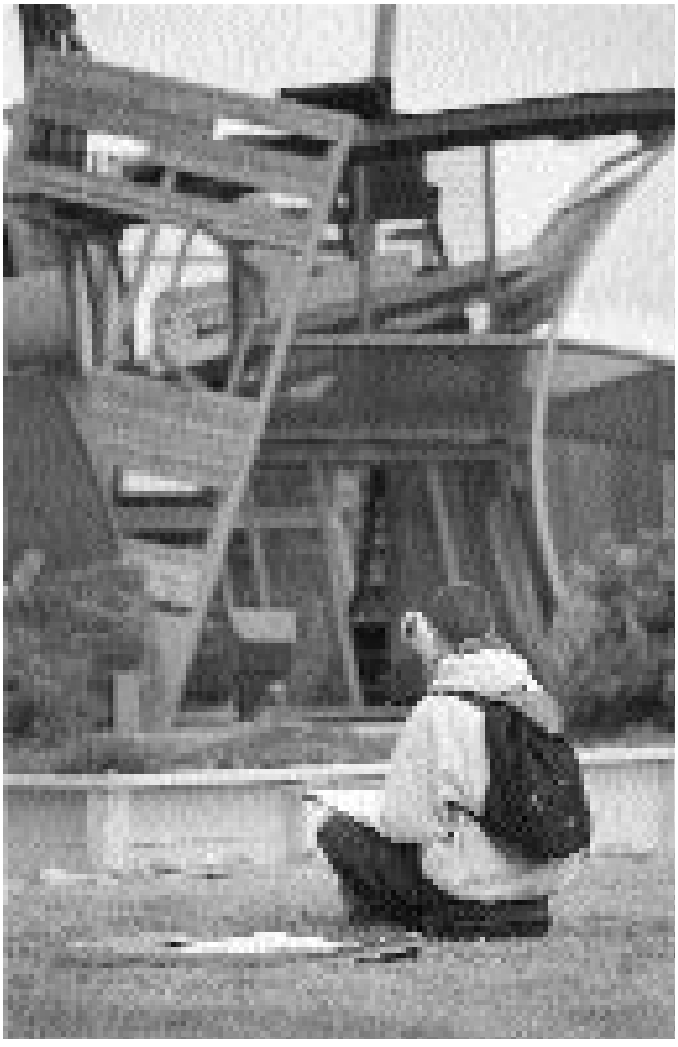
The University of Alaska Anchorage participates in the Western Undergraduate Exchange (WUE), a program of the Western Interstate Commission for Higher Education (WICHE) and other western states. Through WUE, certain students who are not Alaska residents may enroll in designated UAA programs. They pay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

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

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

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

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



OTHER ENROLLMENT SERVICES

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

Services and Programs coordinated through Enrollment Services include:

- Academic Petitions
- Admission Counseling
- Admission Processing
- Application for Graduation
- Campus tours (conducted by Student Ambassadors)
- Catalog and schedule distribution to school districts and public agencies throughout the state
- Chancellor's Scholarship Program
- Change of Student Name or Address
- Class Schedules
- Course Catalogs
- Degree Check
- 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
Special Course and Laboratory Fees
Financial Obligations
Payment Procedure
Refund Policy
Senior Citizen Tuition Waiver
Student Financial Aid
Satisfactory Academic Progress Regulations
Grants
Loans
Scholarships
Student Employment
Veteran's Assistance

RESIDENCY FOR TUITION PURPOSES

For the purpose of determining tuition rates, a resident is defined as any person who has been physically present in Alaska for 12 consecutive months (except for vacations or other absences for periods not exceeding an aggregate of 120 days with intention to return) and who declares intention to remain in Alaska indefinitely. Students who have been physically present in Alaska for 12 consecutive months and meet other residency requirements must notify Enrollment Services to change their non-resident status to resident status. However, any person who, within one year, has declared him/herself to be a resident of another state, has voted in another state, or has done any other act inconsistent with Alaska residence is considered a non-resident for tuition purposes.

Any unemancipated person under the age of 18 whose parent or guardian qualifies as an Alaska resident as defined above is considered a resident. Otherwise, an unemancipated person under the age of 18 is considered a non-resident for tuition purposes.

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 student status or in any other non-immigrant visa status cannot be considered a resident for tuition purposes. The only exception is when the non-immigrant student is from the Yukon Territory or the Northwest Territories in Canada, or from one of the University of Alaska sister cities as designated by the Board of Regents. Non-immigrant visa status is inconsistent with Alaska residence.

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 he/she meets the other conditions for residency.

This definition of residency is used solely to determine tuition rates at the University of Alaska Anchorage. Other agencies may use different definitions.

TUITION SUMMARY

TUITION COSTS:

Lower-division—Undergraduate (Course Numbers 050 - 299)

Resident	$73.00 per credit hour
*Non-resident	$227.00 per credit hour

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

Resident	$81.00 per credit hour
*Non-resident	$235.00 per credit hour

Graduate

Resident	$162.00 per credit hour
*Non-resident	$316.00 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

FEE EXPLANATIONS

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 class) 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
Catalog 6
Continuing Education Unit (CEU) Fee .....Varies
Course Reservation Fee (CRF Fee) 50-100
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 class) 5
Continuous Registration Fee 162
Graduation Application Fee 20
Laboratory, Material, and Other Fees .....Varies
Language Credit by Placement Fee (per course) 20
Late Registration Fee 35
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 (maximum per semester) 59.50
Student Health Center Fee (6 or more credits) 35
Student Credentials Fee 5
Technology Fee.....5/cr.... ..max 60
Transcript Fee (per copy) 4

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.

CONTINUING EDUCATION UNIT (CEU) FEE

This fee varies. It is charged per Continuing Education Unit instead of tuition.

CONTINUOUS REGISTRATION FEE

Graduate students are expected to make continuous progress in their graduate program from admission through graduation. Continuous registration (except summer session) is required.

COURSE RESERVATION FEE (CRF FEE)

A CRF fee is assessed to students who *fail* to pay tuition, defer tuition payment, 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.

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 material 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.

MUSIC LESSON FEE

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

NON-CREDIT COURSE FEE

Non-credit courses are numbered 001-049. These courses do not meet degree requirements and may have fees other than regular tuition. Such fees are listed in the semester Class Schedule as special fees.

PARKING FEE

All areas on campus except "Visitor Parking" require an appropriately displayed parking decal. Decals may be purchased during regular registration or from the UAA Parking Office any time throughout the semester. The UAA Parking Office is located at the University Lake Building, Suite 109. 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 $59.50 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 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 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 grade reports, transcripts, or diploma from students who have not fulfilled all their financial obligations to the institution. Permission to register for a new semester will be denied, or a student's current registration may be cancelled. Students are held financially responsible for all coursed 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.

Students in default status on student loans received through UAA will have their permission to register denied until brought current or satisfactory arrangements have been made.

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 with verifiable financial aid may inquire at the financial aid office for possible deferment . Students requiring a payment plan my 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 you registered. 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 you paid by credit card your credit card will be credited. If you paid by cash or check, a refund check will be mailed to your address of record. Refunds will not be issued for amounts of less than $1.

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

CANCELED 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.

WITHDRAWN CLASSES

No tuition refund or exchange will be allowed if you withdraw after the drop deadline.

NON-CREDIT, CEU, AND SELF-SUPPORT CLASSES

100% of all tuition charges 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 eight 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 enroll in most UAA credit classes and have tuition waived. Enrollment 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 on-site registration or from Accounting Services and 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.

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 assessment of the Course Reservation 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 Student Financial Aid Office assists students and prospective students in obtaining the funds necessary to attend UAA. 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 Student Financial Aid Office 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 Student Financial Aid Office should have received completed applications by April 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 and submit the application to the Department of Education.
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 Student Financial Aid Office.
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 or in admitted status
3. Demonstrate financial need for federal assistance as determined by the federal Student Aid Report (SAR)
4. List UAA's Title IV code on FAFSA (011462)
5. Meets satisfactory academic progress as defined by Student Financial Aid regulations

FEDERAL VERIFICATION

The U.S. Department of Education selects financial aid applications for the verification process. The Student Financial Aid Office 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 the minimum grade point average (GPA) required by their financial aid program.

SATISFACTORY ACADEMIC PROGRESS REGULATIONS

Federal, state, and institutional satisfactory academic progress regulations for federal financial aid and state student loan purposes are derived from State Loan Regulations 20 AAC 15.040 (j), (k), (l) and from Federal regulations (34 CFR) Parts 668.16 (e). Those regulations require accountability for student progress toward academic goals.

To receive Federal or State Financial Aid a student must be making satisfactory progress towards their degree and must have a cumulative GPA of 2.0 (3.0 graduate) or better. In order to assess progress towards their degree, the following rules apply.

1) If receiving student financial aid, the most current term enrollment must have been successfully completed with six (6) or more credits. Successful completion means graded courses receiving grades of A, B, C, D, CR or P.

   Pell grant recipients whose attempted enrollment was for fewer than 6 credits, must have completed their enrollment successfully.
2) A student's overall GPA for all course work completed at UAA must be 2.0 (3.0 for graduate students), whether or not you received financial aid during other enrollment periods.

3) A student must have completed successfully at least 24 (18 for graduate students) credits during each academic year (for full time students.) For 3/4 time students and 1/2 time students, completed 18 and 12 credits respectively for undergraduates; (graduate students 14 and 12 credits respectively) for each academic year.
4) A student's total credit hours attempted at UAA can not exceed 150 percent of the credit hours required for their current degree program as listed under the catalog for which admitted.

Note: A change of major within a degree level (i.e., associate, bachelors, masters) does not recalculate the 150% rule.

A change of degree level does recalculate the 150% rule provided that the total accumulation of financial aid received does not exceed Federal or State limits.

Graduate—To be eligible for Federal Title IV, or financial aid in any form, as a graduate student, you must be officially admitted to a graduate degree/certificate program at UAA. Admission as a graduate student is verified by the Student Financial Aid Office through Enrollment Services. A graduate student who is enrolled at UAA for nine or more 600-level credits is classified as full-time. 300- or 400-level courses will count toward a graduate student's full-time status only if they are major program requirements (not prerequisites). To verify that 300- or 400-level courses are applicable, the official graduate studies plan must be on file in the Student Records Office.

Determining Academic Financial Aid Status

A) If rule number one applies to a student's situation, the student is suspended from receiving financial aid for following enrollment semesters.

A student may regain financial aid eligibility when the student's cumulative GPA is above 2.0 (3.0 graduate) and cumulative credit hours applied to their degree is at or above the minimum for progress towards the degree (24 undergraduate credits for full time students per academic year, etc.)

If rule 2 or 3 applies to the student's situation the student is on financial aid probation and the student s academic record will be reviewed at the end of the academic year (at the end of spring semester).

At the end of the academic year a student on probation from a previous term will be placed on Financial Aid suspension for lack of satisfactory academic progress or removed from financial aid probation for having achieved satisfactory academic progress.

If placed on suspension, a student may regain eligibility for financial aid when the student's cumulative GPA is above 2.0 (3.0 graduate) and accumulative credit hours applied to their degree is at or above the minimum for progress towards the degree (24 undergraduate credits for full time students per academic year, etc.)

If rule 4 applies to the student's situation, the student is placed on financial aid probation pending an official degree check from UAA Enrollment Services.

If after the degree check the 150% rule has been applied accurately for the student s situation, the student is placed on Financial Aid suspension for lack of satisfactory progress. No appeal may be approved if the 150% rule has been applied accurately.

The student may be removed from financial aid probation conditionally, or removed from probation if the 150% rule was not applied accurately.

Student Responsibilities During Financial Aid Probation

A. Complete current term enrollment with grades that improves a student s cumulative GPA to 2.0 (3.0 graduate) or above.
B. A student on academic probation must see their academic advisor to discuss the student's academic progress a minimum of twice during each semester, and document those visits on the form provided from the Student Financial Aid Office.
C. The University provides a number of workshops on study skills, time management, and other topics designed to help students succeed in a university environment. Students are encouraged to take advantage of these opportunities. In addition, formal classes on how to succeed in college are offered and are highly recommended by the staff of the Student Financial Aid Office.

Appeals from Suspension from Student Financial Aid

Under extraordinary circumstances (documented situations beyond the control of the student) a suspended student may be placed in probationary status if a review committee believes the student supplied sufficient documentation to support the extraordinary circumstance that prevented the student from achieving satisfactory academic progress. Examples of extraordinary circumstances are divorce or death of immediate family members, serious illness, or medical emergency.

If a student suspended from Student Financial Aid for lack of satisfactory academic progress believes one of the extraordinary circumstances applies, and can provide adequate documentation, the student may file an appeal with the review committee for consideration. Appeal forms are available in the Student Financial Aid Office, may be returned as soon as possible. However, must be returned with the documentation at least 45 days prior to the effective date of any possible reinstatement.

Only one approved appeal (covering the equivalent of one academic year for a four year program, one semester for associate and graduate programs) may be granted for a student's entire degree program.

STUDENT STATUS	SEMESTER	ACADEMIC YEAR
Less than 1/2 time status=	1 sem. credit hr.	2 - 11 sem. credit hr.
Half time=	6 sem. credit hr.	12 - 17 sem. credit hr.
Three-quarter time=	9 sem. credit hr.	18 - 23 sem. credit hr.
Full-time=	12+ sem. credit hr.	24+ sem. credit hr.

Students must complete the credits funded with a minimum cumulative GPA of 2.0.

Grades for UAA students entering in any semester will be checked before financial aid is disbursed for the semester. All students who do not complete the required number of credits for the academic year or do not earn the minimum cumulative 2.00 GPA will be ineligible for additional financial aid.

Graduate Students—Satisfactory progress at UAA for Graduate Students will be evaluated annually at the end of each spring semester of the academic year. The prior fall semester, will be reviewed after the student has completed the spring semester. Students who are enrolled in one semester only will be evaluated based upon the single semester enrollment status in relation to the credits completed for the semester with a minimum 3.00 GPA. Therefore, all students will be reviewed at the end of the spring semester regardless of their enrollment status prior to that time. Student status for Graduate Students is defined as:

STUDENT STATUS	SEMESTER	ACADEMIC YEAR
Less than 1/2 time status=	1 sem. credit hr.	2 - 11 sem. credit hr.
Half time=	6 sem. credit hr.	12 - 13 sem. credit hr.
Three-quarter time=	7 sem. credit hr.	14 - 17sem. credit hr.
Full-time=	9+ sem. credit hr.	18+ sem. credit hr.

STUDENTS ON PROBATION ARE NOT CONSIDERED MAKING SATISFACTORY PROGRESS

Students on probationary status are not considered making satisfactory academic progress and, therefore, are not eligible to apply for federal loans. **Our office has 45 days to respond to all appeals.**

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 Student Financial Aid Office. Aid cannot be received at both institutions simultaneously.

Concurrent enrollment plans are subject to the following conditions. The student must:

a. Obtain written approval from the Student Financial Aid Office by filing a petition for concurrent enrollment,
b. Enroll in a minimum of six semester hours at UAA,
c. Have a majority of semester credits at UAA, and
d. Provide Financial Aid transcripts as determined by the Financial Aid office.

FINANCIAL AID REFUND AND REPAYMENT POLICY

Students who need to drop or withdraw from specific courses or from all their courses must do so officially by completing an add/drop form and processing it through Enrollment Services and Accounting Services. Only students who submit an add/drop form by the applicable deadline(s) will qualify for a tuition refund.

All UAA students receiving Federal Title IV financial aid funds, who partially withdraw, will be subject to the UAA refund policy. All UAA students receiving Federal Title IV financial aid funds, who totally withdraw, will be subject to either the Federal Title IV Pro Rata Refund Policy (for first time students only) or the UAA Federal Title IV Refund Policy or the UAA Refund Policy, whichever provides for the larger refund. The refund and repayment for total withdrawals is returned to the Federal Title IV aid programs.

Courses less than a semester in length have shorter pro-rated refund schedules and some courses (i.e. self-support, non-credit and CEU) follow special refunding rules. Refer to the applicable course schedule.

UAA INSTITUTIONAL REFUND POLICY

Refer to the applicable section of the catalog and/or current schedule.

UAA FEDERAL TITLE IV REFUND POLICY

(Based on a 15 week semester)

Tuition Refund	Withdrawal Dates
100%	Prior to 7 days before the first day of the semester
90%	7 days before the first day of the semester and prior to day 11 of the semester
50%	After day 10 and prior to day 27 of the semester
25%	After day 26 and prior to day 53 of the semester
0%	After day 52 of the semester

FEDERAL TITLE IV PRO RATA REFUND POLICY

(Based on a 15 week semester)

Tuition Refund	Withdrawal Dates
90%	Prior to day 8 of the semester
80%	After day 7 and prior to day 22 of the semester
70%	After day 21 and prior to day 29 of the semester
60%	After day 28 and prior to day 43 of the semester
50%	After day 42 and prior to day 50 of the semester
40%	After day 49 and prior to day 64 of the semester
0%	After day 63 of the semester

UAA REPAYMENT POLICY

1. All financial aid recipients who totally withdraw from UAA are required to check with the Accounting Financial Aid Disbursement Office to initiate the Withdrawal Record Calculation Worksheet. This worksheet identifies the Institutional and Non-Institutional costs, aid sources paid to Institutional costs and cash to students. The worksheet must be completed by the student, Accounting Financial Aid Disbursement Office, and the Student Financial Aid Office.
2. Financial aid recipients who totally withdraw from the University are subject to repayment of Federal Title IV Funds received in excess of tuition and fees as follows:
   a. The cash disbursement minus (applicable fraction) of the non-institutional costs of attendance must be repaid when a total withdrawal occurs within (applicable time-frame).

Fraction	Withdrawal Time-frame
4/15ths	Prior to day 8 of the semester
5/15ths	After day 7 and prior to day 15 of the semester
6/15ths	After day 14 and prior to day 22 of the semester
7/15ths	After day 21 and prior to day 53 of the semester
No Repayment	After day 52 of the semester

GRANTS

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

BUREAU OF INDIAN AFFAIRS (BIA)

The Bureau of Indian Affairs makes grants available to eligible full-time students. Applicants must be at least one-quarter Alaska Native or American Indian. For further information, contact the local BIA area office or your Native Regional Corporation.

FEDERAL PELL GRANT

The Federal PELL Grant makes funds available to eligible students with financial need. To be eligible for a PELL Grant, students must be working toward their first baccalaureate degree. Need is determined by the PELL Grant Family Contribution schedule.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (FSEOG)

The Federal Supplemental Educational Opportunity Grant program is similar to the PELL Grant program and can provide additional assistance to students with financial need. Only undergraduates working towards their first BA or BS degrees are eligible. FSEOG awards range from $200 to $4,000 per year*. Need is determined by the Federal Congressional Methodology.

**Maximum grants at UAA will not exceed $1,500.*

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 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, 3030 Vintage Blvd., Juneau, AK 99811.

EMERGENCY LOAN FUND (ELF)

Thirty day loans are available when school is in session to students whose financial need is modest and temporary. 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 PERKINS STUDENT LOANS

The Perkins Student Loan program is available to students enrolled at least half-time. An undergraduate student may borrow up to $9,000 for educational expenses for a 4-year period; a graduate student may borrow up to $18,000, minus any amount previously borrowed for undergraduate study.

An undergraduate with a previous baccalaureate degree is not eligible for a Perkins loan.

**Maximum loans at UAA will not exceed $3000.*

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 Student Financial Aid Office 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.
$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 part allows the Federal government to pay the interest while the student is attending post-secondary education and for six months after graduation or after the student has left their post-secondary educational experience.

2. Federal Unsubsidized Stafford Student Loan

All students are eligible to borrow the same amounts as the subsidized 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 you can borrow on the subsidized Stafford. Independent juniors and seniors can borrow up to the limits of the subsidized loan and up to $5,000 annually on the un-subsidized loan. Graduate students can borrow up to $10,000 annually in addition to the amount they are eligible for on the subsidized loan. Undergraduate students can borrow up to a maximum loan limit of $23,000 on un-subsidized loan borrowing. Graduate students can borrow up to a maximum of $73,000 on the un--subsidized loan program, including the amount borrowed as an undergraduate student.

B. FEDERAL PARENTS LOANS FOR UNDERGRADUATE STUDENT (PLUS)

Parent(s) can borrow for their dependent student 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 begin usually 60 days after the final loan disbursement to the student and parents.

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: http://www.uaa.alaska.edu/finaid/.

STUDENT EMPLOYMENT

Students seeking part-time employment at UAA may apply at the Career Services Center, Human Resource Services, or directly to a department. Students working in student positions may work up to 20 hours per week. Course and work schedules vary with each position.

CAREER SERVICES CENTER

Through its Cooperative Education program, the Career Services Center gives qualified students the opportunity to earn credit in their major while gaining work experience in a paid position. This program provides guidance to students through developed learning objectives and faculty participation.

Federal Work Study Program (FWSP) positions are also available to students who have applied for financial aid and received notice of eligibility for the FWSP 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 or stop 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 Internet site listed under "Current Job Openings" at: http://uaa.alaska.edu/www/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 Rm 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. It 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
AHAINA Student Programs
Native Student Services
Mathematical Sciences Math Lab
Reading/Writing Center

ADULT LEARNING CENTER

Adult Basic Education classes, GED certificate instruction, 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., Mt. View, Eagle River, and Nunaka Valley. Classes meet during the morning, afternoon, evening, and Saturday. There is no cost other than placement and testing fees. 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. For more information, please call (907) 276-6007.

ACADEMIC ADVISING

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

DEPARTMENTAL ADVISING

At UAA, admitted students with a declared major are assigned to a faculty advisor within the department offering the major. That individual can guide you on issues such as University policies and procedures, general and degree requirements, and jobs associated with the field. Contact your major department to learn how to set up an appointment with your advisor.

All students have the right to quality academic advising and the University has an obligation to ensure that academic advising is available to all students. Students are encouraged to use the academic advising program, but the final responsibility for participating rests with the individual student.

ADVISING AND COUNSELING CENTER

The Advising and Counseling Center, a unit of Student 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 "undeclared" (those undecided about a major) and students pursuing an Associate of Arts (AA) degree are assigned to the Advising and Counseling Center. Students not admitted to UAA who take classes by filing an Intent to Register 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 http://www.uaa.alaska.edu/dos/advise.html or e-mail general advising questions to aycouns@uaa.alaska.edu.

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 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.

CORRESPONDENCE STUDY

Within the University of Alaska system, correspondence study is administered through the University of Alaska Fairbanks campus. The UAA Advising and Counseling Center has brochures for this program and can proctor exams. Brochures are also available at Enrollment Services, in the Administration Building, Room 158 (907) 786-1480.

CAREER SERVICES CENTER

The Career Services Center (CSC) provides a number of services and resources. Through the CSC, students can participate in Cooperative Education/Internships, a unique program that integrates academic credit with paid, planned, supervised work experience. Students can also participate in the Federal Work Study Program, which is part-time employment, as part of a student financial aid package.

The CSC provides career counseling, resume assistance, workshops, and campus and community presentations. The Resource Room offers books, videos, college catalogs, and a variety of literature to assist students on a career path or job search.

Computers linked to the Alaska Department of Labor Job Bank and the Dictionary of Occupational Titles are available for student use. AKCIS is a self-directed computer program developed to assist the user in exploring career and educational information.

The CSC is open Monday through Friday all year. For further information, call the Center's Hot Line number at (907) 786-4545 or stop by the Business Education Building, Room 122.

COOPERATIVE EDUCATION

Cooperative Education is a unique form of education which integrates academic programs with paid, planned, and supervised work experience allowing the student to earn elective credit and a salary. Applied academics allows the student to test classroom skills in a professional setting and explore career opportunities. For program information, call the CSC at (907) 786-4513.

COUNSELING

ADVISING AND COUNSELING CENTER

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

PSYCHOLOGICAL SERVICES CENTER

The Psychological Services Center offers low-cost therapy for a variety of problems, including counseling for families, couples, and individuals of all ages. Clinical psychology students in the last phase of study for their master's degree see patients under the supervision of licensed psychologists from the psychology faculty. Services are available to the campus community. A fee schedule is based on each individual's ability to pay. The Psychological Services Center is located on the second floor of the College of Arts and Sciences Building. For more information, call (907) 786-1795 or stop by College of Arts and Sciences, Room 264.

STUDENT HEALTH CENTER

The Student Health Center provides mental health psychotherapy to students in need. The therapist acts as a patient advocate and assists individuals in dealing with stressful life events, depression, anxiety, sexual and physical abuse, alcohol and drug dependency, situational crises, and other life issues. A nominal fee is charged for psychotherapy and group sessions. Call (907) 786-4040 or stop by Business Education Building, Room 120 to schedule an appointment.

NATIVE STUDENT SERVICES

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

DISABILITY SUPPORT SERVICES

At the University of Alaska Anchorage, providing equal opportunities for students who experience disabilities is a campus-wide responsibility and commitment. Disability Support Services (DSS) is the designated UAA office responsible for coordinating academic support services for UAA students who experience disabilities. Sign language interpreters, note-taking assistance, textbooks on tape, alternative testing, and assistive technology are among the services provided. All services are tailored to the needs of the individual and type of disability. Documentation of the disability is required to determine appropriate support services. The Disability Awareness Club is a recognized student organization, and membership is open to all students. The DSS office is located in the Business Education Building, room 105. For further information, call (907) 786-4530 (Voice) or (907) 786-4536 (V/TTY).

EDUCATIONAL OPPORTUNITY CENTER

The Educational Opportunity Center (EOC) is a specialized advising program for non-students who are undecided about an educational direction. EOC staff members provide information on schools and training programs throughout the United States, and assist with the application and admission process. They also help with financial aid and provide career exploration on how to choose a major field of study. To obtain information, please call (907) 274-5522.

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, 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 coffee and tea for study breaks; 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.

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 694,000 volumes and government documents, subscriptions to more than 3,600 journals, and an extensive sheet music collection. The Library is a select depository for federal and state documents. It houses special collections about Alaska and the Arctic, including a growing collection of archives and manuscripts, and maintains an extensive health sciences collection to support its Health Sciences Information Services.

For further information, please see the the Library web page at http://www.uaa.alaska.edu/lib/ or call the Reference Desk at (907)786-1848.

AHAINA STUDENT PROGRAMS

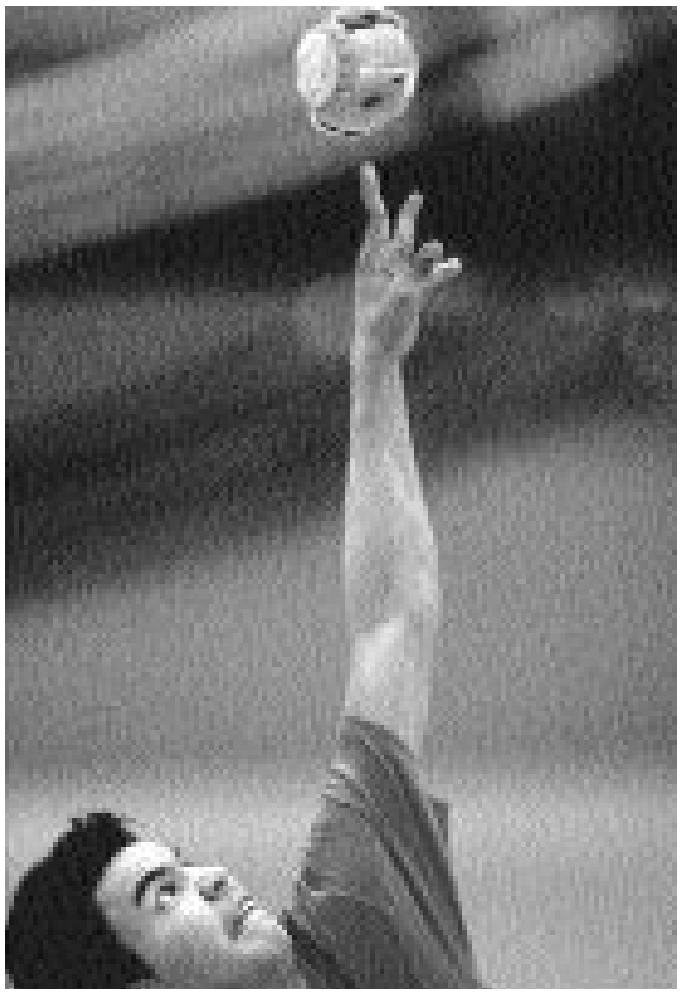
The University of Alaska Anchorage recognizes the growing population of students of color and is determined to meet many of their needs. AHAINA is an acronym for African American, Hispanic, Asian, International and Native American students. Our primary goal is to assist students of color (minority) in 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, meditation, 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 Students Services (NSS) is to improve the retention and academic success of Alaska Native and American Indian students in achieving their educational goals. The goals of NSS are to promote academic excellence; support students' sense of identity, belonging, empowerment, leadership, and to facilitate a receptive academic and cultural climate for Native students on the UAA campus.

Native Student Services provide support services targeting the particular needs of Native students to adjust and succeed in an urban university environment. The support services include educational planning and academic advising, scholarship, advocacy, referrals and financial aid information. Native Student Services also hosts cultural, social and educational events.

NSS offers semester long orientation which includes registration assistance, skills assessment, course selection, housing assistance, and other assistance needed by Alaska Native American students.

NSS houses the Native Student Center where students can study, meet new friends and interact with people who share similar experiences as indigenous peoples. NSS also houses the CIRI Success Computer Lab.

NSS works closely with university departments and the community to provide programs and events which provide cocurricular enrichment and compliment the student's academic pursuits.

NSS sponsors the Della Keats Enrichment Program (DKEP). DKEP is an academic summer program which targets Alaska Native and American Indian high school students who are planning careers in the health professions. The 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 also provided to the students.

The First Step Program is a bridging program for high school juniors and seniors wanting to "jump start" their college careers. Designed to assist students in making the transition from high school to college. First Step focuses on academic preparation in the areas of English, math , and study skills. Opportunities are also provided for career exploration and mentoring with professionals working in fields related to the oil industry.

Native Student Services is located in the Business Education Building, Room 108. For more information about Native Student Services programs, or to receive our newsletter, contact us at (907) 786-4000; fax (907) 786-4009. Or you may write to us at Native Student Services, 3211 Providence Drive, Anchorage, Ak 99508. Our e-mail address is aynss@uaa.alaska.edu.

MATHEMATICAL SCIENCES MATH LAB

The Mathematical Sciences Math Lab, located in the College of Arts and Sciences, Room 156, offers tutoring for students at the remedial and lower-division levels in mathematics, and the lower-division level in applied statistics. The Math Lab is staffed by tutors who have completed at least three semesters of calculus. They are hired by the Department of Mathematical Sciences.

Video tapes for MATH 054, 055, 105, 107, 108, and 109, as well as AS 252 are available for in-lab use. Some software is available for use on the Math Lab computers. Some reserve material is also placed in the Math Lab by faculty members. All students registered for a MATH or AS course who have paid a lab fee are eligible to use the Math Lab services.

For information, please call (907) 786-1742

READING/WRITING CENTER

The Reading/Writing Center (RWC) offers students supplemental instruction in reading, writing, and study skills. It is staffed by members of the UAA English faculty and teaching assistants.

The Center is used by students enrolled in regular reading and composition courses, students in other UAA courses who need help with particular projects, and those interested in self-directed improvement of skills. Users are assessed a nominal fee for these services, paid once per semester. Any counselor or teacher may refer a student to the RWC, but no referral is necessary to use the services.

Examples of the skills students develop at the RWC include comprehending course material, discussing texts in detail, remembering information, documenting information, formulating thesis statements, organizing ideas, and expressing ideas clearly. The RWC also provides assistance with spelling, vocabulary development, test-taking, technical report writing, and English-as-a-Second-Language. For further information, please call (907) 786-6918.

CHAPTER 5

STUDENT LIFE

Student Rights, Freedoms, and Responsibilities
Alcohol Policy
Athletic Programs
Bookstore
Computing and Technology Services
Fine and Performing Arts Facilities
Food Service
University Police Department
Housing and Residence Life
Student Health Center
Student Leadership
Student Union Programs and Services

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 Dean of Students' Office. 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 Dean of Students' Office, located in the Campus Center, Room 233.

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 admission requirements. The University of Alaska Anchorage does not discriminate on the basis of race, creed, color, national origin, mental or physical disabilities, age, or sex 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 recognized 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 officials, 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 quality education in keeping with its financial resources; students have protection through campus-specific procedures against prejudiced or capricious academic evaluation. Student performance shall be evaluated solely on an academic basis, not on opinions or conduct in matters unrelated to academic standards. Students are responsible for the proper completion of their academic program, for familiarity with all requirements of the University catalog, and for maintaining an acceptable grade average for degree requirements. Students have the right to be informed at the beginning of each term of the nature of the course, course expectations, evaluation standards, and the grading system.

ACCESS TO STUDENT RECORDS

The Family Educational Rights and Privacy Act (FERPA) of 1974, as amended, was designated to protect the privacy of education records, to establish the right of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Students also have the right to file complaints with the FERPA Office, concerning alleged failures by the institution to comply with the Act.

UAA 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 educational 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 will be released to the media; also, names and addresses of the above honored students will be 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 will appear in the commencement program and will be released to the media unless a written request not to do so has been received by Enrollment Services.
3. Names of scholarship recipients will be 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 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.
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.

STUDENT CODE OF CONDUCT

Students at the University have certain rights and responsibilities. Included in the responsibilities is an awareness of the standards of appropriate behavior. The University expects each student to exercise self-discipline which will enhance the individual's educational experience and the total learning environment of the University.

In general, the off-campus activities of students are viewed as their personal business. However, when a student violates local, state, or federal laws and at the same time violates the Code of Conduct, either on or off campus, the University reserves the option of initiating disciplinary action on its own. Disciplinary action may be initiated by the University and 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 prohibited forms of conduct, but not exclusively limited to:

1. **Disruption or Obstruction:** Conduct which obstructs or disrupts teaching, research, administration, disciplinary proceedings, other University activities, or other authorized on-campus non-University activities.
2. **Harassment:** Physical or verbal abuse, or sexual harassment of another person, intimidation, or other conduct including, but not limited to, hazing which creates an unreasonably hostile or offensive learning, living, or working environment.
3. **Endangerment:** Conduct including, but not limited to physical abuse, sexual assault, terroristic threats, hazing and/or coercion, that endangers or unreasonably threatens the health and/or safety of any person or group of persons, or conduct which causes actual physical harm to a person or persons.
4. **Intoxicants and Drugs:** Possession, consumption, being perceptibly under the influence, or furnishing of alcoholic beverages on campus property or at supervised functions of student organizations except as provided by rules, policies, and procedures of the University. Possession, consumption, being perceptibly under the influence, or furnishing of any narcotic or dangerous drugs except when use or possession is lawfully prescribed by an authorized medical doctor or dentist.
5. **Dangerous Chemicals and Devices:** Unauthorized use, possession, or sale of firearms, explosives, dangerous chemicals, or other dangerous weapons on University property except as authorized by campus procedures.
6. **Other Forms of Misconduct:** Forgery, alteration, or misuse of University documents, records, funds, or identification. Falsification of records or deliberate misrepresentation of facts on University forms and documents. Telephone misuse, theft, or malicious destruction, damage, or misuse of University or private property including computers. Unauthorized use of University funds, equipment and supplies (including but not limited to falsely representing oneself as an agent of the University, incurring debts or entering into contracts on behalf of the University).
7. **Violations of University Regulations:** Violating published University regulations, including those related to entry and use of University facilities, the rules in this section, and any other rules or regulations which may be enacted by the University. Failure to comply with the lawful directions of University personnel acting in the performance of their duties.
8. **Harassment of Wildlife:** Physical harassment, verbal taunting, or the feeding of any wildlife on University grounds that could create a hazardous environment.

DISCIPLINARY PROCEDURES

A student, faculty, or staff member of the University may initiate disciplinary action against a student for violation of the University Student Code of Conduct. Allegations concerning student misconduct must be in writing and signed by the complaining party.

A Dean of Students' designated campus hearing officer will conduct a preliminary interview with a student charged with violating the Student Code of Conduct to discuss the alleged incident. Written notice of the interview will be given to the student at least 3 working days prior to the scheduled interview. The student may present explanations, defenses and/or mitigation of his/her conduct at the time of the interview. Should the student not attend the interview, the hearing officer will review the facts of the case in the student's absence. At the conclusion of a preliminary interview, the hearing officer is empowered to:

1. Dismiss the case based on insufficient evidence to support the accusation(s).
2. Issue sanctions as provided for under "Sanctions".
3. Refer the case for a hearing when termination of housing contract, suspension, or expulsion is the recommended sanction.

Hearing Process: If the hearing officer finds that a student's alleged involvement in an incident is a matter potentially leading to termination of housing contract, suspension, or expulsion from the University, a hearing may be scheduled between 3 and 15 days from the date of the preliminary interview. Maximum time limits for scheduling of hearings may be extended at the discretion of the Dean of Students. The student may choose to have his or her case heard by the Dean of Students or designee at an administrative hearing or by the Student Judicial Board.

1. An administrative hearing is conducted by the Dean of Students or designee who will make a decision on whether or not a violation of the Student Code of Conduct occurred based on the evidence. The Dean of Students' or designee's determination shall be made on the basis of whether there is substantial evidence to establish that it is more likely than not that the accused student violated the Student Code of Conduct.
2. The Student Judicial Board is composed of two students, two faculty/staff members, and a hearing officer, who serves as the board chair. The UAA Student Government will appoint two students and alternates to serve on the committee for one year terms beginning the fall semester. The Chancellor will appoint the two faculty/staff members and alternates for one year terms beginning the fall semester. Hearing officers will be selected by the Dean of Students from a pool of qualified faculty, staff, and students who have successfully completed judicial training sessions coordinated by the Dean of Students' staff. Students must have a cumulative 2.50 GPA, be in good disciplinary standing, and be currently enrolled in at least 3 credits at UAA to serve on the Student Judicial Board.

The Dean of Students will appoint a UAA faculty/staff member to present the University's case to the board.

Board decisions will be determined by a majority vote. The chair will only vote in case of a tie. The board will make a decision on whether or not a violation of the Student Code of Conduct occurred based on the evidence. The board's determination shall be made on the basis of whether there is substantial evidence to establish that it is more likely than not that the accused student violated the Student Code of Conduct. The board may or may not recommend appropriate sanctions based on a finding of violations. In either case, the hearing officer may consult with the Dean of Students on the appropriate level of sanctions.

NOTE: To the extent possible, the University will take reasonable precautionary measures to conduct the adjudicatory process in as safe an environment as possible.

Recommended sanctions of suspension or expulsion from the University will be forwarded to the Associate Vice Chancellor for Student Affairs, who will review the case as if on appeal. Should the Associate Vice Chancellor determine suspension or expulsion is warranted, that recommendation will be forwarded through the Chancellor to the University President, who will make the final decision.

Each student at the University shall be afforded appropriate due process in disciplinary matters.

Students charged with violations of the University Student Code of Conduct will be afforded the following rights during the Student Judicial Board hearing process:

1. Written notice outlining the allegations of misconduct and the section(s) of the Student Code of Conduct which allegedly have been violated.
2. Notification of the names of witnesses, copies of any witnesses' written statements or other documents on which the University will rely, at the accused student's request. The accused student must also provide the board chair with the names of witnesses and copies of any witnesses' written statements or other documents on which the accused student will rely.
3. The opportunity to choose between a public or private hearing to the extent that such choices are permitted by applicable state and federal laws. Student disciplinary proceedings will be private unless a written request is made to the Dean of Students, by the accused student, to make them public.*
4. The opportunity to be advised by an advocate or legal counsel. Advocates and legal counsel may be physically present during disciplinary hearings, but may not represent the accused student in the disciplinary proceedings, nor speak or ask questions on the student's behalf.**
5. The opportunity to confront and hear all witnesses relied upon by the University.
6. The opportunity to present a defense, including introduction of relevant exhibits, affidavits, or witnesses.***
7. The right to remain silent during the hearing, and that silence may not be used against the accused student, but violation(s) of the Student Code of Conduct may be found based on the evidence presented.
8. The right to have a full and complete record of the hearing, at the accused student's own expense.
9. The right to appeal the decision, as provided, within this procedure.

*The rights of victims, especially in instances involving personal injury and/or sexual assault, are as important as the rights of the accused. An alleged victim of personal injury or sexual assault violations will be provided information regarding the institutional responses in the disciplinary procedure. To the extent possible, the University will, upon request, take reasonable measures to prevent unnecessary exposure of sexual assault victims during the adjudicatory and appeals process.

**The one exception is that legal counsel may represent the accused student if there are criminal charges pending. The student is responsible for his or her own attorney's fees and legal costs.

***Restrictions on exhibits or physical evidence will be at the discretion of the board chair.

Appeals process: A student who has been sanctioned by the University may elect to file one appeal. An appeal review will be granted if:

1. There was a likelihood of a material procedural error made during the discipline process which could have changed the outcome of the case, or
2. The sanction administered was clearly inappropriate for the violation committed, or
3. There is newly discovered evidence which the student could not reasonably have been expected to know of or discover through diligence prior to the conclusion of the discipline case and which evidence, if known, might have affected the outcome of the case.

Appeal requests must be submitted in writing within 5 working days of receipt of the written decision by the hearing officer or the Dean of Students. Failure to file within the time specified will render the original decision final within the University. The appeals process is as follows:

1. Resident students may appeal disciplinary decisions made by the Resident Hall Coordinator to the Director of Residence Life.
2. Students may appeal disciplinary decisions made by the Director of Residence Life or a campus hearing officer to the Dean of Students.
3. Students may appeal disciplinary decisions made by the Dean of Students to the Associate Vice Chancellor for Student Affairs.
4. Students may appeal suspension and expulsion recommendations made by the Associate Vice Chancellor for Student Affairs to the President of the University of Alaska.
5. Students may appeal disciplinary decisions made by the Associate Vice Chancellor for Student Affairs to the Chancellor only if those disciplinary decisions were originated with the Associate Vice Chancellor.

Once a student discipline appeal has been considered by a designated appeal reviewer, it may not be appealed again within the University.

Appeals are administrative reviews of the record. A second hearing panel review shall not be authorized by the designated appeal reviewer unless the reviewer determines a previous hearing process was sufficiently flawed as to be fundamentally unfair to the accused student.

Sanctions: The following list of sanctions is illustrative rather than exhaustive. Examples of Residence Life sanctions are addressed in the Residence Life handbook. The University reserves the right to create other reasonable sanctions or join sanctions as it deems appropriate.

1. Warning-A notice in writing to the student that the student is violating or has violated institutional regulations.
2. Probation-Probation is for a specified period of time and includes the probability of more severe disciplinary sanctions if the student is found to be violating any institutional regulation during the probationary period. Probation may carry certain conditions.
3. Loss of Privileges-Denial of specific privileges for a designated period of time.
4. Restitution-Reimbursement for damage to or misappropriation of property, or for reasonable expenses incurred by a victim or the University related to the misconduct involved.
5. Discretionary Sanction-Community service work or other uncompensated labor, educational classes, counseling, or other sanctions that may be seen as appropriate to the circumstances of a given case. Costs for courses or services will be the responsibility of the student.
6. Restricted Access-Restriction from entering certain designated areas and use of specific equipment and facilities for a specified period of time.
7. Summary Suspension-A summary suspension may be used to protect the University community from the clear and present threat of unreasonable disruption or to the safety of persons and/or property. A summarily suspended student is not to occupy any portion of the campus during the period of summary suspension. Summary suspension shall generally be for the purpose of investigations of the events in which the student was allegedly involved and/or for the protection of persons or property pending the final outcome of the University hearing process.

8. Suspension-Separation of the student from the University for a definite period of time, after which the student may be eligible to return. Conditions for readmission may be specified.
9. Expulsion-Permanent separation of the student from the University.

Reinstatement will depend upon the provisions of the disciplinary action imposed. By state law, students who have been separated from the University of Alaska may only be readmitted upon the consent of the President of the University of Alaska state-wide system. Correspondence concerning disciplinary action or reinstatement should be addressed to the office of the Dean of Students.

Status of Student Pending Action: Pending action on the charges, the status of a student shall not be altered, nor shall his/her right to be present on the campus and to attend classes, except when suspended or expelled.

SEX OFFENSES ON CAMPUS

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 Dean of Students Office, 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.

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

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

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

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

ACADEMIC DISHONESTY

Academic integrity is a basic principle which requires that students take credit only for ideas and efforts that are their own. Cheating is defined as the submission of materials in assignments, exams, or other academic work which is based on sources prohibited by the faculty member. Cheating shall include, but is not limited to, situations in which the student:

1. Refers during an academic evaluation to material sources not authorized by the faculty member.
2. Utilizes devices during an academic evaluation that are not authorized by the faculty member.
3. Provides assistance to another student or receives assistance from another student during an academic evaluation in a manner not authorized by the faculty member.
4. Presents as his/her own the ideas or words of another person without customary and proper acknowledgment of sources.
5. Knowingly permits his/her words to be submitted by another person without the faculty member's permission.

6. Acts as a substitute or utilizes a substitute in any academic evaluation.
7. Fabricates data in support of laboratory or field work.
8. Possesses, buys, sells, obtains, or uses a copy of any materials intended to be used as an instrument of academic evaluation in advance of its administration.
9. Alters grade records of his/her own or another student's work in a course or a component of a course.

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 disciplinary procedures outlined in this catalog. Academic actions are reviewable under the Academic Appeals Policy contained in this catalog.

STUDENT COMPLAINT RESOLUTION PROCESS

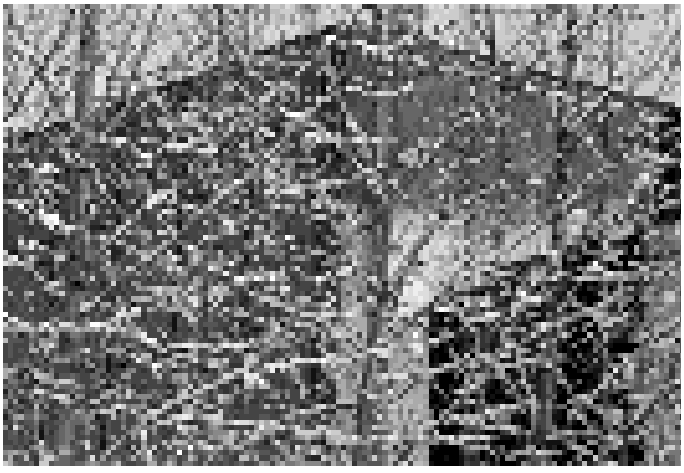
University students have a variety of procedures available to them to process complaints about actions or inactions by members of the University community which adversely affect them. What process to use will depend on the nature of the complaint. Refer to the specific sections in this catalog that address the issues in question.

For complaints about grades and other actions affecting academic standing, refer to the "Academic Appeals Policy"; for complaints about the conduct of another student, refer to the "Student Code of Conduct" and the "Disciplinary Procedures"; for complaints of sexual harassment and sexual misconduct, refer to the "Sexual Offenses Policy"; for challenges to the content of your student record, refer to "Access to Student Records".

For complaints of other types of unlawful discrimination based on race, color, religion, national origin, sex, age, Vietnam era or disable veteran status, physical or mental disability, changes in marital status, pregnancy or parenthood, contact the Affirmative Action Office.

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

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



ALCOHOL POLICY

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

CAMPUS ALCOHOL POLICY

The primary objectives of UAA's 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.

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 solely in their own 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 distracts 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 52 West 8th Avenue, Room 101. 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.

Complete information on Policies and Regulations of Control can be found in the Drug Free Schools pamphlet included with the registration information.

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, women's volleyball and men's cross country running, and the Pacific Collegiate Swim Conference for men's swimming.

More than 125 student-athletes represent UAA in intercollegiate competition in the following sports: basketball, volleyball, gymnastics and skiing for women; basketball, hockey, cross-country running, skiing and swimming 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 two prestigious tournaments: the Carrs Great Alaska Shootout men's basketball tournament and the Northern Lights Invitational women's basketball tournament. Each tournament annually features some of the best Division I teams in the nation. In addition, the University has served as the host for numerous conference tournaments, as well as several NCAA Championship events.

UAA 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 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 resalable condition may be returned for refund within 10 school days from the start of class. The original cash register receipt is required to show proof of purchase. 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 http://www.uaa.alaska.edu/bookstore/books.html.

COMPUTING AND TECHNOLOGY SERVICES

University of Alaska students, staff, and faculty are eligible to use microcomputer and DEC ALPHA computing resources at all University of Alaska Anchorage campuses. University of Alaska Anchorage (UAA) Computing and Technology Services (CTS) provides local campus Network Services, Computer Operations for the CWOLF and URSA systems, and Customer Support for the campus. Through the computer system, students will have access to the global resources of the internet.

Handouts on UAA computing resources can be found on the World Wide Web at: http://www.uaa.alaska.edu/cts/doc.html

COMPUTER LABS

The CTS computing labs are in the Library, located on the second floor; Campus Center, located in Room 221/222; and the Learning Resource Center (LRC), located in the Sally Monserud Building. These labs are available during regular building hours. Another CTS computer lab, located in the Eugene Short Building Room 102, is open only when a consultant is on duty. The hours consultants work in the Library, the LRC, and Campus Center are posted in these facilities each semester.

In each lab IBM-compatible and Apple Macintosh microcomputers are available. Each computer lab has similar software available. Contact a consultant for software available in each lab. All microcomputers are connected to the campus network. CTS consultants are available at the facilities to assist students, staff, and faculty in becoming familiar with computer resources, and to help interpret error and system messages or answer computer related questions. Consultants cannot help write programs or conduct tutoring. CTS consultants can be reached at (907) 786-1889 (Library Lab), (907)786-6830 (LRC Lab), (907) 786-6996 (ESB Lab) or extension 3064 (Campus Center Lab), or by sending an electronic mail message to the Help Desk computer account AXHELP@UAA.Alaska.edu.

HELP DESK

CTS also operates a telephone Help Desk which can be reached at (907) 786-4646. The Help Desk operates from 8am-5pm Monday through Friday with longer hours during Spring and Fall semesters. Students, faculty, and staff may call the CTS Help Desk for assistance. The Help Desk provides information on microcomputer and academic computer system usage; answers software, network, Internet, system status questions; and trouble shoots and reports communications and academic computing system problems.

COMPUTER ACCOUNTS

To access the academic computer system, students, faculty, and staff must obtain an account on the academic system. To access a computer account via a modem also requires a dialup account. Academic computer system accounts have full access to the Internet. Dialup accounts can access the Internet via PPP connections.

Computer account applications can be obtained and turned in at the Library, LRC, Campus Center, or ESB computer labs. Students at extended colleges should contact their campus computing coordinator. Current students need to show a registration receipt indicating that they have paid their tuition for the semester and some form of picture ID. Faculty and staff need to show a current employee ID card and a piece of ID with an employee number on it to obtain a computer account.

COMPUTING RESOURCES

The current computing configuration consists of two DEC ALPHA 2100 servers.

The ALPHA 2100 server, known as CWOLF, runs Open VMS with approximately 21 gigabytes of disk storage, 512 MB memory, and 4MM DAT device. The software available on this system includes: SAS, BASIC, MACRO, FORTRAN, COBOL, Pascal, C, C++, Minitab, TeX, Pine E-Mail, Internet utilities, and the TPU editor. Other utilities and software can be accessed via the SETUP command. For more information on SETUP, type HELP SETUP at the $ prompt.

The ALPHA 2100 servers, known as URSA, runs Digital UNIX with approximately 6 gigabytes of disk storage, 512 MB memory, and a 4MM DAT device. The software available on this system includes: SAS, SPSS, BASIC, FORTRAN, COBOL, C, C++, Ada, Pascal, Minitab, Mathematica, and the nu/TPU editor.

In addition to the on-campus facilities there is 24-hour on- and off-campus modem access. The on-campus modem number is 3200 and the off-campus number is 562-0200. There are 48 modem lines which are 33.6 kps and 32 modem lines which are 14.4 kps. Communication equipment and settings needed include VT series (100 or higher) terminal emulation, 8 data bits, 1 stop bit, no parity and full duplex.

There are line printers located in the LRC lab, in the Library lab, and just outside the Library entrance. These line printers are available to students, staff, and faculty for small to moderate sized print jobs. Large print jobs should be scheduled with Computer Operations by calling (907) 786-1884.

Test scanning and scoring services are available for faculty upon request. Please call Computer Operations at (907) 786-1884 for more information.

FINE AND PERFORMING ARTS FACILITIES

ARTS BUILDING

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

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

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

WENDY WILLIAMSON MEMORIAL AUDITORIUM AND LECTURE HALL

Built in 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) 786-1560.

FOOD SERVICE

A variety of food services and menu options is provided in five campus dining areas: The Wolf Den and Subway located in the Campus Center, a cafeteria and a dining room located in the Cuddy Center (reservation line: 786-1122), and a residential dining facility located in the new housing Commons.

UNIVERSITY POLICE DEPARTMENT

The University Police Department is present 24 hours a day, 7 days a week, to provide safe access to the campus, to prevent disruptive behavior, and to offer a variety of services to the community. The department employs dispatchers and uniformed police officers to accomplish these goals.

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

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

The University Police Department can be contacted by calling (907)786-1120 from an off-campus phone or by dialing X1120 on an in-house phone. In the event of an emergency the department can also be contacted by utilizing one of the 11 exterior emergency call boxes or by picking up any elevator phone, either of which will automatically route your 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 citing 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 state law and officers will enforce these statues.

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 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 8am to 5 pm, Monday through Thursday, and from 8am 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 are maintained on campus. University Police accepts lost items that are valued at $250.00 or more, wallets and keys. To check for a lost item or to recover found property, contact the University Police Department, Eugene Short Building at (907) 786-1120.

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.

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 new 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, telephone lines, and direct ethernet connections to the university's computer network and the world wide web.

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.

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

Students are responsible for their own insurance needs. Health insurance is mandatory for international students on student visas.

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

SUPPLEMENTAL STUDENT ACCIDENT AND ILLNESS INSURANCE

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

OTHER INSURANCE

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

STUDENT LEADERSHIP

Student Leadership coordinates leadership training for student leaders involved with student government, clubs, and other leadership positions. Students are assisted in understanding the role and benefits of leadership involvement at the University, 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 recognize new clubs and appropriately fund and support individual clubs. Each club has one representative on the Club Council.

The University of Alaska Anchorage has over 80 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, as well as 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.

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 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, Board of Regents, community, or 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.

STUDENT UNION PROGRAMS AND SERVICES

The Student Union Programs and Services department is the central contact point for hundreds of exciting programs, activities, and leadership opportunities.

The department provides students with social, recreational and educational activities, in addition to advising the student radio station, student newspaper, concert program, Bartlett Lecture Series, and Student Showcase. Students are hired to manage and coordinate programs whenever possible.

The Campus Center houses the Student Union Programs and Service Offices and is the hub of campus cocurricular activities. It includes an information desk, lounge, food services, study room, computer rooms, video games, an art gallery, banking services, the student government office, and the Dean of Students' Office. The information desk provides student identification cards, Carrs Tix, outdoor recreation equipment rental, and many other services.

STUDENT ACTIVITIES

If you are looking for campus life, UAA Student Activities offers an incredible season of events and programs you are sure to enjoy. You can see national known musicians and entertainers perform weekly in the Campus Center Pub or Wendy 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. For more information, call (907) 786-1219, or stop by the Campus Center, Room 223.

STUDENT NEWSPAPER

The Northern Light, UAA's student newspaper, employs 30 student journalists and staff members. The staff publishes 23 weekly issues during the academic year and distributes 5,000 copies throughout campus and the community. The student newspaper seeks to provide information and news regarding the campus community. Get involved! The Northern Light invites everyone to express his/her concern about the campus in the form of a letter to the editor. For more information call (907)786-1318 or stop by Campus Center 215.

STUDENT RADIO STATION

KRUA 88.1 FM, the University radio station, broadcasts a variety of programming in an alternative format. Reggae, heavy metal, industrial, rap, jazz, and blues are but a few of the musical styles offered to listeners. KRUA is on the air every day from 7:00 a.m. to 1:00 a.m.

KRUA has more than 100 staff and volunteers who work on the air as announcers, news anchors, or sportscasters, and behind the scenes in the production or music departments. No broadcasting experience is necessary to participate; hands-on training is provided. KRUA provides an opportunity for students to learn and perfect technical skills as well as take responsibility for managing programs. For more information call (907)786-1098.

STUDENT SHOWCASE

Student Showcase is the University's annual academic conference. Students from all fields and disciplines are chosen to present their papers and projects before leaders and members of the University and community. Students whose works achieve a high level of excellence will receive cash awards and may have their works published in the Student Showcase Journal. If you would like to gain experience in public presentations, enhance your resume and possibly see your work published, Student Showcase is for you. Call (907) 786-1052 for more information on the Student Showcase program.

CHAPTER 6

COMMUNITY AND CONTINUING EDUCATION

Registration
Developmental Education
Chugiak-Eagle River Campus
Distance Education
Education Services for the Military
Alaska Wilderness Studies
Continuing and Professional Education
Mining and Petroleum Training Service
North Pacific Fisheries Observer Training Center
Physical Education and Recreation
Summer Sessions

COMMUNITY AND CONTINUING EDUCATION

The Community and Technical College provides instructional programs, activities, and curricula that extend the resources of the university to the lifelong learning needs of the community. The Community and Technical College serves the university and the people of Alaska by:

—coordinating with units of the University of Alaska to provide courses to degree-seeking students within identified populations at off-campus locations or within time frames designed to make education more accessible;
—ensuring the delivery of quality continuing education to professionals and the community;
—providing instruction and services for under-prepared and at-risk students;
—providing innovative instructional formats and support services in the form of course delivery systems, student services, equipment, facilities, and expertise to faculty, students and the public; and
—providing cultural and community services programs.

The College's strength originates from serving a diverse population in a manner which encourages all students to develop their unique skills and talents. The College's stature is derived from a dedication to quality of service, equity, accountability to all constituents, and efficiency of operation.

REGISTRATION

The Community and Technical College offers ongoing registration. Students may register from the time a course is announced up 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 8:30 am and 4:30 pm (907) 786-6721, or the Chugiak-Eagle River Campus at the Eagle Center (907) 694-3313.

DEVELOPMENTAL EDUCATION

Developmental Education offers a variety of programs and classes for non-traditional and at-risk students at UAA. The Department offers English, Math, and English-as-a-Second Language classes which prepare students for General Education courses. Instruction includes many alternative means of delivery including guided studies math course, peer tutoring, computer support, workshops, individual assessment, reading and writing for learning-disabled students, beginning ESL, telecourses, coordinating Credit for Prior Learning and interdisciplinary programs.

Guided studies math classes insure mastery of required course material. Classes incorporate in-class lectures with the instructor, work in the math lab with the instructor and certified tutors, untimed testing in the math lab at the student's convenience, and the ability to retake chapter tests. Other resources available are computer software, videotapes, audiotapes, workshops, and calculator training.

Developmental English classes include Slingerland instruction for learning-disabled students in reading and grammar, one and two credit classes on vocabulary, spelling, grammar, and writing, and three credit composition and reading courses. Survival skills courses help students succeed on campus and in the classroom. Developmental Education offers ESL courses that are a bridge between classes at the Adult Learning Center and college level courses.

Interdisciplinary programs such as Smart Start and Step Up provide collaborative instruction in math, writing, reading, and survival skills. These classes are team taught by a cadre of developmental educators and tutors and provide a high degree of support for at-risk students.

CHUGIAK-EAGLE RIVER CAMPUS

Located in the community of Eagle River, ten miles north of Anchorage, this extended site focus 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 http://www.uaa.alaska.edu/eagle.

DISTANCE EDUCATION SERVICES

In the electronic age, students may learn through many and varied media, and University of Alaska courses may be delivered in any number of ways. Since all courses are approved by appropriate academic departments and faculty groups and meet standards of accreditation, no distinction is made among the various delivery modes in terms of a course's acceptability for meeting degree program requirements. It is the student's responsibility to obtain advice regarding the applicability of any particular course to meet a specific degree requirement. Credits received by examination or for prior learning are subject to different rules (See elsewhere in this section.).

Distance Education Services offers taped telecourses, live teleclasses, facilitation of satellite-delivered videoconferences, coordination of UAA teleconferencing, and programming for Prime Cable Channel 42. Distance Education Services can be reached at (907) 786-4488.

Teleconferences - allow participation in live interactive meetings or seminars conducted among people at different locations. UAA has joined with the National University Teleconference Network, PBS Adult Learning Satellite Service, and other training agencies to offer coverage of a wide range of topics presented by nationally recognized leaders.

Live Teleclasses - allow students at locations throughout Alaska to actively participate in live teleclasses originating on a university campus. Students are connected by satellite-delivered one-way video and two-way audio. Live teleclasses are carried on Alascom's Aurora II satellite for rural students, and on Prime Cable Channel 42 within the Anchorage Bowl.

Telecourses - college-level credit courses offered in televised format. Courses can be viewed on Channel 7/KAKM, on Channel 42/Anchorage Telecampus, or on tape at video tape check--out sites. Telecourses include video lessons, a textbook, a study-guide, learning exercises, and exams. Most course work can be completed at home. Students communicate with faculty via telephone, in person, e-mail, or fax.

University of Alaska Learning Cooperative (UALC) - The UALC is an organization of representatives from throughout the University system which is responsible for coordinating UA's distance education programs towards the accomplishment of common goals. The UALC supports efforts to make more courses and programs available to students away from Alaska's urban centers through the use of instructional technology and by encouraging collaborative delivery of these programs among UA units. The UALC also supports the use of alternative methods of instruction to meet the needs of students for whom regular campus-based programs are impossible, due to the demands of employment, family or community commitments. The UALC Bulletin contains information about programs which are available to students throughout the state, regardless of where the students live, and about additional courses and sections available to students through non-traditional means.

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 and Fort Wainwright Army Post outside of Fairbanks
—Fort Greely Army Post outside of Delta Junction

Educational programs are also provided at Adak Naval Air Station and Clear Air Force Station. 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 SOCAD network: training and experience are evaluated for applicable credit. Classes are delivered via traditional classroom instruction, videotape course delivery, and live interactive satellite delivery (LIVENET). 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 housed in Building 21-590, Lemon 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 Greely

Fort Greely Army Post, located in Delta Junction, offers courses 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) 869-3070.

Fort Wainwright

The Fort Wainwright Education Center is located in Building 2110 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 Masters of Public Administration. For more information, call (907) 353-6395.

SPECIAL PROGRAMS AND TRAINING:

ALASKA WILDERNESS STUDIES

Alaska Wilderness Studies (AWS) provides hands-on education through the use of adventure and the outdoors. AWS offers more than 50 credit and non-credit classes covering topics such as backpacking, mountaineering, rock and ice climbing, sea kayaking, skiing, wilderness first aid, and Alaska natural history. AWS also offers the National Standard Program in Wilderness Leadership through the Wilderness Education Association and a Wilderness Emergency Medical Technician certificate through the Wilderness Medical Association. AWS is one of only a handful of programs nationwide accredited by the Association for Experiential Education. For more information, call (907) 786-4066.

CONTINUING AND PROFESSIONAL EDUCATION

Continuing and Professional Education 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 arranges. Programs are developed through partnerships with professionals in the community, public and private agencies and organizations, and academic faculty.

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

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 a vibrant and exciting segment of the Community and Technical College's commitment to meeting the ongoing need for vocational training in the state.

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 http://www.uaf.alaska.edu/otc.

PHYSICAL EDUCATION AND RECREATION

Physical education provides the community with an opportunity for rounding out the whole person through physical fitness and recreation. Emphasis is on acquisition of skills and habits for a lifetime of wellness. Over 60 credit courses ensure a class for every interest and skill level. In addition to a fitness instructor training program, course topics include aerobics, team sports, lifeguarding, martial and Eastern arts, racquet sports, skating, swimming/aquatics, and weight training. For more information, call (907) 786-4066.

SUMMER SESSIONS

The Summer Sessions department coordinates the summer semester offerings for UAA. In addition to core curriculum and popular department courses, many unique programs are offered, including courses taught by Alaska Native scholars, a children's Summer Theatre Workshop, an advanced program for high school students, and over 400 course offerings aimed at undergraduate and graduate students. For more information, 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
University of Alaska Center for Economic Development

ALASKA SMALL BUSINESS DEVELOPMENT CENTER

The Alaska Small Business Development Center is a cooperative program of the US 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 five regional centers located in Anchorage, Fairbanks, Juneau, Wasilla (serving the Matanuska-Susitna Borough area) and Kenai (serving the Kenai Peninsula area), in addition to a rural outreach program.

Other business assistance programs administered include the Procurement Technical Assistance Center which provides assistance with government contracting; the BUY ALASKA program which provides free in-state sourcing for buyers and sales referrals to suppliers; the Alaska Technology Transfer Center which provides the Small Business Innovation Research (SBIR) proposal assistance and technical data base searches to businesses; and in partnership with Industry Network Corporation, a manufacturing extension program which provides assistance to small and medium sized manufacturing companies.

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 US and Russian companies.

ARC has centers in Khabarovsk, Sakhalin, Yakuisk and Magadan which offer business training programs. These centers have limited capability to support UAA personnel and US 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 people 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, Commersant 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 US 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 crosscultural 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 includes conferences and special workshops for substance abuse and 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 elementary education classes and to provide workshops for educators in the Anchorage and southcentral Alaska area. It also provides educational materials and other assistance to individuals 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 people who experience developmental and other persistent disabilities and their families. The Center serves as a liaison between the academic world and the service delivery system. We collaborate with a variety of state agencies and community providers to support independence, productivity and integration into the community of individuals who experience developmental disabilities and their families through the following:

- Interdisciplinary training
- Community training and technical assistance
- 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 2330 Nichols Street (on Northern Lights near Bragaw), phone 272-8270, and fax 274-4802.

ENVIRONMENT AND NATURAL RESOURCES INSTITUTE

The Environment and Natural Resources Institute (ENRI) traces its history to 1972, when the Alaska legislature established the Arctic Environmental Information and Data Center (AEIDC) within the University as a referral and applied research center focusing on Alaska's natural resources. Today ENRI incorporates not only AEIDC, but also the Alaska State Climate Center (ASCC), the Alaska Natural Heritage Program (AKNHP), and Resource Solutions. It provides hands-on educational opportunities and a unique range of services including applied science investigations, environmental and natural resource policy analysis, information transfer, and interpretation and communication of scientific knowledge. ENRI 's chief purpose is to conduct scientific research and provide information and data in support of decision making and policy formulation concerning Alaska's natural resources and environment. It fosters an interdisciplinary research approach that leads to frequent collaboration among its own scientists and others throughout the University system; students are involved whenever possible.

Each of ENRI's major program components compiles data and information that is made available to the public and private sectors. AEIDC houses unpublished and difficult-to-find literature that focuses on environmental and natural resources topics, but it also includes some publications of general historical interest to northern researchers. Its collections encompass 11,500 government publications and microforms, 8,800 bound volumes, and 95 periodical and newsletter titles. ASCC provides information and data on Alaska's climatology and meteorology, and an ENRI scientist serves as the Alaska state climatologist. AKNHP develops and maintains a dynamic biological data base on rare and significant Alaska species, habitats, communities, and ecosystems that is useful in land development planning, environmental permitting, resource management conservation, and endangered species review. Resource Solutions is a new program designed to help build agreement, resolve conflicts, and facilitate informed decision making concerning Alaska's natural resources. It provides information on and services relating to public involvement programs, consensus building, partnering, planning, and conflict mediation.

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 multi-cultural environment calls for a multi-disciplinary 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, and faculty from the College and other parts of the university take part in ISER research projects. The institute provides opportunities for student involvement through internships and research assistantships.

JUSTICE CENTER

The Justice Center contributes to the improvement of justice administration in Alaska through research, education, and community service. Formed in 1975, the Center's mission is to improve understanding of the justice system throughout rural and urban Alaska. Center staff conduct research in crime, law, policing, and the administration of civil and criminal justice.

The research mission is addressed through routine data collection efforts in support of the Alaska Judicial Council judicial retention surveys, jail monitoring on behalf of the Division of Family and Youth Services, and reporting University of Alaska Anchorage and Southeast crime and arrest statistics. The Justice Center also completes special studies on a variety of justice topics. Recent clients include the Alaska Department of Corrections, the Togiak Police Department, and several agencies of the US Department of Justice.

The education mission is addressed through degree programs and through media that target larger audiences in Alaska. The Justice Center offers a Bachelor of Arts degree in Justice, an American Bar Association approved Paralegal Certificate, and a Criminal Justice cognate in the Masters of Public Administration degree program. Public education is addressed through: the quarterly *Alaska Justice Forum*, justice videos, speakers for local audiences, and the Justice Center web site at: http://www.uaa.alaska.edu/just/.

The Justice Center contributes to the administration of justice in Alaska through service to the local community and through disciplinary committees. Service to the local community takes the form of participation on advisory boards and management support to a number of non-profit organizations. Service to disciplines includes membership on editorial boards and participation in the governance of regional and national professional associations.

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 Commerce and Economic Development and the Alaska Department of Community and Regional Affairs.

Chapter 8

Academic Policies

Academic Appeals
Academic Petition
Academic Standing
Access to Student Records
Age Limit of Credits
Cheating
Class Attendance
Class Standing
Corequisites
Commencement
Correspondence Study
Credit
Directed Study
Faculty-Initiated Withdrawals
Full-Time/Part-Time Status
Good Standing
GPA and Student Activities
Grading
Graduation Application
Graduation with Honors
Honors List
Independent Study
Non-Traditional Credit
Prerequisites
Recommendations
Repeating Courses

ACADEMIC APPEALS

Students shall have the right to appeal academic actions. A written request for appeal must be made to the dean/director of the appropriate school or college not later than 15 working days following notification of the action under review. The request shall set forth clearly and concisely the action to be reviewed, the reason the student believes the action was inappropriate, and the corrective action the student seeks.

As a general rule, the dean/director will not overturn the action of a faculty member or committee unless it is shown to be arbitrary and capricious, clearly erroneous, or based on unlawful discrimination.

Each student requesting review of an academic action shall be entitled to address the dean/director directly if desired before the decision is rendered by the dean/director. Whenever possible, the dean/director's decision will be rendered and conveyed to the student in writing within 5 days of receipt of the student's request for review. Until receipt of the dean/director's decision, the student will be permitted to attend classes unless such attendance poses a danger to the student or others. There shall be no further appeal of academic matters within the University.

For removal from a major program or loss of baccalaureate degree-seeking status only, the decision of the dean/director shall be appealable to the Provost. The student must submit a written appeal to the Provost within 3 days of receipt of the dean/director's decision. Whenever possible, the Provost's decision shall be rendered and conveyed to the student within 5 days. There shall be no further appeal within the University.

These two processes for academic appeal to the dean/director and to the Provost constitute the final decision of the University of Alaska Anchorage on these matters. If a student wishes to seek judicial review of this administrative agency decision, he/she must file an appeal with the superior court for the state of Alaska within 30 days of the decision in accordance with Alaska Appellate Rule 602 (a) (2).

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.

ACADEMIC STANDING

Good Standing

Undergraduate students are in good standing when they have a 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 satisfactory academic standing. Students are presumed to be in good standing during their first semester at UAA.

Academic Action

Certificate, associate, baccalaureate degree-seeking students who fail to earn a 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 also 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

Continuing 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 his/her cumulative GPA to 2.00 or lose their certificate, or undergraduate degree-seeking status.

LOSS OF CERTIFICATE OR UNDERGRADUATE DEGREE-SEEKING STATUS

Removed from Degree Program is the status assigned to students who begin a semester on academic probation or continuing probation and fail to earn a semester GPA of at least 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 may not qualify for financial aid or the international student form I-20A. Students must apply for reinstatement to UAA (see reinstatement policy).

REINSTATEMENT

Students who have lost certificate or undergraduate degree-seeking status are allowed to register 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 from 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 process form 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 FERPA Office about alleged failures by the institution to comply with the Act.

UAA 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.

CHEATING

Cheating is not tolerated at the University of Alaska Anchorage. It constitutes grounds for dismissal from the University. Cheating is defined as any means by which a student uses unauthorized assistance to prepare materials submitted as his/her own. Refer to Academic Dishonesty in Chapter 5 of this catalog or to the Student Handbook for specifics.

CLASS ATTENDANCE

Regular attendance and active participation are expected in all classes. Students are responsible for classwork 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:

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

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

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.

CORRESPONDENCE STUDY

Within the University of Alaska system, correspondence study is administered through the University of Alaska Fairbanks campus. The UAA Advising and Counseling Center has brochures and registration forms for this program and can proctor exams. For further information, go to the Business Education Building, Room 115, or please call (907) 786-4500.

CREDIT

RESIDENT CREDIT

Resident credit is defined as credit earned in formal classroom instruction, directed study, independent study, research, and telecourses offered by the University of Alaska Anchorage. All other courses are defined as non-resident credit, including transfer credit, non-traditional credit, correspondence study, and 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.

ACCREDITED COLLEGES/UNIVERSITIES

1. Transfer credit is accepted only from institutions in the United States fully accredited by one of the following regional accrediting associations:
   —Middle States Association of Colleges and Schools
   —New England Association of Schools and Colleges
   —North Central Association of Colleges and Schools
   —Northwest Association of Schools and Colleges
   —Southern Association of Colleges and Schools
   —Western Association of Schools and Colleges
2. Only college-level 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. Grades of "D" received at UAF or UAS will transfer to UAA providing the student has a 2.00 or higher cumulative GPA at the institution where the "D" was received.

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 agencies. Accreditation by such agencies, recognized by the U.S. Department of Education, demonstrates that the institution operates within commonly accepted standards of instruction. Credits from unaccredited institutions are not normally accepted.

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

The general education requirements for baccalaureate degrees from the University of Alaska system are required by university regulation to have a common core of course work totaling a minimum of 34 credits. These include:

Category	Credit Hours
Written Communications	6
Oral Communications	3
Humanities/Social Sciences/Fine Arts	15
Quantitative Skills/Natural Sciences	10
Total	34

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

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

DIRECTED STUDY

A Directed Study course is a permanent catalog course delivered on an individual basis when the course is not offered that semester. The policies are as follows:

1. Retroactive registration not permitted.
2. Forms not correctly completed will not be processed.
3. Courses scheduled for less than a full semester may not be offered for more than one (1) credit each week.
4. The deadline for directed study registration is the end of the ninth week of the fall and spring semesters.
5. There can be no change in the basic content of the course. In particular, this means the number, level, prefix, description, title, grading policy (A-F, P/NP), credits, and course content cannot differ from the permanent course.
6. Only permanent or term faculty are allowed to supervise or to be the Instructor of Record for Directed Study courses. Deans and Directors may function as Instructor of Record when no permanent or term faculty are available to fulfill that function. The responsibilities of the Instructor of Record are: a) see that the grades are turned in to Enrollment Services; b) see that the material is presented in full in a timely manner; c) approve the course of study; d) approve the credentials of other faculty involved; e) agree to assume responsibility if problems arise.

7. The faculty member must have taught the permanent course or a related course prior to teaching a directed study.
8. The initiation of directed studies must come from the faculty in the discipline.

FACULTY-INITIATED WITHDRAWALS

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

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

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

Add/drop 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 extracurricular activities 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 within limits that will allow them to achieve satisfactory academic performance.

GRADING

The grades that can 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.

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.

General Education Requirements (GER), school or college requirements and courses in a student's major or minor are not allowed under this option. 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 legitimate error has been made on the part of the faculty member. Corrections of grading errors must be made by the end of the semester (excluding summer) 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 or staff designee. Change of Grade forms will not be accepted if submitted to Enrollment Services by the student.

GRADE POINT AVERAGE COMPUTATION (UAA GPA)

UAA uses the 4-point system as a measure of scholastic success. The grade point average (GPA) is computed by dividing the total cumulative quality grade points earned (Q Pts) at UAA by the total quality hours attempted (Q Hrs).

Credits accepted in transfer are not used to calculate the student's UAA GPA. They are, however, used to calculate the student's overall GPA for graduating with honors. Grades and credits earned from all repeated courses are also included in calculating the student's GPA for graduating with honors. Academic letter grades carry the following grade points:

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

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", and "NP". In addition, "AU" and "W" are not grades and are not used in GPA calculations. (See Grading.)

INCOMPLETE GRADE

An "I" (Incomplete) is a temporary grade. It is used to indicate that a student has made satisfactory progress in the majority of the work in a course, but for unavoidable absences or other conditions beyond the control of the student, has not been able to complete the course. The Incomplete Grade Contract, a signed contract form between the student and the faculty member that stipulates the assignment(s) required to finish the course, is required and must be completed for each "I" grade assigned and is to be maintained in the department or dean's office. Course work must be completed by a date specified in the contract, not to exceed one year. Upon completion of the required course work, the faculty member must submit a change of grade form to Enrollment Services. If course work is not completed within one year or if the terms specified on the Incomplete Contract are not met, the student may be assigned a failing grade (F or NP, depending on the grading basis of the course). If course work is not completed within one year and the faculty member does not submit a change of grade at that time, the "I" will become a permanent grade and it will be necessary for the student to re-register to obtain credit for the course.

PASS/NO PASS

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

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

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

GRADUATION APPLICATION

UAA issues diploma 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 submit an Application for Graduation and the $20 fee to Enrollment Services by the end of week 2 of the semester. Students must obtain their advisor's signature on the application form. Application for Graduation forms are available from Enrollment Services.

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.

Applications for Graduation received after the deadline are processed for graduation the following semester. 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 $20 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.

Grades and credits earned from all repeated courses are included in determining eligibility to graduate with honors.

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

Students maintaining exceptional academic achievement are recognized after the fall, spring, summer semesters on the Dean's List and the Chancellor's List. Names of students appearing in the UAA Dean's List and the Chancellor's List are released to the media; also, names and addresses of honor students are provided to the National Dean's List Publication unless a written request not to do so has been received by Enrollment Services.

THE CHANCELLOR'S LIST

To be eligible for the Chancellor's List, a student must be an admitted undergraduate degree/certificate seeking student enrolled in at least 12 UAA credits graded with academic letter grades and must have earned a GPA of 4.00 for the semester. Regardless of the number of credits a student is enrolled in, temporary grades of "I" (incomplete) or "DF" (deferred) will prevent a student from being eligible for the Chancellor's List until course work has been completed and the "I" or "DF" is replaced by a final grade.

THE DEAN'S LIST

To be eligible for the Dean's List, a student must be an admitted undergraduate degree/certificate seeking student enrolled in at least 12 UAA credits graded with academic letter grades and must have earned a GPA of at least 3.50 for the semester. Regardless of the number of credits a student is enrolled in, temporary grades of "I" (incomplete) or "DF" (deferred) will prevent a student from being eligible for the Dean's List until course work has been completed and the "I" or "DF" is replaced by a final grade.

INDEPENDENT STUDY -97

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

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

NON-TRADITIONAL CREDIT

Non-traditional credit evaluations are available for accepted degree-seeking UAA students. These allow students who have gained knowledge and skills through work and other life experiences to gain credits for equivalent UAA courses. Documenting military or occupational training, taking local or national examinations, and developing portfolios for faculty review are some of the methods used. The specific processes are listed below.

LANGUAGE CREDIT BY PLACEMENT

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

CERTIFIED EXPERIENCE CREDIT

This program allows crediting of certified but not accredited institution-sponsored learning. The University may award elective credit or specific course credit by petition or departmental agreement.

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, State Corrections Academy, 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, and U.S. Paramedic licensure.
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. Contact the UAA Prior Learning Coordinator in The Learning Resources Center for more information.

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 1 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 261/262

BIOLOGY.....BIOL 102/103+ 4 credit lower-division biology elective

CHEMISTRY.....CHEM 105

COMPUTER SCIENCE.....CS 201/202

ECONOMICS
Macroeconomics.....ECON 201
Microeconomics.....ECON 202

ENGLISH
Language and Composition .....ENGL 111
Literature and Composition .....ENGL 121

FRENCH
Level 3: French Language.....FREN 101/102
Level 3: French Literature.....FREN 201/202

GERMAN
Level 3: German Language.....8 credits lower-division German elective

GOVERNMENT AND POLITICS
American Government and Politics .....PS 101
Comparative Government and Politics .....PS 102

HISTORY
American History.....HIST 131/132
European History .....HIST 102

LATIN
Virgil .....4 credits lower-division Latin elective
Catullus-Horace.....4 credits lower-division Latin elective

MATHEMATICS
Calculus AB .....MATH 107/108/200
Calculus BC.....MATH 107/108/200/201

MUSIC
Music Theory .....MUS 111
Music Listening and Literature .....MUS 121

PHYSICS
Physics B .....PHYS 123
Physics C.....PHYS 211

Psychology.....PSY 111

Spanish
Level 3: Spanish Language.....SPAN 101/102
Level 3: Spanish Literature.....SPAN 201/202

COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)

An Official CLEP Transcript must be submitted to Enrollment Services.

1. General Exams

UAA awards up to 24 credits for CLEP general exams to students who earn a score of 500 or higher.

Credit for CLEP general exams are awarded according to the following standards:

English.....No credit awarded

English Composition with Essay .....ENGL 111 for 500+ score
(Meets UAA GER Written Communications Requirement)

Mathematics .....3 credits for 500+ score

Natural Sciences .....BIOL 102 for 500+ score + 3 credits elective
(Meets UAA GER Natural Sciences Requirement without lab).....3 credits elective

Humanities .....6 credits for 500+ score
(Meets UAA GER Humanities/Fine Arts Requirement)

Social Sciences/History.....6 credits for 500+ score
(Meets UAA GER Humanities/Social Sciences Requirement)

Students must request that an official report of exam scores be sent to Enrollment Services.

Examinations may not be repeated earlier than 6 months.

2. Subject Exams

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

Students must request that an official report of exam scores be sent to Enrollment Services.

Examinations may not be repeated earlier than 6 months.

DANTES/USAFI EXAMINATIONS

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

ACT-PEP EXAMINATIONS

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

ACT (ENGLISH COMPONENT) OR SAT (VERBAL COMPONENT)

Students should be aware that any score more than two years old from the test date to when the student enrolls in any English course is considered out of date. Cut-off scores reflect national norms and are subject to change.

A student who has earned an appropriate ACT English or SAT Verbal score is eligible to enroll in ENGL A111. Appropriate scores are as follows:

Exam	Score
ACT English	22-29
SAT Verbal	530-619

A student who can show proof of a score of 30+ on the ACT English or 620+ SAT Verbal score may elect not to take ENGL A111 and may enroll in ENGL A211, A212, or A213. If the student earns a score of "B" or higher in ENGL A211, A212, or A213, UAA waives the requirement of ENGL A111. It is the student's responsibility to notify Enrollment Services in writing of the appropriate completion of the 200-level English course.

A student who has not earned the appropriate scores on either test must contact UAA's Advising & Counseling Center for English Placement testing prior to enrolling in any English courses.

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

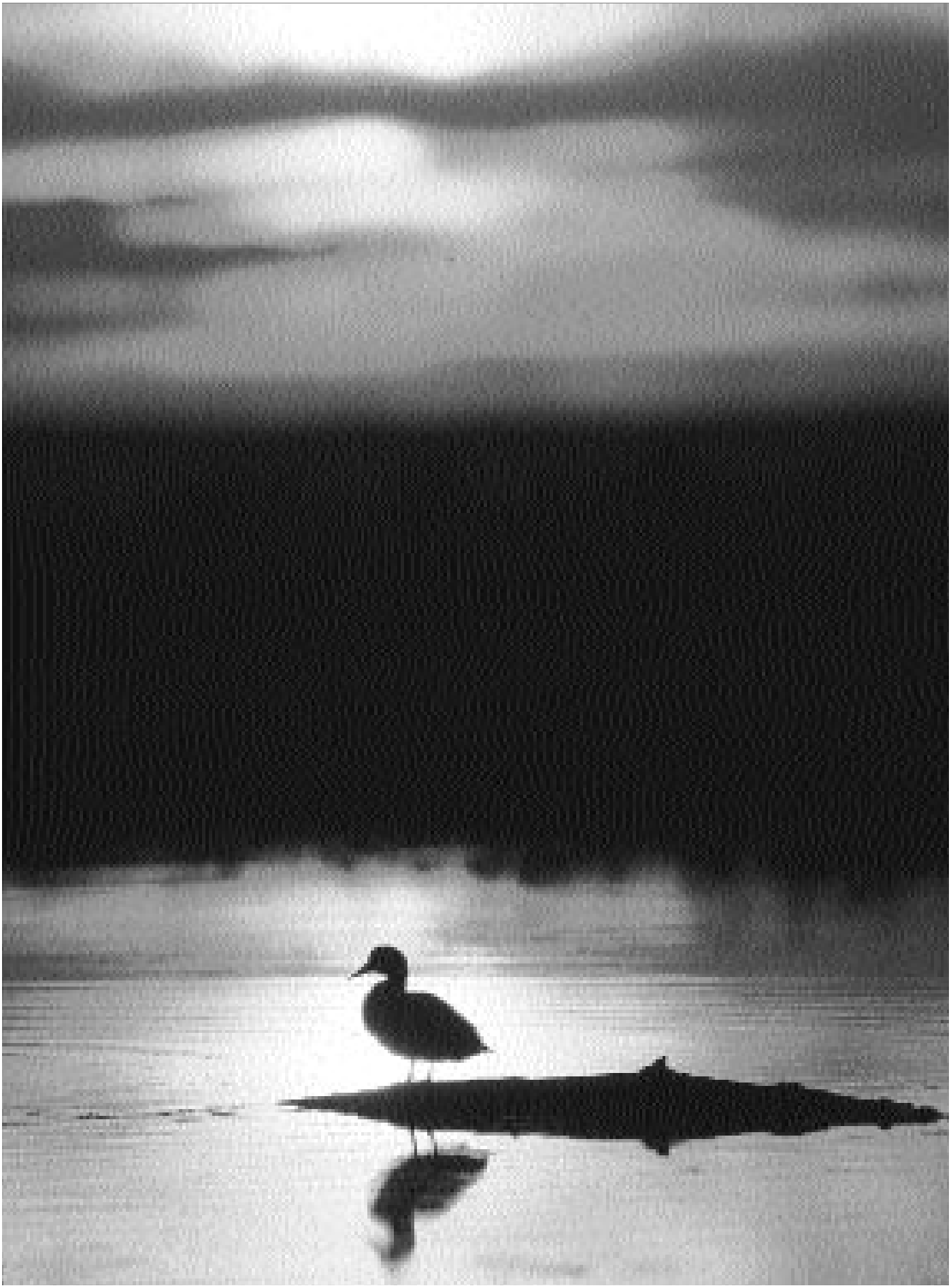
Students who have successfully completed the courses listed as recommended will be better prepared to take the course. However, it is possible for students to successfully complete the course without having taken the recommended courses.

REPEATING COURSES

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

All courses may be repeated for student GPA improvement. Previous courses and grades will remain on the student's transcript, but only the credits and last grade earned are applied toward graduation requirements and calculated in the student's cumulative UAA GPA. The Credit/No Credit grading option cannot be selected when courses are to be repeated for GPA improvement. Students may not repeat a course by credit-by exam, correspondence or through work at another college or university for the purpose of raising their grade point average at UAA.

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



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.

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 or SAT 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.

EXCEPTIONS FOR ASSOCIATE DEGREE AND CERTIFICATE SEEKING STUDENTS

Returning adult students who have been out of high school for more than 10 years may elect not to submit high school transcripts if they wish to enter as associate students. After completion of 30 semester credits, they may request a transfer of admission status to the baccalaureate level. Such requests are processed at no charge according to admission requirements for baccalaureate programs. Associate degree and certificate students may substitute ASSET results for ACT or SAT test scores as well.

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.

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.

INTERNATIONAL STUDENTS

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

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

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

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

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

Health insurance is mandatory for international students on student visas.

RETURNING STUDENTS

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

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

An admitted degree-seeking student who attends another institution (outside of the UA system) following the semester of admission is not eligible for an update of admission status unless one or more of the following criteria have been met:

- Prior department approval via petition to take classes at another institution(s).
- Enrollment at outside institution was concurrent with UAA enrollment.
- Enrollment occurred during summer semester.
- Enrollment was correspondence courses.
- Student participated in a National or International Student Exchange.
- Student is participating in the SOCNAV/SOCAD military programs.
- Outside institution was unaccredited at time of attendance.
- Outside institution was Community College of the Air Force or Regents College.

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.

CHANGING MAJORS AND DEGREE PROGRAMS: DECLARING MAJORS

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

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

Students must follow established UAA procedures for declaring a major and, if necessary, for changing a major or degree. Students who change their major or degree must satisfy the catalog requirements for the new major or degree in effect at the time of the change.

CERTIFICATE AND ASSOCIATE DEGREE PROGRAMS ADMISSION REQUIREMENTS

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

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

APPLICATION FORM AND FEE

Applications may be obtained from Enrollment Services. A non-refundable application fee of $35 must be submitted with each application.

Some certificate and associate programs have additional requirements. Consult the individual program sections of this catalog.

ADMISSION ON PROBATION TO ASSOCIATE DEGREE-SEEKING STATUS

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

BACCALAUREATE DEGREE PROGRAMS ADMISSION REQUIREMENTS

To qualify for initial admission to baccalaureate degree-seeking status, a student 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 or ACT test, or
2. Successful completion of the GED and completion of either the SAT or ACT 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.
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 15 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 admission to a certificate program or the catalog in effect at the time of graduation. However, if the requirements for a certificate as specified in the entry-level catalog are not met within 5 years of formal acceptance into the program, the student must meet the requirements in effect at the time of graduation.
5. Students may earn more than one certificate by completing all requirements for each additional program.

GENERAL UNIVERSITY REQUIREMENTS FOR ASSOCIATE DEGREES

The Associate of Arts degree is intended to provide general education. Therefore, it includes no major specialty, and students may earn only one AA degree. The Associate of Applied Science degree is intended to provide specialized education. Therefore, it does include a major specialty, and students may earn more than one AAS degree. The following requirements must be met for associate degrees:

1. Students must earn a minimum of 60 credits for either an AA or an AAS degree.
2. Students must complete at least 15 credits in residence.
3. Students must earn a cumulative GPA of at least 2.00 (C) at UAA. Some associate degree programs require higher GPAs.
4. Students may elect to graduate under the requirements of the catalog in effect at the time of formal admission to a degree program or the catalog in effect at the time of graduation. However, 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, the student must meet the requirements in effect at the time of graduation.
5. 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.
6. All courses for an Associate of Applied Science degree must be at the 100-level or above.

CONCURRENT PROGRAMS OF STUDY

Double Majors. Associate degree-seeking students may apply to graduate (during the same semester) with two majors, providing the degree program is the same for each major. For example, a student may select two areas from the approved majors within the Associate of Applied Science degree program (such as Welding and Automotive Technology). Students must apply and be accepted into each major program.

Students may request a double major at the time of initial admission to UAA or add a major at a later date through the Change of Major degree process. Forms are available from Enrollment Services.

Students must satisfy the General University Requirements, the General Education Requirements, and both sets of major requirements.

Students must satisfy the catalog requirements in effect at the time of acceptance into the major(s) or the catalog requirements in effect at the time of graduation.

A double major is not applicable to the Associate of Arts Degree.

Double Degrees. Associate degree-seeking students may graduate (during the same semester) with two degrees provided they have applied to and been accepted in both degree programs. An Associate of Applied Science and Associate of Arts is an example of a double degree.

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

Associate degree-seeking students must complete the General University Requirements, the General Education Requirements for their primary program, the requirements for both major programs, and at least 12 resident credits beyond the total number of credits required for the primary degree.

Students must satisfy the catalog requirements in effect at the time of acceptance into the degree program(s) or the catalog requirements in effect at the time of graduation.

SECOND ASSOCIATE DEGREE

The Associate of Arts degree is intended to provide students with the education necessary to undertake baccalaureate degree work. Due to its general intent, only one AA 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 an associate 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 (AAS) GENERAL DEGREE REQUIREMENTS

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

Classification **Credits**

1. Oral Communications.....3
   COMM A111, Fundamentals of Oral Communication
   COMM A235, Small Group Communication
   COMM A237, Interpersonal Communication
   COMM A241, Public Speaking

2. Written Communications.....6
   ENGL A111, Methods of Written Communication
   and one of the following:
   CIOS A262, Written Business Communications
   ENGL A211, Academic Writing about Literature
   ENGL A212, Technical Writing
   ENGL A213, Writing in the Academic Disciplines

3. General Requirements.....6
   Choose one or a combination of Humanities*, Math, Natural Sciences, or Social Sciences courses. (See Associate Degree Course Classifications list below.) Courses chosen must be at the 100-level or above.

**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 (AA) 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 (AA) WITH BACCALAUREATE DEGREE GENERAL EDUCATION REQUIREMENTS LINK

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

ASSOCIATE DEGREE COURSE CLASSIFICATIONS

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

Applied Studies

- Accounting
- Agriculture
- Alaska Wilderness Studies
- Architectural and Engineering Technology
- Automotive and Diesel Technology
- Aviation Technology
- Business Administration
- Civil Engineering
- Computer Information and Office Systems
- Culinary Arts
- Dental Assisting
- Dental Hygiene
- Dietetics and Nutrition
- Early Childhood Development
- Education
- Electronics Technology
- Emergency Medical Technology
- Engineering Design and Drafting
- Engineering Science
- Engineering and Science Management
- English-As-A-Second Language
- Family and Consumer Sciences
- Fire Service Administration
- Fisheries Technology
- Floral Design
- Forestry Technology
- Geographic Information Systems
- Geomatics

Applied Studies (continued)
- Human Services
- Interior Design
- Journalism and Public Communications
- Justice
- Library Science
- Mechanical Technology
- Marine Technology
- Medical Assisting
- Medical Laboratory Technology
- Nursing
- Nursing Science
- Paralegal Studies
- Paramedical Technology
- Petroleum Engineering
- Petroleum Technology
- Refrigeration and Heating
- Social Work
- Technology
- Vocational Education
- Vocational Skills
- Wastewater Treatment
- Welding Technology

Humanities
- Alaska Native Studies
- American Sign Language
- Art
- Dance
- Chinese
- Communication
- Creative Writing and Literary Arts
- English
- French
- German
- History*
- Humanities
- Japanese
- Journalism and Public Communications (JPC A215 and A367 only)
- Korean
- Languages
- Latin
- Linguistics
- Music
- Philosophy
- Russian
- Spanish
- Theatre
- Women's Studies*

Math and Natural Sciences
- Anthropology (ANTH A205 only)
- Applied Statistics
- Astronomy
- Biological Sciences
- Chemistry
- Computer Science
- Geography (GEOG A205 and A205L only)
- Geology
- Mathematics (MATH A101 excluded)
- Philosophy (PHIL A101 only)
- Physics

Social Sciences
- Anthropology
- Business Administration (BA A151 only)
- Counseling
- Economics
- Geography (except GEOG A205and 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)
- Paralegal Studies (PARL A101 only)
- Political Science
- Psychology
- Social Work (SWK A106 only)
- Sociology
- Women's Studies*

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

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 "GER for Baccalaureate Degree" 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. 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.

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 require a higher UAA GPA in the major.
5. Students who have been accepted to baccalaureate degree-seeking status at UAA may elect to graduate under either the requirements of the catalog in effect at their time of acceptance into a degree program or the requirements of the catalog in effect during their year of graduation. If more than seven years have elapsed since the student's acceptance to degree-seeking status, the student must graduate under the catalog requirements in effect during the year of graduation.
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.

Double Degrees. Baccalaureate degree-seeking students may graduate (during the same semester) with two degrees provided they have applied for and been accepted in both degree programs. A Bachelor of Education degree and a Bachelor of Arts degree are examples of double degrees.

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

Baccalaureate degree-seeking students must complete the General University Requirements, the General Education Requirements for the primary program, both sets of school/college requirements, if applicable, major program requirements, and at least 24 resident credits beyond the total number of credits required for the primary degree before an additional degree can be awarded.

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 BACCALAUREATE DEGREE

UAA Students. Students who have received a baccalaureate degree from UAA and who want to obtain another baccalaureate degree must:

1. Meet admission requirements.
2. Complete at least 24 resident credits beyond the previous baccalaureate degree(s).
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).

Certain degree programs have designated more specific requirements from this list, so not every course listed below is applicable to every degree program. Students must refer to their specific degree programs to determine the General Education Requirements for their major. Courses ending with numbers __93 or __94 will not satisfy a GER.

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

Classification **Credits**

1. Oral Communications.....3
   Courses that fulfill this requirement are those which emphasize the acquisition of English language skills in orally communicating ideas in an organized fashion through instruction accompanied by practice. Courses completed at UAA must be selected from the following:
   COMM A111, Fundamentals of Oral Communication
   COMM A235, Small Group Communication
   COMM A237, Interpersonal Communication
   COMM A241, Public Speaking

2. Written Communications.....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 UAA must be selected from the following:
   ENGL A111, Methods of Written Communication
   ENGL A211, Academic Writing about Literature
   ENGL A212, Technical Writing
   ENGL A213, Writing in the Academic Disciplines

3. Quantitative Skills.....3
   Courses that fulfill this requirement are those which emphasize the development and application of quantitative problem-solving skills as well as skills in the manipulation and/or evaluation of quantitative data. Courses completed at UAA must be selected from the following:
   AS A252, Elementary Statistics
   AS A307, Probability and Statistics
   MATH A107, College Algebra
   MATH A108, Trigonometry
   MATH A109, Precalculus
   MATH A200, Calculus I
   MATH A201, Calculus II
   MATH A270, Applied Finite Mathematics for the Managerial Sciences
   MATH A272, Calculus for Managerial Sciences

4. Humanities 6
Credits satisfying the Humanities area must be earned outside of the student's major field of study. General humanities courses introduce the student to the humanistic fields of language, arts, literature, history and philosophy within the context of their traditions. (Note: History may be applied to either the Humanities or the Social Sciences requirements but not to both. If the student counts any history course(s) toward one requirement, they can not count any history course(s) toward the other). Courses completed at UAA must be selected from the following:
ART A261, History of World Art I
ART A262, History of World Art II
ART A367, History of Photography
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 A203, Survey of British Literature I
ENGL A204, Survey of British Literature II
ENGL A306, Literature of the United States I
ENGL A307, Literature of the United States II
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
GER A209, German Grammar
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
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
LAT A101, Elementary Latin I
LAT A102, Elementary Latin II
LING A101, The Nature of Language
MUS A221, History of Music I
MUS A222, History of Music II
PHIL A101, Introduction to Logic
PHIL A201, Introduction to Philosophy
PHIL A211, History of Philosophy I
PHIL A212, History of Philosophy II
PHIL A301, Ethics
PHIL A313B, Eastern Philosophy and Religion
PHIL A314, Western Religion
PS A331, Political Philosophy
PS A332, History of Political Philosophy I: Classical
PS A333, History of Political Philosophy II: Modern
RUSS A101, Elementary Russian I
RUSS A102, Elementary Russian II
RUSS A201, Intermediate Russian I
RUSS A202, Intermediate Russian II
SPAN A101, Elementary Spanish I
SPAN A102, Elementary Spanish II
SPAN A201, Intermediate Spanish I
SPAN A202, Intermediate Spanish II
THR A311, Representative Plays I
THR A312, Representative Plays II
THR A411, History of the Theatre I
THR A412, History of the Theatre II

5. Fine Arts.....3
Courses that fulfill this requirement are those that provide the student with an introduction to the fine arts (visual arts and performing arts) as academic disciplines as opposed to those that emphasize acquisition of skills. (Note: Fine arts courses that introduce the history/social/aesthetic background while also including the application of the creative skill may be acceptable. Music Majors must select courses outside their 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 Theatre
THR A311, Representative Plays I
THR A312, Representative Plays II
THR A411, History of Theatre I
THR A412, History of Theatre II

6. Social Sciences.....6
Credits satisfying the Social Sciences area must be earned outside of the student's major field of study. 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 may be applied to either the Humanities or the Social Sciences requirement but not to both. If the student counts any history course(s) toward one requirement, they can not count any history course(s) toward the other.) Courses completed at UAA must be selected from the following:
ANTH A101, Introduction to Anthropology
ANTH A200, Natives of Alaska
ANTH A202, Cultural Anthropology
ANTH A250, The Rise of Civilization
BA A151, Introduction to Business
ECON A201, Principles of Macroeconomics
ECON A202, Principles of Microeconomics
ENVI A201, 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
PARL A101, Introduction to Law
PS A101, Introduction to American Government
PS A102, Introduction to Political Science
PS A311, Comparative Politics
PS A351, Political Sociology
PSY A111, General Psychology
PSY A150, 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

7. Natural Sciences 7
Required credits must include one laboratory class. Courses that fulfill this requirement are those that provide the student with broad exposure and include general introduction to the theory, methods, and disciplines of the natural sciences. Courses completed at UAA must be selected from the following:
ASTR A103, Introductory Astronomy I
ASTR A104, Introductory Astronomy II
BIOL A102, Introductory Biology
BIOL A103, Introductory Biology Laboratory
BIOL A105, Fundamentals of Biology I
BIOL A106, Fundamentals of Biology II
BIOL A111, Human Anatomy and Physiology I
BIOL A112, Human Anatomy and Physiology II
CHEM A103/L, Introduction to General and Organic 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
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

HONORS PROGRAM

INTRODUCTION

The University Honors program is designed to provide enhanced educational opportunities for outstanding UAA students leading to a designation of "University-wide 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 UAA University Honors Program, several departments at UAA offer departmental honors programs. Students may complete both UAA and departmental honors requirements with dual designations upon graduation, and in some cases departmental honors courses may be substituted for one or more UAA University Honors requirements. In addition, students pursuing only departmental honors may enroll in some University Honors courses with permission of the UAA Honors Program Director, and on a space available basis.

ADMISSION TO UAA HONORS PROGRAM

1. Admission to the UAA Honors Program is limited to baccalaureate degree seeking students. Admission to the UAA Honors Program is separate from and in addition to general UAA admission requirements.

2. Students must submit a completed University Honors Program application, including supporting documents, to Enrollment Services. 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 UAA Honors Program office.

3. In general, students applying to the UAA 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 UAA 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 honors 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. Student 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 UAA Honors Program Curriculum requirements, and are encouraged also to take the recommended courses if at all possible:

Lower-division honors requirements:

HNRS A110	Community and Cultural Awareness	1*
HNRS A192	Honors Seminar: Enduring Books	3
HNRS A210	Community Service	1*
HNRS A292	Honors Seminar: Modern American Culture	3
Total lower-division honors credits required:		8
Recommended:		
Honors section of English		
Honors section of Communication		
Lower-division Statistics or Calculus		
Total required + recommended lower-division honors credits:		17

Upper-division honors requirements:

HNRS A392 Honors Thesis Seminar 1
and one of the following options:

A. HNRS A490 Senior Honors Seminar 6*

B. A course proposed by the student, and approved by the Honors Program Director (3 credits minimum; may be an existing course or independent study)
and
Senior thesis or project (3 credits minimum; either depart mental thesis/project, or HNRS A499 Honors Thesis).

C. An upper-division course listed in the catalog as a specific departmental honors requirement (3 credits minimum)
and
Senior thesis or project (3 credits minimum; either depart mental thesis/project, or HNRS A499 Honors Thesis).

D. Six-credit thesis/project (either departmental thesis/project, or HNRS A499 Honors Thesis).

Total upper-division honors credits required:	7
Total UAA Honors Program credits required (8 lower-division + 7 upper-division):	15
Total UAA Honors Program credits required + recommended:	24

* *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.

COLLEGE OF ARTS AND SCIENCES

INTRODUCTION

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 the General Education Requirements, the College of Arts and Sciences Requirements, and the major program requirements.

Electives

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

BACHELOR OF ARTS

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

A. Cultural Heritages
   - 1. Comparative Cultures — 3
     (ANTH A250)
   - 2. Western Culture — 6
     (HIST A101 and HIST A102)
   - 3. American Culture — 3
     (HIST A131, A132, PS A101)

B. Arts and Letters
   - 1. Introduction to Literature — 3
     (ENGL A121, A203, A204, A306, A307)
   - 2. Language/Humanities — 6
     Any two semester sequence in one of the following humanities sequences or in a language other than English: (*BA Music majors must select courses outside their major).
     ART A261-A262
     ENGL A201-A202
     MUS A221-A222*
     PHIL A211-A212
     PHIL A313B-A314
     PS A332-A333
     THR A311-A312
     THR A411-A412

C. Ways of Knowing — 3
   ENGL A120, PHIL A101, A201, A301, A421

D. Social Behavior 3
Choose one of the following not in the major:
ANTH A101
COMM A101
ECON A201
JPC A101
PS A102
PSY A111
SOC A101
SWK/HUMS A106

BACHELOR OF SCIENCE

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

A. Mathematics and Statistics
MATH A200 or A272 3-4
AS A253 4
or
AS A307 3

B. Computer Programming
CS 105, 107, 109, A201, A202; ES A201 3

C. Language/Humanities 6-8
Any 2 semester sequence in French, German, Japanese, Russian, or Spanish or one of the following humanities sequences:
ART A261-A262
ENGL A201-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
BIOL A102, A103, A105, A106, A111, A112, A113, A114
CHEM A103/L, A104/L, A105/L, A106/L
GEOL A111, A112
PHYS A123/L, A124/L, A211/L, A212/L
*Must be in addition to the 7 credit Natural Sciences General Education Requirement. The total Natural Sciences Requirement (16 credits) must include at least 6 credits in each of 2 disciplines and 2 lab credits.

BACHELOR OF MUSIC, PERFORMANCE

A. Language Proficiency 8
Any 2 semester language sequence.

BACHELOR OF FINE ARTS

The Bachelor of Fine Arts is a professionally oriented program designed to prepare students for careers in art. No additional college requirements.

CAS MINOR

A minor from the College of Arts and Sciences will consist of a minimum of 18 credits, at least 6 of which will be upper-division. Refer to each discipline for specific courses required. Also see Minors policy in this chapter.

ASSOCIATE OF ARTS (AA)

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 Communications 3
COMM A111 or A235 or A237 or A241
2. Written Communications 6
ENGL A111 Methods of Written Communication and one of the following:
ENGL A211 Academic Writing About Literature
ENGL A212 Technical Writing
ENGL A213 Writings in the Academic Disciplines
CIOS A262 Written Business Communications
3. Applied Studies* 9
4. Humanities* 9
5. Math and Natural Sciences* 9
6. Social Sciences* 9
7. Electives* 15
Total Minimum Credits 60

ASSOCIATE OF ARTS (AA) 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 3
COMM A111 or A235 or A237 or A241
2. Written Communications 6
ENGL A111 Methods of Written Communication and one of the following:
ENGL A211 Academic Writing About Literature
ENGL A212 Technical Writing
ENGL A213 Writings in the Academic Disciplines
3. Applied Studies* 9
Courses that meet this requirement focus on the application of skills and/or methodology of a discipline.
4. Humanities 9
Choose 6 credits from the Humanities and 3 credits from the Fine Arts General Education Requirements for Baccalaureate Degrees List.
5. Math and Natural Sciences 9
Choose one course with a lab from the Natural Sciences General Education Requirements for Baccalaureate Degrees List and one Quantitative Skills course.
6. Social Sciences 9
Choose at least 6 credits from the Social Sciences Baccalaureate General Education Requirements List.
7. Electives 15
Total Minimum Credits 60

Consult the Associate Degree Course Classifications list.

ALASKA NATIVE STUDIES

INTRODUCTION

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 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.

ALASKA NATIVE STUDIES MINOR

1. Complete the following core courses:
   - AKNS A201 Native Perspectives 3
   - AKNS A401 Seminar: Cultural Knowledge of Native Elders 3
2. Complete one of the following Focus Areas:

A. Policy Focus

- AKNS A290 Topics in Alaska Native Studies (1-3)
- AKNS/PS A346 Alaska Native Politics (3)
- AKNS/PS A411 Tribes, Nations, and Peoples (3)
- AKNS A490 Advanced Topics in Alaska Native Studies (1-3)

B. Language Focus

- AKNS A101 Alaska Native Languages I (4)
- AKNS A102 Alaska Native Languages II (4)

3. Complete no fewer than 6 credits of the following in addition to focus requirements: 6
   - 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 Topics in Alaska Native Studies (3)
   - AKNS/PS A346 Alaska Native Politics (3)
   - AKNS/PS A411 Tribes, Nations and Peoples (3)
   - AKNS A420 Native American Education (3)
   - AKNS A490 Advanced Topics in Alaska Native Studies (3)
   - ANTH A200 Natives of Alaska (3)
   - ANTH A435 Northwest Coast Cultures (3)
   - ANTH A436 Aleut Adaptations (3)
   - ART A365 Native Art of Alaska (3)
   - EDPE A145 Alaska Native Survival Techniques (3)
   - EDPE A165 Alaskan Native Sport Traditions (2)
   - HIST A200 History of Alaska Native Heritage (3)
   - HIST A235 History of American Indians (3)
   - HIST A242 History of Kodiak (3)
   - JUST A455 Rural Justice (3)
   - JUST A462 Indian Law and the Settlement Act (3)
4. Complete 3 credits from the following: 3
   - ANTH A435 Northwest Coast Cultures (3)
   - ENGL A344 Contemporary Native American Literature (3)
   - ENGL A345 Alaska Native Literature (3)
   - HIST A235 History of American Indians (3)
   - HIST A242 History of Kodiak (3)
   - HIST A341 History of Alaska (3)
5. A total of 19 credits or more is required for the minor, of which 6 credits must be upper-division.

ANTHROPOLOGY

INTRODUCTION

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 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): 12
   - ANTH A202 Cultural Anthropology (3)
   - ANTH A205 Biological Anthropology (3)
   - ANTH A210 Introduction to Anthropological Linguistics (3)
   - ANTH A211 Fundamentals of Archaeology (3)
   - ANTH A260 Old World Archaeology (3)
3. Complete 3 credits:
   - ANTH A410 History of Anthropology 3

4. Complete three ethnographic area courses from the following (9 credits): 9
   - ANTH A200 Natives of Alaska (3)
   - ANTH A325 Cook Inlet Anthropology (3)
   - ANTH A326 Arctic Ethnology (3)
   - ANTH A333 Peoples and Cultures of Southeast Asia (3)
   - ANTH A335 Native North Americans (3)
   - ANTH A336 Peoples of Cultures of South America(3)
   - ANTH A338 Peoples and Cultures of Scandinavia (3)
   - ANTH A435 Northwest Coast Cultures (3)
   - ANTH A436 Aleut 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 A313 Peopling of the Americas (3)
   - ANTH A316 Arctic Archaeology (3)
   - ANTH A330 Ancient Civilizations of Mexico and Guatemala (3)
5. Complete two courses from the following topical/theoretical courses (6 credits): 6
   - ANTH A270 Cross-Cultural Perspectives on Women (3)
   - ANTH A324 Culture and Personality (3)
   - ANTH A340 Urban Anthropology (3)
   - ANTH A345 Evolution of Humans and Disease (3)
   - ANTH A350 Survey of the Primates (3)
   - ANTH A354 Culture and Ecology (3)
   - ANTH A355 Medical Anthropology (3)
   - ANTH A356 Food and Nutrition: An Anthropological Perspective (3)
   - ANTH A361 Language and Culture (3)
   - ANTH A365 Races: Modern Human Diversity (3)
   - ANTH A400 Anthropology of Religion (3)
   - ANTH A420 Economic Anthropology (3)
   - ANTH A432 Hunting and Gathering Societies (3)
   - ANTH A433 Maritime Anthropology (3)
   - ANTH A450 Human Evolution (3)
   - ANTH/JUST A456 Anthropology and the Law (3)
   - ANTH A480 Analytical Techniques in Archaeology (3)
   - ANTH A483 Archaeology of Animals (3)
   - ANTH A485 Human Osteology (3)
6. Anthropology Electives (6 credits): 6

   Any course in Anthropology, including ANTH A101 and ANTH A250, may be applied toward the elective requirement.
7. Complete one statistics course from the following: 3
   - AS A252 Elementary Statistics (3)
   - AS A307 Probability and Statistics (3)
8. Anthropology majors may apply to the department at the end of their junior year to undertake independent research resulting in a substantial, thesis-quality paper. A maximum of six credits will be given for the two-semester project. Prior arrangements with the department are required.
9. Special Topics courses and Independent Study courses in Anthropology may be petitioned to satisfy ethnographic area or topical/theoretical courses requirements, depending on the course content.
10. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

BACHELOR OF SCIENCE, ANTHROPOLOGY

1. Complete 36 credits from items 2 through 6, 18 of which must be upper-division credits.
2. Complete four of the following core courses (12 credits): 12
   - ANTH A202 Cultural Anthropology (3)
   - ANTH A205 Biological Anthropology (3)
   - ANTH A210 Introduction to Anthropological Linguistics (3)
   - ANTH A211 Fundamentals of Archaeology (3)
   - ANTH A260 Old World Archaeology (3)
3. Complete 3 credits:
   - ANTH A410 History of Anthropology 3
4. Complete three ethnographic area courses from the following (9 credits): 9
   - ANTH A200 Natives of Alaska (3)
   - ANTH A325 Cook Inlet Anthropology (3)
   - ANTH A326 Arctic Ethnology (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 A435 Northwest Coast Cultures (3)
   - ANTH A436 Aleut 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 A313 Peopling of the Americas (3)
   - ANTH A316 Arctic Archaeology (3)
   - ANTH A330 Ancient Civilizations of Mexico and Guatemala (3)
5. Complete two courses from the following topical/theoretical courses (6 credits): 6
   - ANTH A270 Cross-Cultural Perspectives on Women (3)
   - ANTH A324 Culture and Personality (3)
   - ANTH A340 Urban Anthropology (3)
   - ANTH A345 Evolution of Humans and Disease (3)
   - ANTH A350 Survey of the Primates (3)
   - ANTH A354 Culture and Ecology (3)
   - ANTH A355 Medical Anthropology (3)
   - ANTH A356 Food and Nutrition: An Anthropological Perspective (3)
   - ANTH A361 Language and Culture (3)
   - ANTH A365 Races: Modern Human Diversity (3)
   - ANTH A400 Anthropology of Religion (3)
   - ANTH A420 Economic Anthropology (3)
   - ANTH A432 Hunting and Gathering Societies (3)
   - ANTH A433 Maritime Anthropology (3)
   - ANTH A450 Human Evolution (3)
   - ANTH/JUST A456 Anthropology and the Law (3)
   - ANTH A480 Analytical Techniques in Archaeology (3)
   - ANTH A483 Archaeology of Animals (3)
   - ANTH A485 Human Osteology (3)

6. Anthropology Electives (6 credits): 6
   Any course in Anthropology, including ANTH A101 and ANTH A250, may be applied toward the elective requirement.
7. Complete the following statistics course: 3
   AS A307 Probability and Statistics
   or
   AS A253 Applied Statistics for 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 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.

ANTHROPOLOGY AS A MINOR

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

1. Select two courses (6 credits) from the following: 6
   ANTH A101 Introduction to Anthropology (3)
   ANTH A202 Cultural Anthropology (3)
   ANTH A205 Biological Anthropology (3)
   ANTH A210 Introduction to Anthropological Linguistics (3)
   ANTH A211 Fundamentals of Archaeology (3)
   ANTH A260 Old World Archaeology (3)
2. Complete at least one course (3 credits) from either the ethnographic area or the topical/theoretical area, as specified above for majors in Anthropology. 3
3. Complete three courses (9 credits) of anthropology electives. 9

APPLIED STATISTICS

INTRODUCTION

During the past several decades, the social and economic structure of the United States has shifted from an industrialized base to an information and services 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 substantial demand among students and various entities within the community for this program.

APPLIED STATISTICS AS A MINOR

Students majoring in another subject who wish to minor in Applied Statistics must complete the following requirements. A total of 26 credits is required for the minor.

1. Complete these required courses (20 credits):
   AS A307 Probability and Statistics 3
   AS A308 Intermediate Statistics 3
   AS A315 Nonparametric Statistics 3
   AS A402 Scientific Sampling 3
   MATH A200 Calculus I 4
   MATH A201 Calculus II 4
2. Complete a minimum of 6 credits from the following: 6
   AS A310 Regression Analysis (3)
   AS A312 Analysis of Variance (3)
   AS A400 Selected Topics in Statistics (3) (maximum 3 credits)
   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)

Note: Applied Statistics courses may be taken to satisfy the elective portion of the minor or the elective portion of the Mathematics major but not both.

ART

INTRODUCTION

Art gives form to human experience; it expresses the entire range of thought and feeling. Affirming the belief that knowledge of the visual arts is an indispensable part of any broad education, the Department of Art offers a wide range of learning experiences designed to encourage independent thinking and creativity, and to develop an appreciation of humankind's artistic achievements from pre-history to the present. The Bachelor of Arts and the Bachelor of Fine Arts are accredited by the National Association of Schools of Art and Design.

The Department of Art discerns three distinct functions for visual arts education at UAA: training future professional artists-painters, sculptors, printmakers, craftspersons and designers; training future art teachers for public and private elementary and secondary schools; and supplying supplementary training in the visual arts for students who wish to enrich their lives through the study of visual art, but who do not wish to obtain a degree.

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.

BACHELOR OF ARTS, ART

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. A maximum of 60 credits in Art may be applied toward the degree. Transfer students who are candidates for the BA degree with a major in Art must complete a minimum of 18 Art credits in residence.

B. GENERAL EDUCATION REQUIREMENTS

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

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

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

D. MAJOR REQUIREMENTS

LOWER-DIVISION ART (27 CREDITS):

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

ART A105	Beginning Drawing	3
ART A111	Two-Dimensional Design	3
ART A113	Three-Dimensional Design	3
ART A205	Intermediate Drawing	3
ART A261	History of World Art I	3
ART A262	History of World Art II	3

2. Choose one two-dimensional course, one three-dimensional course, and one course from either list to total 9 credits: 9

Two-Dimensional Area:

ART A112	Color Design (3)
ART A213	Beginning Painting (3)
ART A215	Beginning Printmaking (3)
ART/JPC A224	Beginning Photography (3)
ART A252	Beginning Graphic Design and Illustration (3)
ART A271	Beginning Surface Design (3)
ART A273	Beginning Woven Forms (3)

Three-Dimensional Area:

ART A201	Beginning Handbuilt Ceramics (3)
ART A202	Beginning Wheelthrown Ceramics (3)
ART A209	Beginning Metalsmithing and Jewelry (3)
ART A211	Beginning Sculpture (3)
ART A272	Beginning Fiber Structures (3)
ID A141	Interior Design (3)

UPPER-DIVISION ART (21 CREDITS):

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

Painting	Photography
Illustration	Drawing
Printmaking	Metalsmithing
Sculpture	Graphic Design
Ceramics	Fibers

4. Complete the following Art requirements (6 credits): 6
   Upper-division Art History

MISCELLANEOUS REQUIREMENTS (15 CREDITS):

5. Complete the following:

PHIL A401	Aesthetics	3
Upper-division General Electives		12

6. A total of 121 credits are required for the degree, of which 42 credits must be upper-division.

BACHELOR OF FINE ARTS, ART

INTRODUCTION

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 desiring to enter the BFA program should request a copy of the current program policy from the Department.

Students wishing to pursue a primary area of studio emphasis in Illustration or Graphic Design should note differing BFA options. 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

All BFA Committee meetings will be conducted with only the BFA student and the BFA Committee present. The progress of all BFA candidates in residence will be reviewed a minimum of once a semester by the BFA Committee. BFA students enrolled in Art A499, Thesis, will be reviewed a minimum of twice a semester in addition to the final thesis evaluation. The BFA Committee will be comprised of all Art faculty entitled to vote on departmental matters.

Special Note: The thesis proposal must be submitted to and accepted by the BFA Committee during the semester prior to enrollment in Art A499, Thesis.

The final meeting with the BFA Committee will be to evaluate the student's thesis project. Evaluation 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.

Graduating BFA students have the option of participating in an annual BFA Show. Exhibited 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 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. A maximum of 84 credits in Art may be applied toward the degree.

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.

LOWER-DIVISION ART (27 CREDITS):

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

ART A105	Beginning Drawing	3
ART A111	Two-Dimensional Design	3
ART A113	Three-Dimensional Design	3
ART A205	Intermediate Drawing	3
ART A261	History of World Art I	3
ART A262	History of World Art II	3

2. Choose one two-dimensional course, one three-dimensional course, and one course from either list to total 9 credits. 9

Two-Dimensional Area:

ART A112	Color Design (3)
ART A213	Beginning Painting (3)
ART A215	Beginning Printmaking (3)
ART/JPC A224	Beginning Photography (3)
ART A252	Beginning Graphic Design and Illustration (3)
ART A271	Beginning Surface Design (3)
ART A273	Beginning Woven Forms (3)

Three-Dimensional Area:

ART A201	Beginning Handbuilt Ceramics (3)
ART A202	Beginning Wheelthrown Ceramics (3)
ART A209	Beginning Metalsmithing and Jewelry(3)
ART A211	Beginning Sculpture (3)
ART A272	Beginning Fiber Structures (3)
ID A141	Interior Design (3)

UPPER-DIVISION ART (42 CREDITS):

3. Complete a total of 21 upper-division credits in one of the primary areas of studio emphasis listed below: 21

Graphic Design*	See following requirements.
Illustration**	See following requirements.
Painting	Printmaking
Photography	Ceramics
Metalsmithing	Sculpture
Drawing	Fiber

4. Complete a total of 9 upper-division credits in one of the secondary areas of studio emphasis listed below: 9

Painting	Ceramics
Photography	Sculpture
Metalsmithing	Fiber
Drawing	Graphic Design
Printmaking	Illustration

*GRAPHIC DESIGN REQUIREMENTS

BFA students pursuing a primary area of studio emphasis in Graphic Design must complete the following requirements. The following 30 credits are taken in lieu of the standard BFA primary and secondary areas of studio emphasis as listed in 3 and 4 above. BFA students pursuing a primary area of studio emphasis in Graphic Design must complete all other requirements for the BFA degree as listed in the catalog.

Required: 18

ART A351	Typography (3) (must repeat once for credit)	6
ART A352	Advanced Graphic Design (3) (must repeat once for credit)	6
ART A354	Advertising Design	3
ART A451	Internship/Graphic Design	3

Electives: 12

ART/JPC A324	Intermediate Photography (3)
ART A356	Drawing for Illustration II (3) (may repeat once for credit)
ART A357	Computer Art and Design (3) (may repeat once for credit)
ART A451	Internship/Graphic Design (3)

**ILLUSTRATION REQUIREMENTS

BFA students pursuing a primary area of studio emphasis in Illustration must complete the following requirements. The following 30 credits are taken in lieu of the standard BFA primary and secondary areas of studio emphasis as listed in 3 and 4 above. BFA students pursuing a primary area of studio emphasis in Illustration must complete all other requirements for the BFA degree as listed in the catalog.

Required: 18

ART A356	Drawing for Illustration II (3) (must repeat once for credit)	6
ART A458	Illustration III (1-6)	6
ART A459	Illustration IV (1-6)	6

Electives: 12

ART/JPC A324	Intermediate Photography (3)
ART A355	Airbrush (3) (may repeat once for credit)
ART A357	Computer Art and Design (3) (may repeat once for credit)
ART A358	Children's Book Illustration (3) (may repeat once for credit)
ART A455	3-D Illustration (3) (may repeat once for credit)
ART A457	Internship/Illustration (1-6)

5. Complete the following Art requirements (12 credits):

Upper-division Art History	9
Thesis Project	3

6. Complete the following requirements (18 Credits):

PHIL A401	Aesthetics	3
Studio Art Electives, any level		15

7. A total of 121 credits is required for the degree, of which 42 credits must be upper-division. A minimum cumulative GPA of 2.50 in all university course work is required to graduate.

ART MINOR

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 History (ART A261 or A262)	3
Design (ART A111 or A113)	3
Drawing (any course)	3
Studio (any degree course)	6
Art History or Studio	3

BIOLOGICAL SCIENCES

INTRODUCTION

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 which to attend graduate school. The organismal-ecology-evolution area is a more diversified curriculum emphasizing environmental, organismal, evolutionary, and general biological sciences preparatory for graduate school or for employment in the private or public sector. Students are strongly encouraged to consult with their advisors to determine which electives best suit their programmatic needs and career requirements.

The Bachelor of Arts and the Bachelor of Science degree programs require a total of 124-125 credits for graduation and can be completed in four years by students who have had adequate high school preparation in math and sciences. Refer to the beginning of this chapter for recommended high school courses.

COMMUNITY SERVICE COURSES

The department offers a wide range of community service courses as a service to the people in the Anchorage area and extended campuses who wish to become more knowledgeable about the science of biology and how it relates to them. Unless noted otherwise in the course description, community service courses do not satisfy either core requirements or elective credit towards any degree programs in the biological sciences. All are offered as demand warrants.

BIOL A074	Field Natural History
BIOL A075	Local Flora
BIOL A124	Biota of Alaska: Selected Topics
BIOL A126	Birds in Field and Laboratory
BIOL A139	Introduction to Forestry
BIOL A150	Introduction to Marine Biology

UNIVERSITY SERVICE COURSES

The department offers several courses specifically designed for students majoring in Nursing, which are accepted for Biology major credit only by petition. A general biology lecture and lab course is also offered every semester for non-biology majors. Only certain 100-level courses currently satisfy General Education Requirements and Natural Sciences Area requirements for specified baccalaureate degree programs in the College of Arts and Sciences (CAS). Refer to both General Education Requirements and specific CAS program degree requirements.

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

BACHELOR OF ARTS, BIOLOGICAL SCIENCES

ADMISSION REQUIREMENTS

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

ACADEMIC PROGRESS

In order to graduate with a BA in Biological Sciences, all courses covered under "Major Requirements" for a BA in Biological Sciences must be completed with a grade of "C" or better. Students who audit a course in biology or who are unable to earn a grade of "C" or better in the course may repeat the course. All prerequisites for biology courses must be completed with a grade of "C" or better.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

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

B. GENERAL EDUCATION REQUIREMENTS

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

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

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

D. MAJOR REQUIREMENTS

1. Unless otherwise noted, the major requirements may also be used to satisfy the general education and other degree requirements.
2. Complete at least 35-38 credits in biology of which at least 19 must be upper-division.
3. Complete these required core courses (28-29 credits):

BIOL A105	Fundamentals of Biology I	4
BIOL A106	Fundamentals of Biology II	4
BIOL A219	Fundamentals of Biology III	4
BIOL A252	Principles of Genetics	4
BIOL A310	Animal Physiology (3)	3-4
	or	
BIOL A416	Physiology and Biochemistry of Plants (4)	
	or	
BIOL A361	Cell Biology (3)	
BIOL A492	Undergraduate Seminar	1
CHEM A103/L	Introduction to General	8
	and Organic Chemistry (4)	
	and	
CHEM A104/L	Introduction to Organic	
	Chemistry and Biochemistry (4)	
	or	
CHEM A105/L	General Chemistry I (4)	
	and	
CHEM A106/L	General Chemistry II (4)	

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

GEOL A111	Physical Geology (4)	
	and	
GEOL A112	Historical Geology (4)	
	or	
PHYS A123/L	Basic Physics I (4)	
	and	
PHYS A124/L	Basic Physics II (4)	

5. Complete 15-17 credits of upper-division program electives from the following areas:

Ecology	3-4
Microbiology	4-5
Biology electives	8

6. 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. Unless otherwise noted, the major requirements may also be used to satisfy the general education and other degree requirements.
2. Complete 46-51 credits in biology of which at least 30 must be upper-division.

3. Complete these required support courses (38 credits):

AS A253	Applied Statistics for Sciences	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.*

4. Complete biology core courses (32-33 credits):

BIOL A105	Fundamentals of Biology I	4
BIOL A106	Fundamentals of Biology II	4
BIOL A219	Fundamentals of Biology III	4
BIOL A252	Principles of Genetics	4
BIOL A308	Principles of Evolution	3
BIOL A310	Animal Physiology (3)	3-4
	or	
BIOL A416	Physiology and Biochemistry of Plants (4)	
	or	
BIOL A361	Cell Biology (3)	
BIOL A340	General Microbiology	5
BIOL A371	Principles of Ecology	4
BIOL A492	Undergraduate Seminar	1

5. Complete 14-15 credits of upper-division program electives from the following list:

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

A. Recommended electives in Cellular and Molecular Biology:

Cellular-Molecular

BIOL A310	Animal Physiology (3)
	or
BIOL A416	Physiology and Biochemistry of Plants (4)
	or
BIOL A361	Cell Biology (3)
BIOL A352	Human Genetics (3)
BIOL A362	Cell Biology Laboratory (3)
BIOL A412	Endocrinology (3)
BIOL A461	Molecular Biology (3)
BIOL/CHEM A471	Immunochemistry (4)
BIOL A488	Developmental Biology (4)

Zoology

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

Techniques

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

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

Botany

BIOL A331	Systematic Botany (4)
BIOL A333	Biology of Non-Vascular Plants (4)
BIOL A334	Biology of Vascular Plants (4)
BIOL A439	Plant Ecology Field Course (3)

Zoology

BIOL A327	Parasitology (4)
BIOL A423	Ichthyology (4)
BIOL A425	Mammalogy (4)
BIOLA426	Ornithology (4)
BIOL A427	Invertebrate Zoology (4)
BIOL A487	Comparative Anatomy of Vertebrates (4)

Ecology-Systems

BIOL A309	Biogeography (3)
BIOL A310	Animal Physiology (3)
	or
BIOL A416	Physiology and Biochemistry of Plants (4)
	or
BIOL A361	Cell Biology (3)
BIOL A373	Environmental Biology (3)
BIOL A375	Terrestrial Ecosystems (3)
BIOL A378	Marine Biology (3)
BIOL A441	Animal Behavior (4)
BIOL A475	Arctic Tundra Ecosystems (3)
BIOL A476	Boreal Ecosystems (3)

Techniques

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

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

BIOL A497	Independent Study in Biology
BIOL A498	Individual Research

6. A total of 124-125 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.

BIOLOGICAL SCIENCES MINOR

Students majoring in another subject who wish to minor in Biological Sciences must complete the following requirements. A total of 24 credits is required for the minor, 8 of which must be upper-division.

BIOL A105	Fundamentals of Biology I	4
BIOL A106	Fundamentals of Biology II	4
BIOL A219	Fundamentals of Biology III	4
BIOL A252	Principles of Genetics	4
Upper-division biology electives		8

CANADIAN STUDIES

INTRODUCTION

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.

CANADIAN STUDIES MINOR

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 (6 credits):

INTL A301	Canada: Introductory Survey	3
INTL A302	Canada: Contemporary Issues	3

2. Complete 12 credits of approved electives, including at least one offering of INTL A303, Canada: Selected Topics. 12

The courses listed below are potentially applicable to the Canadian Studies Minor. Students will also be permitted to count special topics courses and independent/directed study courses that focus specifically on Canada, and may repeat INTL A302, A303, and A304 for credit with change of subtitle.

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

ANTH A316	Arctic Archaeology	3
ANTH A326	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 A423	Comparative Economic Systems	3
ECON A435	Economics of Resources	3
ECON A463	International Economics	3
ED A478	Methods and Materials for Bilingual Education	3
ENGL A265	Literature of the North	3
ENGL A383	Film Interpretation	3
FREN A432	Studies of Literature and Culture	3
GEOG A207	Edge of Fire: A Physical Geography of the American West	3
HIST A341	History of Alaska	3
HIST A431	Colonies and Revolution	3
HIST A434	Early National Period: 1800-1850	3
INTL A303	Canada: Selected Topics	3
INTL A304	Canada: Field Study Tour	1
INTL/HIST A374	History of Canada to 1867	3
INTL/HIST 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/ANTH A411	Tribes, Nations, and Peoples	3
PS A424	International Law and Organization	3
PS A490	Studies in Politics	1-3

CHEMISTRY

INTRODUCTION

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.

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

Chemistry Option

1. Complete the following required courses (72 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 A321	Organic Chemistry I	4
CHEM A322	Organic Chemistry II	4
CHEM A331	Physical Chemistry I	3
CHEM A332	Physical Chemistry II	5
CHEM A434	Instrumental Methods	4
CHEM A452	Inorganic Chemistry I	3
CHEM A453	Inorganic Chemistry II	5
CHEM A492	Undergraduate Seminar (1)	2
CHEM A498	Individual Research (3)	6
MATH A200	Calculus I	4
MATH A201	Calculus II	4
MATH A202	Calculus III	4
MATH A302	Ordinary Differential Equations	3
PHYS A211	General Physics I	4
PHYS A212	General Physics II	4

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

Biochemistry Option

1. 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 A434	Instrumental Methods	4
CHEM A441	Principles of Biochemistry I	3
CHEM A442	Principles of Biochemistry II	3
CHEM A443	Biochemistry Laboratory	2
CHEM A492	Undergraduate Seminar (1)	2
CHEM A498	Individual Research (3)	6
MATH A200	Calculus I	4
MATH A201	Calculus II	4
MATH A202	Calculus III	4
PHYS 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)	
Upper-division biology credits		9

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

CHEMISTRY MINOR

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)	3
	or	
CHEM A331	Physical Chemistry I (3)	
CHEM A321	Organic Chemistry I	4
CHEM A322	Organic Chemistry II	4

COMMUNICATION

INTRODUCTION

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.

COMMUNICATION MINOR

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:		9
COMM A101	Introduction to Human Communication (3)	
COMM A111	Fundamentals of Oral Communication (3)	
COMM A235	Small Group Communication (3)	
COMM A237	Interpersonal Communication (3)	
COMM A241	Public Speaking (3)	
Select 9 credits from the following:		9
COMM A236	Interviewing (3)	
COMM A320	Debate and Deliberation (3)	
COMM A305	Intercultural Communication (3)	
COMM A340	Nonverbal (3)	
COMM A346	Oral Interpretation (3)	
COMM A360	Forensics (3)	
COMM A380	Communication Theory (3)	
COMM A390	Selected Topics (3)	
COMM A412	Persuasion (3)	

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

COMPUTER SCIENCE

INTRODUCTION

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 paths, the Bachelor of Arts in Computer Science, and the Information Sciences option of the Bachelor of Science in Computer Science program are very similar. The BA program gives the student the ability 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 of $20 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 either a BA or BS degree listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS

1. Complete the following core courses (45 credits):

CS A101	Introduction to Computer Science	3
CS A201	Programming Concepts I	3
CS A202	Programming Concepts II	3
CS A220	Hardware Concepts I	3
CS A221	Hardware Concepts II	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)	3-4
	or	
MATH A107	College Algebra (4)	
MATH A272	Calculus for Managerial Sciences(3)	3-4
	or	
MATH A200	Calculus I (4)	
AS A252	Elementary Statistics (3)	3
	or	
AS A307	Probability and Statistics (3)	
ENGL A312	Advanced Technical 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. 15
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 121-123 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 either a BA or BS degree listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS

1. Complete the following core courses (27 credits):

CS A101	Introduction to Computer Science	3
CS A201	Programming Concepts I	3
CS A202	Programming Concepts II	3
CS A220	Hardware Concepts I	3
CS A221	Hardware Concepts II	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
	or	
PHYS A211/L	General Physics I (4)	
PHYS A124/L	Basic Physics II (4)	4
	or	
PHYS A212/L	General Physics II (4)	
ENGL A312	Advanced Technical Writing	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
	or	
CS A448	Computer Architecture (3)	
CS A450	Automata, Languages and Computability	3
MATH A306	Discrete Methods	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. 12
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 120 credits is required for the degree, of which 42 credits must be upper-division.

COMPUTER SCIENCE MINOR

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

1. Complete the five required courses:

CS A101	Introduction to Computer Science	3
CS A201	Programming Concepts I	3
CS A202	Programming Concepts II	3
CS A220	Hardware Concepts I	3
CS A221	Hardware Concepts II	3

2. Complete 9 credits of upper-division Computer Science courses.
3. A total of 24 credits is required for the minor.

CREATIVE WRITING AND LITERARY ARTS

CREATIVE WRITING AND LITERARY ARTS MINOR

Students majoring in another subject who wish to minor in Creative Writing and Literary Arts must complete the following requirements. A total of 18 credits is required for the minor.

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 taken at the 300-level.
   - CWLA A259 Short Format Introduction to Creative Writing (1)
   - CWLA A260 Introduction to Creative Writing (3)
   - CWLA A261 Art/Literary Magazine Production(3)
   - CWLA A352 Undergraduate Writer's Workshop: Poetry (3)
   - CWLA A362 Undergraduate Writer's Workshop: Fiction (3)
   - CWLA A372 Undergraduate Writer's Workshop: Creative Nonfiction (3)
   - CWLA A382 Undergraduate Writer's Workshop: Drama for Stage and Screen (3)
2. 6 credits from the following list of 400-level courses: 6
   - CWLA A461 Writing and Gender (3)
   - CWLA A490 The Writer's Craft (3)
3. A total of 18 credits is required for the minor, at least 6 of which must be upper division.

CREATIVE WRITING AND LITERARY ARTS MINOR WITH DISTINCTION

Students majoring in another subject who wish to minor in Creative Writing and Literary Arts with Distinction will be required to produce a thesis project in consultation with their advisor, consisting of approximately 30 pages of fiction, creative nonfiction, drama, or poetry, prefaced by an analytical essay and followed by an annotated bibliography. For a CWLA Minor with Distinction, a student must maintain a GPA of 3.5 in the minor.

1. Complete 9 credits from the following list of undergraduate writing workshops and magazine production course offerings. Note that at least 6 credits must be upper division: 9
   - CWLA A259 Short Format Introduction to Creative Writing (1)
   - CWLA A260 Introduction to Creative Writing (3)
   - CWLA A261 Art/Literary Magazine Production (3)
   - CWLA A352 Undergraduate Writer's Workshop: Poetry (3)
   - CWLA A362 Undergraduate Writer's Workshop: Fiction (3)
   - CWLA A372 Undergraduate Writer's Workshop: Creative Nonfiction (3)
   - CWLA A382 Undergraduate Writer's Workshop: Drama for Stage and Screen (3)
2. Complete 6 credits from the following: 6
   - CWLA A461 Writing and Gender (3)
   - CWLA A490 The Writer's Craft (3)
3. Complete the following required project: 3
   - CWLA A499 Thesis (3)
4. A total of 18 credits is required for the minor, at least 6 of which must be upper division.

ENGLISH

INTRODUCTION

The programs offered by the Department of English provide an opportunity for a truly liberal education, one that encourages both self-discovery and exploration of enduring ideas. The curriculum includes courses in composition, rhetoric, literature, linguistics, and study and thinking strategies. In 100 and 200-level composition courses, students learn that effective writing depends on exploration and precision. Students who major in English choose one of two options: literature or rhetoric and composition. The literature option focuses on major literary periods, genres, and specialized areas of study, and the social and cultural forces that shape them. The rhetoric and composition option focuses on rhetorical periods and composition theory, emphasizing these historical and theoretical perspectives in contemporary settings. Both options provide opportunities for majors to become proficient at conducting research in the discipline and writing for a variety of purposes and audiences.

For information on placement tests, challenge exams, transfer credits, petition procedures or special registration, contact the English Department. For information on college-level credit courses in English-As-A-Second Language (ESL), also contact the Department of English.

BACHELOR OF ARTS, ENGLISH

ADMISSION REQUIREMENTS

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

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

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

B. GENERAL EDUCATION REQUIREMENTS

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

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

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

D. MAJOR REQUIREMENTS

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

1. Complete the following core courses (15 credits):
   - ENGL A201 Masterpieces of World Literature I 3
   - ENGL A202 Masterpieces of World Literature II 3
   - ENGL A351 Poetry 3
   - ENGL A424 Shakespeare 3
   - ENGL A435 History of Criticism 3

2. Complete one of the following options.

Literature Option (21 credits)

Take two of the following:		6
ENGL A306	Literature of the United States I (3)	
ENGL A310	Ancient Literature (3)	
ENGL A315	Medieval Literature (3)	
ENGL A320	Renaissance Literature (3)	
ENGL A325	Neoclassical Literature (3)	
ENGL A330	Literature of Romanticism (3)	
ENGL A340	The Victorian Period (3)	
Take one of the following:		3
ENGL A307	Literature of the United States II (3)	
ENGL A342	The Modernist Period (3)	
ENGL A343	Contemporary Literature (3)	
ENGL A440	Topics in 20th Century Comparative Literature (3)	
Take one of the following:		3
ENGL A361	The Novel (3)	
ENGL A363	The Short Story (3)	
ENGL A371	Prose Nonfiction (3)	
ENGL A381	Drama (3)	
ENGL A383	Film Interpretation (3)	
ENGL A391	Genres of Subject and Theme (3)	
And take the following (9 credits):		9
ENGL A475	Modern Grammar (3)	
	or	
ENGL A476	History of English Language (3)	
Upper-division English electives (6)		6

Rhetoric Option (21 credits)

Take the following:		3
ENGL A434	History of Rhetoric(3)	
Take one of the following:		3
ENGL A311	Advanced Exposition (3)	
ENGL A312	Advanced Technical Writing (3)	
ENGL A414	Research Writing (3)	
Take three of the following:		9
ENGL A437	Style and Stylistics (3)	
ENGL A450	Linguistics and Language Teaching (4)	
ENGL A452	English Grammar and Language Teaching (3)	
ENGL A475	Modern Grammar (3)	
ENGL A476	History of English Language (3)	
ENGL A487	Standard Written English (3)	
Take one of the following:		3
ENGL A310	Ancient Literature (3)	
ENGL A344	Contemporary Native American Literature (3)	
ENGL A440	Topics in 20th Century Comparative Literature (3)	
Take one of the following:		3
ENGL A315	Medieval Literature (3)	
ENGL A320	Renaissance Literature (3)	
ENGL A325	Neoclassical Literature (3)	
ENGL A421	Chaucer (3)	

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

ENGLISH MINOR

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.

ENGL A201	Masterpieces of World Literature I	3
ENGL A202	Masterpieces of World Literature II	3
ENGL A351	Poetry	3
ENGL A424	Shakespeare	3
ENGL A435	History of Criticism	3
Upper-division English electives		3

ENVIRONMENTAL STUDIES

INTRODUCTION

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.

ENVIRONMENTAL STUDIES MINOR

Students majoring in another subject who wish to minor in Environmental Studies must complete the following requirements. At least 18 credit are required for the minor.

1. Complete the following required core courses: 12

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

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

BIOL A309	Biogeography
BIOL A331	Systematic Botany
BIOL A375	Terrestrial Ecosystems
BIOL A475	Arctic Tundra Ecosystems
BIOL A476	Boreal Ecosystems
BIOL A485	Selected Topics in Biology
CE A344	Water Resources Engineering
CE A441	Sanitary Engineering
CHEM A450	Environmental Chemistry
GIS A370	Remote Sensing and GIS for Natural Resources
GEOG A205	Elements of Physical Geography
GEOL A115	Environmental Geology
GEOL A304	Geomorphology

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
AKNS A354	Culture and Ecology
ANTH A432	Hunting and Gathering Societies
ECON A435	Economics of Natural Resources
GEOG A101	Introduction to Geography
GEOG A343	Historical Geography
HIST A440	The American West Since 1850
JUST A491	Natural Resources Law
SOC A404	Environmental Sociology

GEOLOGY

INTRODUCTION

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.

The Bachelor of Education in Secondary Education , with a teaching major in geology, offers the students training in education as well as proficiency in geology.

GEOLOGY MINOR

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

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

HISTORY

INTRODUCTION

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

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. For this reason, history remains a challenging, rewarding, and often sobering intellectual 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

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

HISTORY MINOR

Students majoring in another subject who wish to minor in History must complete the following requirements. A total of 18 credits is required for the minor, 9 of which must be upper-division.

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

JOURNALISM AND PUBLIC COMMUNICATIONS

INTRODUCTION

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.

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 ENGL A211 or ENGL A212, ENGL A213 and in any JPC course that is a prerequisite before proceeding to the advanced course.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for 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. These 90 credits must include 65 credits in liberal arts courses. Only 36 JPC credits will be accepted in partial fulfillment of degree requirements. This consists of 18 credits in core courses taken by all majors, and 18 credits in one of the option areas. Students should know how to type before enrolling in writing classes. Computers are used in these classes, and students will be asked to write against deadline.
2. Complete all six of the following JPC core courses (18 credits):

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

3. Complete six courses in one of the following options (18 credits):

Journalism - Option I

Complete 18 credits: 18

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

Public Relations and Advertising - Option II

Complete 18 credits: 18

JPC A212	Editing (REQUIRED) (3)
JPC A215	History of Mass Communication (3)
JPC/ART A224	Beginning Photography (3)
JPC A305	Journalistic Interviewing (3)
JPC A320	Principles of Public Relations (3)
JPC A328	Advertising Campaign (3)
JPC A329	Graphics and Publication Design (3)
JPC A330	Advanced Public Relations (3)
JPC A340	Web Design (3)
JPC A355	Writing for Public Relations (3)
JPC A364	Advertising Strategy (3)
JPC A365	Advertising Creativity (3)
JPC A400	Practicum (1-3)
JPC A401	Specialized Writing (3)
JPC A416	Information Age Communication (3)
JPC/ART A423	Advertising and Public Relations Photography (3)
JPC A440	The Press: Issues and Answers (3)
JPC A451	Internship in Public Relations or Advertising (3)
JPC A490	Selected Topics in Communication (1-3)

Telecommunication and Film - Option III

Complete 18 credits:		18
JPC A215	History of Mass Communication (3)	
JPC/ART A224	Beginning Photography (3)	
JPC A305	Journalistic Interviewing (3)	
JPC A309	Radio News (3)	
JPC A310	Audio Production (3)	
JPC A316	Producing for Film and Television (3)	
JPC 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 A416	Information Age Communication (3)	
JPC A440	The Press: Issues and Answers (3)	
JPC A452	Internship in Telecommunications (3)	
JPC A490	Selected Topics in Communication (1-3)	

Photography - Option IV

Complete 18 credits:		18
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 A416	Information Age Communication (3)	
JPC/ART A423	Advertising and Public Relations Photography (3)	
JPC/ART A424	Advanced Photography (3)	
JPC A440	The Press: Issues and Answers (3)	
JPC A453	Internship in Photography (3)	
JPC A490	Selected Topics in Communication (1-3)	

General Communication - Option V

Complete 18 credits:	18
As a fifth 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.

JOURNALISM AND PUBLIC COMMUNICATIONS MINOR

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

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

LANGUAGES

INTRODUCTION

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 Chinese, Korean, and Latin. First year courses begin building the foundations of language learning: listening, speaking, reading, and writing. Since language can only be understood within a cultural context, studying culture is included from the first semester. In courses beyond the first year, students expand and refine their language skills and further develop their cultural knowledge.

As an integral part of their education, the Department recommends that all students majoring in Languages study abroad in a country of their target language(s). The NCSA Program offers study in France and Austria; the Department administers its own exchange program with Magadan International University (Russia); and information is available from the International Student Advisor in Enrollment Services for programs in Japan and Spanish-speaking countries.

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

BACHELOR OF ARTS
LANGUAGES

ADMISSION REQUIREMENTS

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

2. Complete an 8-credit language sequence, A101-102, with a grade of "B" or better, in French, German, Japanese, Russian, or Spanish.

ACADEMIC PROGRESS

No course in which a grade below "C" has been received will count towards the major.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

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

B. GENERAL EDUCATION REQUIREMENTS

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

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the Bachelor 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
4. Compete 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
4. Compete 9 credits of upper-division electives in or related to the emphasis language or culture, at least 6 of which must be taught in the emphasis language (see Department for list of approved courses taught in English). 9
5. Complete 8 credits in the second language 8

2. Students must petition to substitute Study Abroad/Immersion experience language courses for certain major requirements and possible waiver of up to 8 credits of major requirements.
3. Students may not earn a major and minor(s) in the same language(s).
4. The degree program must be approved and signed by the Department of Languages.
5. 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), 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.

LANGUAGES MINOR

Students who wish to minor in languages must complete the following requirements: a total of 19 credits at or above the 200-level with at least 11 credits being upper division. Credits must be in one discipline chosen from the following languages:

French
German
Japanese
Russian
Spanish

A comprehensive examination attesting to the student's oral and written proficiency in the language is required.

MATHEMATICS

INTRODUCTION

The well-trained mathematician is needed in many sectors of the community including business, government, education, computing, surveying and the vocational field.

The Department of Mathematical Sciences offers a broad-based selection of courses in mathematics, computer science, and statistics. The four-year degree program offers an excellent foundation for any career involving theoretical or applied mathematics. Information on Computer Science and Applied Statistics can be found in the catalog under the appropriate headings.

The Department of Mathematical Sciences has two microcomputer laboratories, and an additional laboratory with terminals to a mainframe computer. Students also have access to a statewide network of computers. Peer tutoring and computer-assisted instruction are available for those students needing help in mathematics.

The Department of Mathematical Sciences offers a comprehensive mathematics program for those students who wish to:

a. improve job-related mathematics skills
b. study mathematics for self-interest
c. study mathematics for use in another discipline
d. obtain a Vocational Certificate
e. obtain an Associate of Arts Degree
f. obtain an Associate of Applied Science Degree
g. obtain a Bachelor of Arts Degree
h. obtain a Bachelor of Science Degree

BACHELOR OF ARTS, MATHEMATICS
BACHELOR OF SCIENCE, MATHEMATICS

ADMISSION REQUIREMENTS

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

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

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

B. GENERAL EDUCATION REQUIREMENTS

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

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

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

D. MAJOR REQUIREMENTS

Students working toward a degree in Mathematics can choose from three options.

BACHELOR OF ARTS, MATHEMATICS
BACHELOR OF SCIENCE, MATHEMATICS

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

BACHELOR OF ARTS, MATHEMATICS FOR TEACHER CERTIFICATION

1. Complete the following courses (29 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 A303	Introduction to Modern Algebra	3
MATH A305	Geometry	3
MATH A314	Linear Algebra	3
MATH A420	Foundations of Mathematics	3

2. Complete 9 additional upper division credits in approved courses using advanced mathematics. 9
3. Students preparing to teach mathematics should consult the School of Education concerning university programs leading to mathematics teacher certification.
4. The program, including electives must be developed with an academic advisor from the Mathematical Sciences Department.
5. A minimum of 144 credits is required for the degree, of which 42 credits must be upper-division.

MATHEMATICS MINOR

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

MUSIC

INTRODUCTION

Music is among the expressive arts. It is related both historically and philosophically to the existence of humankind.

The music program is intended to give students a diverse preparation, increasing musical breadth and intensifying musical experience. The program has as its goal a well-rounded musical education that demonstrates the interrelationship of music history, theory, and performance, and develops qualified musical leaders in schools and communities across the nation.

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 Master of Arts in Teaching (MAT) graduate program which completes the certification requirements for Music K-12. The five-year/two-degree plan offers the student extensive training in music combined with education course work at the graduate level.

BACHELOR OF ARTS, MUSIC

BACHELOR OF MUSIC, PERFORMANCE

BACHELOR OF 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 BA Requirements.

1. Complete required music courses:

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

NOTE: four semesters of Master Class are required.

2. Music majors may not enroll in upper-division academic courses (MUS A331, A420-A424, A431, or A432) until they have passed the piano proficiency exam by jury.
3. 67 credits must be completed outside Music.
4. Students must select, or have completed, enough upper division electives to meet UAA's General University Requirement of 42 upper division credits.
5. A total of 120 credits is required for the degree, of which 42 credits must be upper division.

ADDITIONAL MAJOR REQUIREMENTS:

PERFORMANCE MAJOR, BM

1. Complete required music courses:

MUS A161-462	Private Lessons (on major instrument)	16
MUS A301B, A302B, A303B, A307B, or A409B	Ensembles*	16

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

MUS A466, A467, A468 , A469 or A408	Master Class	8-16
MUS A331	Form and Analysis	3
MUS A381	Choral Conducting (2)	2
	or	
MUS A382	Instrumental Conducting (2)	

2. Select 12 upper-division credits from the following:

MUS A420	Medieval and Renaissance Music	3
MUS A421	Music in the Baroque Period	3
MUS A422	Music in the Classical Period	3
MUS A423	Music in the Romantic Period	3
MUS A424	Music in the 20th Century	3
MUS A431	Counterpoint	3
MUS A432	Orchestration	3

3. Music majors must have passed the piano proficiency exam by jury before enrolling in private lessons at the MUS A361 level.
4. It is recommended that students select a two semester language sequence to satisfy GER Humanities requirement.
5. A total of 122-130 credits is required for the degree, of which 42 credits must be upper-division.

ADDITIONAL MAJOR REQUIREMENTS:

EMPHASIS IN MUSIC EDUCATION, BM

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
	or	
MUS A382	Instrumental Conducting (2)	
MUS A420-A424	Music History Elective	3
MUS A432	Orchestration	3
MUS A466, A467, A468, A469, A408B	Master Class	8

2. It is recommended that students select HIST A341 as a GER Social Science elective.
3. Music majors must have passed the piano proficiency exam by jury before enrolling in private lessons at the MUS A361 level.
4. A total of 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 the one-year Master of Arts in Teaching (MAT) program. Admission to the MAT program is limited.
6. UAA's graduate application for admission into the MAT must be completed by MARCH 1, for admission to the program the following Fall. 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 MAT program.
8. Students must take either the GRE or PPST and the NTE in music for admission to the MAT. This should be done in the Fall semester, the year before you intend to start the MAT program.
9. The School of Education recommends that students who intend to enter the MAT program take ED A626 and ED A627 before entering the MAT to free up the second semester which is student teaching.
10. Students seeking certification should consult the School of Education (SOE) for an application packet and a detailed description of the MAT program.

MUSIC MINOR

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 orA222	3
MUS A301B, A302B, A303B, A307B, or A409B	4-6
MUS A161-A162	2
MUS A466, A467, A468, A469 or A408B	2 or 4

NOTE: two semesters of Master Class required.

NATURAL SCIENCES

INTRODUCTION

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

The Natural Sciences program is administered by the Department of Biological Sciences. For further information about the Natural Sciences program, contact the Chairperson of the Department of Biological Sciences. Upon acceptance into the major, an advisor will be assigned in Biology and Chemistry or Geology, according to the student's declared area of emphasis.

BACHELOR OF SCIENCE, NATURAL SCIENCES

ADMISSION REQUIREMENTS

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

ACADEMIC PROGRESS

In order to graduate with a BS in Natural Sciences, all courses covered under "Major Requirements" for a BS in Natural Sciences must be completed with a grade of "C" or better. Students who audit a course intended to meet the Natural Sciences degree requirements or who are unable to earn a grade of "C" or better in the course may repeat the course. All prerequisites for courses used to meet the Natural Sciences degree requirements must be completed with a grade of "C" or better.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

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

B. GENERAL EDUCATION REQUIREMENTS

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

Note: Major requirements may also be used to satisfy the General Education Requirements.

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):

BIOL A105	Fundamentals of Biology I (4)
	and
BIOL A106	Fundamentals of Biology II (4)
	or
CHEM A105/L	General Chemistry I (4)
	and
CHEM A106/L	General Chemistry II (4)
	or
GEOL A111	Physical Geology (4)
	and
GEOL A112	Historical Geology (4)
	or
PHYS A123/L	Basic Physics I (4)
	and
PHYS A124/L	Basic Physics II (4)

Note: It is recommended that the three science course sequences be completed in the first two years of study. For students whose emphasis lies in the area of the biological sciences, it is recommended that BIOL A219 also be completed within the first two years of study, as it is a prerequisite to several upper-division biology courses.

2. Complete an additional 50 science credits from at least two science disciplines, of which at least 35 credits must be upper-division. UAA science 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	Natural Resource Management
Computer Sciences	Mathematics
Environmental Sciences	Wildlife Management
Engineering	Oceanography
Health Sciences	Psychology

Note: Credit for laboratory, internship, or clinical practicum courses will be awarded on an individual basis with the general rule of one credit for three lab hours applying in most cases.

3. Courses taken to meet the 50 credit Natural Sciences major degree requirement must be chosen with the approval of your advisor.
4. Submit a Program of Study signed by your advisor to Enrollment Services Office during the semester prior to the semester in which you plan to graduate. All courses listed in the Program of Study must be approved by the formal advisor before submission to the Enrollment Services Office.
5. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

PHILOSOPHY

INTRODUCTION

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.

PHILOSOPHY MINOR

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):

PHIL A101	Introduction to Logic	3
PHIL A201	Introduction to Philosophy	3
PHIL A211	History of Philosophy I	3
PHIL A212	History of Philosophy II	3

2. Complete a minimum of 6 credits from the list below: 6

PHIL A301	Ethics (3)
PHIL A310	Philosophy of Love (3)
PHIL A320	Existentialism (3)
PHIL A401	Aesthetics (3)
PHIL A421	Philosophy of the Social Sciences (3)

POLITICAL SCIENCE

INTRODUCTION

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. They are encouraged to take a broad range of courses in the liberal arts.

The Department also offers a Political Science minor with an emphasis in Political Science and an emphasis in Public Administration. Students selecting the Political Science emphasis choose courses in four of the five areas or develop a specialization in political science which complements their major field. Students selecting the Public Administration emphasis take courses in public administration, public policy, and organization theory.

The Department welcomes all students who want to learn more about politics. It reserves its honors for majors who earn qualifying marks both in a senior seminar and on a comprehensive examination.

HONORS IN POLITICAL SCIENCE

Students majoring in Political Science are eligible to graduate with Departmental Honors if they satisfy all of the following requirements:

1. Meet the requirements for a BA degree in Political Science.
2. Maintain a grade point average of 3.50 or above in courses applicable to the degree requirements.
3. Complete PS A490, Studies in Politics in the final spring term of study with an honor grade ("A" or "B"). This course serves as the senior seminar.
4. Receive an honors score (based upon criteria established by the Department) on a comprehensive examination for majors in their final semester.

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 meet General Education Requirements for Political Science majors are designated by a dagger (†) after their titles. Courses which meet College of Arts and Sciences requirements for Political Science majors are designated by a section mark (§) after their titles.

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

PS A101	Introduction to American Government§	3
PS A102	Introduction to Political Science§	3
PS/SOC A361	Social Science Research Methods	3
PS A301	Comparative Political Economy	3
PS A330	American Political Tradition	3
PS A492	Senior Seminar in Politics	3

2. Complete one starred (*) course from each of the five areas below (15 credits): 15

Comparative Politics

*PS A311	Comparative Politics (3)
PS A312	Comparative Politics: Case Studies (3)
PS A411	Tribes, Nations, and Peoples (3)
PS A490	Studies in Politics (1-3)

International Relations

*PS A321	International Relations (3)
*PS A322	United States Foreign Policy (3)
PS A324	Model United Nations (1/3)
PS/HIST A421	The Rise and Fall of Great Powers (3)
PS A424	International Law and Organization (3)
PS A490	Studies in Politics (1-3)

Political Philosophy

*PS A331	Political Philosophy (3)
*PS A332	History of Political Philosophy I: Classical§ (3)
*PS A333	History of Political Philosophy II: Modern§ (3)
PS A432	Contemporary Political Thought (3)
PS A490	Studies in Politics (1-3)

American Politics

*PS A341	Congress (3)
*PS A342	The American Presidency (3)
PS/JUST A343	Constitutional Law (3)
PS A344	State and Local Politics (3)
PS A345	Alaska Government and Politics (3)
PS A346	Alaska Native Politics (3)
PS A347	Public Administration (3)
PS A348	Public Policy (3)
PS A490	Studies in Politics (1-3)

Political Behavior

*PS/SOC A351	Political Sociology (3)	3
	or	
PS A353	Political Behavior, Participation and Democracy (3)	
PS A453	Organization Theory (3)	
PS A490	Studies in Politics (1-3)	
PS A495	Internship in Political Science (1-3)	

3. Complete 6 credits in additional upper-division Political Science courses from one of the five areas listed above. PS A490 may be repeated with different subtitle.
4. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

POLITICAL SCIENCE MINOR

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 requirements are designated by a pound sign (#) after their titles. For other courses in Political Science which meet General Education Requirements and/or College of Arts and Sciences requirements, see the beginning of this chapter.

Political Science

Introductory courses (6 credits):

PS A101	Introduction to American Government #	3
PS A102	Introduction to Political Science #	3
Upper-division Political Science courses		12

Public Administration

Introductory courses (6 credits):

PS A101	Introduction to American Government #	3
PS A102	Introduction to Political Science #	3

Additional courses, as follows (12 credits):

PS A347	Public Administration	3
PS A348	Public Policy	3
PS A453	Organization Theory	3
One additional starred (*) course from one of the areas listed in item 2 above under major requirements.		3

Note: Political Science majors who earn a Political Science minor with an emphasis in Public Administration may not count upper-division courses required for the minor (i.e., PS A347, PS A348, or PS A453) toward the major requirements in item 3 above for additional upper-division credits in Political Science.

PSYCHOLOGY

INTRODUCTION

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.
3. Take Systems and Theories of Psychology (PSY A412).
4. Take Research Methods in Experimental Psychology (PSY A420).
5. Complete PSY A499 Senior Thesis . The thesis project must be approved in advance by the Undergraduate Studies Committee and carried out by following applicable departmental guidelines.
6. Attain a score at or above the 75th percentile on the Psychology Specialty Test of the Graduate Record Exam. (Allow six weeks for scores to reach the Department).
7. Students intending to graduate with Departmental Honors must notify the Departmental Honors Committee, in writing, on or before the date they file their Application for Graduation with the Enrollment Services Office.

BACHELOR OF ARTS, PSYCHOLOGY

BACHELOR OF SCIENCE, PSYCHOLOGY

ADMISSION REQUIREMENTS

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

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

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

B. GENERAL EDUCATION REQUIREMENTS

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

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

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

D. MAJOR REQUIREMENTS (41 CREDITS)

1. Complete these required core courses (29 credits):

PSY A111	General Psychology	3
PSY A150	Human Development	3
PSY A260	Statistics for Psychology	3
PSY A261	Introduction to Experimental Psychology	4
PSY A345	Psychology of Abnormal Behavior	3
PSY A355	Learning and Cognition	4
PSY A368	Personality Theories	3
PSY A370	Physiological Psychology	3
PSY A375	Psychology of Social Behavior	3

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

PSYCHOLOGY MINOR

Students majoring in another subject who wish to minor in Psychology must complete a total of 18 credits of Psychology. Requirements include the following:

1. PSY A111 General Psychology	3
2. Three additional courses required for a major in Psychology	9
3. Two upper division elective Psychology courses	6

SOCIOLOGY

INTRODUCTION

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 view 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, and/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.

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/PSY A353	Application of Statistics to Social Sciences	4
SOC/PS A361	Social Science Research Methods	3
SOC A402	Theories of Sociology	3
SOC A488	Capstone Seminar	3

2. Complete one of the following options:

Option I

Family and Life Cycles (18 credits):

For majors specializing in small groups and family systems:

1. Complete two general background courses (6 credits): 6
   - SOC A275 Social Psychology (3)
   - SOC A363 Social Stratification (3)
   - SOC A405 Social Change (3)
2. 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)
3. Select either the Academic Emphasis or the Applied Emphasis: 6
   - A. For the Academic Emphasis, complete two additional courses from item 2 core area courses (above).
   - B. For the Applied Emphasis, complete two courses from the following application courses:
     - HUMS/SWK A106 Introduction to Social Welfare (3)
     - SOC A142 Sociology of Sexuality (3)
     - SOC/JUST A454 Evaluation Research and Change (3)
     - SOC A487 Sociology Practicum (3) (May be repeated)

Option II

Community and Change (18 credits):

For majors specializing in rural community and urban systems.

1. 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)
2. 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/SWK A407 Formal Organizations (3)
   - SOC A408 American Minority Groups (3)
3. Select either the Academic Emphasis or the Applied Emphasis:
   - A. For the Academic Emphasis, complete two additional courses in item 2 core area courses (above).
   - B. For the Applied Emphasis, complete required applications courses:
     - SOC/JUST A454 Evaluation Research and Change(3)
     - SOC A487 Sociology Practicum (3) (May be repeated)

Option III
General Sociology (18 credits):
For majors desiring a general sociology degree.

1. Complete three courses (9 credits) from the following:
   - SOC A201 Social Problems and Solutions (3)
   - SOC A343 Sociology of Deviant Behavior (3)
   - SOC A347 Sociology of Religion (3)
   - SOC A351 Political Sociology (3)
   - SOC A404 Environmental Sociology (3)
   - SOC/SWK A407 Formal Organizations (3)
2. Complete an additional three courses from the following: 9
   - SOC A275 Social Psychology (3)
   - SOC A363 Social Stratification (3)
   - SOC A370 Medical Sociology (3)
   - SOC A387 Gay and Lesbian Lifestyles (3)
   - SOC A405 Social Change (3)
   - SOC A408 American Minority Groups (3)
3. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

SOCIOLOGY MINOR

Students majoring in another subject who wish to minor in Sociology must complete the following requirements. A total of 21 credits is required for the minor.

SOC A101	Introduction to Sociology	3
SOC/PS A361	Social Science Research Methods	3
SOC A402	Theories of Sociology	3
Upper-division Sociology electives		6
Sociology electives, any level		6

THEATRE

INTRODUCTION

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):

THR A111	Introduction to the Theatre	3
THR A121	Acting I	3
THR A131	Theatrical Production Techniques	3
THR A141	Stagecraft I	3
THR A221	Acting II: Movement for the Actor	3
THR A243	Scene Design	3
THR A257	Costume Design and Construction I	3
THR A311	Representative Plays I (3)	3
	or	
THR A312	Representative Plays II (3)	
THR A331	Directing I	3
THR A411	History of the Theatre I	3
THR A412	History of the Theatre II	3

2. Choose two of the following Performance Area courses: 6
   - THR A315 Playwriting Workshop (3)
   - THR A321 Characterization (3)
   - THR A324 Voice for the Actor (3)
   - THR A325 Theatre Speech (3)
   - THR A328 Acting Shakespeare (3)
   - THR A329 Combat for the Stage (3)
   - THR A413 Dramatic Theory and Criticism (3)
   - THR A435 Directing II (3)
3. Choose one of the following Design Area courses: 3
   - THR A341 Stagecraft II (3)
   - THR A343 Scenic Design II (3)
   - THR A347 Lighting Design (3)
   - THR A357 Costume Design II (3)
4. Complete the following Technical Area courses:
   - THR A295 Theatre Practicum: Technical (1-3) 2
   - THR A495 Advanced Theatre Practicum: Technical (1-3) 2
5. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

THEATRE MINOR

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

- THR A111 Introduction to the Theatre 3
- THR A121 Acting I 3
- THR A141 Stagecraft I 3
- THR A311 Representative Plays I (3) 3
  or
  THR A312 Representative Plays II (3)
- THR A411 History of the Theatre I (3) 3
  or
  THR A412 History of the Theatre II (3)
- Theatre electives 3

WOMEN'S STUDIES

INTRODUCTION

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.

WOMEN'S STUDIES MINOR

Students majoring in another subject who wish to minor in Women's Studies must complete the following requirements. A total of 18 credits is required for the minor, of which 9 must be upper-division.

1. Complete these required courses (12 credits):
   - ANTH A270 Cross-Cultural Perspectives on Women (3) 3
     or
     PSY A313 Psychology of Women (3)
   - ENGL A304 Topics in Women's Literature (3) 3
     or
     HIST A381 American Women's History to 1870 (3)
     or
     HIST A382 American Women's History Since 1870 (3)
   - SOC A242 An Introduction to Marriage, Family and Intimate Relationships (3) 3
     or
     SOC A377 Men, Women and Change (3)
   - WS A200 Introduction to Women's Studies 3
2. Complete 6 credits of pre-approved electives. Any course on the above list which has not been taken as a requirement may be taken as an elective. For example, if SOC A242, An Introduction to Marriage, Family and Intimate Relationships has been taken to satisfy a Women's Studies minor requirement, SOC A377, Men, Women and Change, is available for elective credit. Other pre-approved electives are: 6
   - ENGL A150 Women Writers (3)
   - ENGL A303 Women's Autobiography (3)
   - HUMS A150 Marriage, Divorce and Intimate Relationships in the 90's (3)
   - HUMS A350 Men and Masculinity (3)
   - PSY A203 Assertiveness Training (3)
   - SOC A342 Sexual, Marital and Family Lifestyles (3)
   - SOC A452 Violence in Intimate Relationships (3)
   - SWK A445 Women's Issues in the Human Services (3)
   - WS A401 Seminar in Women's Studies (1-3)

Other courses may apply to the minor with approval of Women's Studies Co-Directors.

COLLEGE OF BUSINESS AND PUBLIC POLICY

INTRODUCTION

The College of Business and Public Policy has five departments: (1) Accounting, (2) Business Administration, and (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, Masters of Business Administration and a Masters of Public Administration 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's Business Administration Degree programs are accredited by the International Association in Management Education (AACSB).

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.

ACCOUNTING

INTRODUCTION

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 and Matanuska-Susitna College campuses.

ASSOCIATE OF APPLIED SCIENCE, ACCOUNTING

ADMISSION REQUIREMENTS

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

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science Requirements (15 credits) located at the beginning of this chapter. To provide maximum transferability to the BBA in Accounting, it is recommended that students consider the Bachelor of Business Administration general education and business core requirements when selecting courses to fulfill the Associate of Applied Science general requirements and business electives.

MAJOR REQUIREMENTS

1. Complete the following required courses (33 credits):

ACCT A101	Principles of Financial Accounting I	3
ACCT A102	Principles of Financial Accounting II	3
ACCT A202*	Principles of Managerial Accounting	3
ACCT A210	Income Tax Preparation	3
ACCT A222	Introduction to Computers and Accounting	3
ACCT A225	Accounting for Payroll, Receivables and Payables	3
ACCT A230	Financial Statement Preparation and Presentation	3
BA A151	Introduction to Business	3
BA/JUST A241	Business Law I	3
CIOS A110	Computer Concepts in Business	3
ECON A201	Principles of Macroeconomics	3

**Student must pass MATH A105 ("C" or better) or successfully complete an equivalent Math Placement Test.*

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.

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
BA A273	3
CIOS A110	3
COMM A111	3
ECON A201 and A202	6
ENGL A111 and ENGL A211,A212, orA213	6
MATH A270 or A107	3-4

3. Completion of at least 9 credits that satisfy UAA General Education Requirements in the following areas : 9
   - Fine Arts
   - Humanities
   - Natural Sciences

Admission to Upper-division Status:

BBA students in Accounting, Business Administration, and Computer Information and Office Systems who do not meet the above standards may not take upper-division courses in ACCT, BA, or CIOS. Other students must meet course prerequisites.

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 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. A maximum of 9 ECON credits may be counted as being outside the business area; any additional ECON credits 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 (24 -26 credits):

1. The following courses must be completed with a "C" or better 1) before enrolling in the upper-division core courses below and 2) prior to graduating:

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
MATH A270	Applied Finite Mathematics for the Managerial Sciences (3)	3-4
	or	
MATH A107	College Algebra (4)	
MATH A272	Calculus for Managerial Sciences (3)	3-4
	or	
MATH A200	Calculus I (4)	

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 A272.

2. Complete these upper-division core courses (21 credits):

ACCT A316	Accounting Information Systems	3
BA A300	Organizational Theory and Behavior	3
BA A325	Corporate Finance	3
BA A343	Principles of Marketing	3
BA A377	Operations Management	3
CIOS A380	Managerial Presentations	3
BA A488	The Environment of Business	3

D. MAJOR REQUIREMENTS

1. Complete the following requirements (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/BAA241	Business Law I	3
Accounting electives*		6
Upper-division ECON elective or BA A375		3

*Required Accounting electives (6 credits) must be selected from the following courses:

ACCT A401	Advanced Accounting I (3)
ACCT A402	Advanced Accounting II (3)
ACCT A410	Advanced Income Tax (3)
ACCT A411	Estate and Trust Tax Law (3)
ACCT A425	Accounting for Alaskan Industries (3)
ACCT A430	Governmental and Non-Profit Accounting (3)
ACCT A442	Advanced Cost Accounting and Controllership (3)
ACCT A453	Internal Auditing (3)

2. A total of 121 credits is required for the degree, of which 45 credits must be upper-division.

ACCOUNTING MINOR

Students majoring in another subject 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

BUSINESS ADMINISTRATION

INTRODUCTION

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

CERTIFICATE
SMALL BUSINESS MANAGEMENT

This Small Business Management certificate is offered only through Kenai Peninsula College.

The one-year Small Business Management certificate enables the student to explore business career options and gives entry-level job skills and/or upgrades skills for employment advancement. It also serves as the first year of training towards the two-year Associate of Applied Science in Small Business Administration.

1. Complete the following communications requirements (6 credits):

ENGL A111	Methods of Written Communication	3
Select 3 credits from the following:		3
ENGL A211	Academic Writing about Literature (3)	
ENGL A212	Technical Writing (3)	
ENGL A213	Writing in Academic Disciplines (3)	
CIOS A262	Written Business Communications (3)	

2. Complete the following requirements:

A.	Select 3 credits from the following:	3
ACCT A101*	Principles of Financial Accounting I (3)	
ACCT A201	Principles of Financial Accounting (3)	
ACCT A120	Bookkeeping for Business I (3)	
B.	Select 3 credits from the following:	3
ACCT A102*	Principles of Financial Accounting II (3)	
ACCT A202	Principles of Managerial Accounting (3)	
ACCT A222	Introduction to Computers and Accounting (3)	

**Students taking ACCT A101 and ACCT A102 cannot use ACCT A201 for credit for the Small Business Management certificate.*

3. Complete the following:

BA A166	Small Business Management	3
BA A231	Fundamentals of Supervision	3

4. Select 6 credits from the following: 6

ACCT	Accounting
BA	Business Administration
CIOS	Computer Information and Office Systems
ECON	Economics

5. With advisor's approval, complete 3-5 elective credits.
   MATH A102 Business Math, or higher is recommended. 3-5
6. A total of 27-29 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, GENERAL BUSINESS

This degree is offered only through Kodiak College.

ADMISSION REQUIREMENTS

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

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses (24 credits):

ACCT A101	Principles of Financial Accounting I	3
ACCT A102	Principles of Financial Accounting II	3
BA A151	Introduction to Business	3
BA/JUST A241	Business Law I	3
BA/JUST A242	Business Law II	3
CIOS A105A	Introduction to PC Computers	1
CIOS A105B	Introduction to PC Applications	2
ECON A201	Principles of Macroeconomics	3
ECON A202	Principles of Microeconomics	3

2. Complete an additional 12 credits from any 100- or 200-level ACCT, BA, CS, ECON, or CIOS course. 12
3. Complete an additional 9 elective credits. 9
4. A total of 60 credits is required for the degree.

ASSOCIATE OF APPLIED SCIENCE, SMALL BUSINESS ADMINISTRATION

ADMISSION REQUIREMENTS

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

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter. To provide maximum transferability, it is recommended that students consider the Bachelor of Business Administration general education and business core requirements when selecting courses to fulfill the Associate of Applied Science general requirements.

MAJOR REQUIREMENTS

1. Complete the required support courses (12-16 credits):

ACCT A101	Principles of Financial Accounting I (3)	3-6
	and	
ACCT A102	Principles of Financial Accounting II (3)	
	or	
ACCT A201	Principles of Financial Accounting (3)	
ACCT A202	Principles of Managerial Accounting	3
CIOS A110	Computer Concepts in Business	3
MATH A105	Intermediate Algebra (3)	3-4
	or	
MATH A107	College Algebra (4)	
	or	
MATH A270	Applied Finite Mathematics for the Managerial Sciences (3)	

Note: MATH A105 will not satisfy the Quantitative Skills General Education Requirement for the baccalaureate degree.

2. Complete the required BA core courses (21 credits):

BA A151	Introduction to Business	3
BA A166	Small Business Management	3
BA A231	Fundamentals of Supervision	3
BA A233	Fundamentals of Financial Management	3
BA/JUST A241	Business Law I	3
BA A260	Marketing Practices	3
BA A264	Personal Selling	3

3. Complete 8-12 credits of electives from the following: 8-12

BA A105	Principles of Banking (3)
BA A131	Personal Finance (3)
BA A204	Introduction to Money and Banking (3)
BA A206	Analyzing Financial Statements (3)
BA A209	Consumer Lending (3)
BA A232	Fundamentals of Organizational Management (3)
BA/JUST A242	Business Law II (3)
BA A261	Advertising and Sales Promotion (3)
BA A262	Public Relations (3)
BA A263	Practices in Consumer Behavior (3)

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

BACHELOR OF BUSINESS ADMINISTRATION

Major areas: Economics
Finance
Management
Marketing

The Bachelor of Business Administration (BBA) is a professional degree offered through the College of Business and Public Policy. It is designed to prepare students to pursue meaningful and rewarding careers in management. The curriculum for the BBA degree is management oriented rather than highly specialized. Concepts that are relevant to both small and large firms and both the public and private sectors are emphasized.

The four majors — Economics, Finance, Management, and Marketing, —are designed to prepare students to pursue careers in the private and public sectors. Local, state, national, and international firms, and not-for-profit organizations provide a ready market for graduates in each of these four major areas of concentration.

ADMISSION REQUIREMENTS

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

ADMISSION REQUIREMENTS TO UPPER-DIVISION COURSES

1. Completion of at least 39-40 credits with a cumulative GPA of 2.25 or higher.
2. Completion of each of the following courses with a grade of "C" or better (30-31 credits):

ACCT A201 and A202	6
BAA273	3
CIOS A110	3
ECON A201 and A202	6
ENGL A111 and ENGL A211, A212, or A213	6
MATH A270 or A107	3-4
COMM A111	3

3. Completion of at least 9 credits that satisfy UAA General Education Requirements in the following areas: 9
   - Fine Arts
   - Humanities
   - Natural Sciences

Admission to Upper-division Status:

BBA students in Accounting, Business Administration, and Computer Information and Office Systems who do not meet the above standards may not take upper-division courses in ACCT, BA, or CIOS. Other students must meet course prerequisites.

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, MANAGEMENT AND MARKETING 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. A maximum of 9 ECON credits may be counted as being outside the business area; any additional ECON credits 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 Business core requirements (24-26 credits):

1. The following courses must be completed with a "C" or better 1) before enrolling in the upper-division core courses below and 2) prior to graduation:

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
MATH A270	Applied Finite Mathematics for the Managerial Sciences (3)	3-4
	or	
MATH A107	College Algebra (4)	
MATH A272	Calculus for Managerial Sciences (3)	3-4
	or	
MATH A200	Calculus I (4)	

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 A272.

2. Complete these upper-division core courses (21 credits):

BA A300	Organizational Theory and Behavior	3
BA A325	Corporate Finance	3
BA A343	Principles of Marketing	3
BA A377	Operations Management	3
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):

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

**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.*

2. A total of 121 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

Finance Major

1. Complete the following requirements (15 credits):

BA A375	Statistics for Business and Economics (3)	3
	or	
ECON A429	Business Forecasting (3)	
BA A425	Advanced Corporate Financial Problems	3
BA A426	Financial Institutions	3
BA A427	International Finance	3
BA A450	Investment Management	3

2. Complete the following:

Upper-division Business electives 12
(At least 9 credits must be in ECON, ACCT, or Real Estate.)

3. International Option (18-21 credits):
Students majoring in Finance may further internationalize their degree program by completing:

A. Language Courses 9-12

(Three courses designed to enhance linguistic competence in foreign languages, except Latin and Language Self Study. It must include a minimum of two semester course sequence).

B. International economics, politics, law and/or culture courses (to be chosen in consultation with a Business Administration advisor). 9

4. A total of 121 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

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

Management Major

1. Complete the following requirements (27 credits):

BA A361	Human Resource Management	3
BA A461	Negotiations and Conflict Management	3
BA A462	Strategic Management	3
BA A481	Applications in Management	3
BA A489	Entrepreneurship and New Business Planning	3
Upper-division electives in ACCT, BA, CIOS or ECON		12

2. International Option (21 credits):
Students majoring in Management may further internationalize their degree program by completing:

A. BA A490 International Comparative Management 3
B. Language Courses 9

(Three courses designed to enhance linguistic competence in foreign languages, except Latin and Language Self Study. It must include a minimum of two semester course sequence).

C. International economics, politics, law and/or culture courses (to be chosen in consultation with a Business Administration advisor). 9

3. A total of 121 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

See degree check sheets available in in College of Business and Public Policy.

Marketing Major

1. Complete the following courses (21 credits):

BAA264	Personal Selling	3
BA A310	Consumer Behavior	3
BA A327	Product Promotion Strategies	3
BA A441	Retailing Management	3
BA A445	Marketing Research	3
BA A460	Marketing Management	3
ECON A429	Business Forecasting (3)	3
	or	
BA A375	Statistics for Business and Economics (3)	

2. Upper-division Business electives 6

3. International Option (21 credits):
   Students majoring in Marketing may further internationalize by completing the following:

A. BA A447	International Marketing	3
B. Foreign Language Courses		9

(Three courses designed to enhance linguistic competence in foreign languages, except Latin and Language Self Study. It must include a minimum of two semester course sequence).

C. International economics, politics, law and/or culture courses (to be chosen in consultation with Business Administration advisor).	9

4. A total of 121 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

See degree check sheets available in College of Business and Public Policy.

BUSINESS ADMINISTRATION MINOR

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

COMPUTER INFORMATION AND OFFICE SYSTEMS

INTRODUCTION

The Computer Information and Office Systems Department provides educational opportunities in computer information systems and office systems and technology through certificate and 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 four computerized classrooms and state-of-the-art open laboratory facilities. These computer classrooms and labs provide students with hands-on learning experiences using both Intel Pentium and Apple workstations supported by NT and UNIX 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 and office-related courses are taught using both structured instructor-led and self-guided tutorial approaches. The Technology Learning Center (TLC) provides an open-entry/open-exit environment for students to learn a variety of skills on a self-paced basis. In these courses students begin at a level appropriate for them, work at their own pace, and receive the individual instruction needed to succeed.

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, 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 also has a successful placement program for its graduates.

Office Management and Technology

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 three emphases in the Associate of Applied Science (OMT) degree: Secretarial, Legal 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, legal secretarial, 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, including secretaries, file clerks, receptionists, typists, word/information processors, and office supervisors. 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: 3

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: 3-6

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)

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

4. Complete 1 credit from the following: 1

CIOS A115	Selected Introductory Word Processing Applications (1)
CIOS A215	Selected Advanced Word Processing Applications (1)

5. Complete 1-3 credits from the following: 1-3

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.

ASSOCIATE OF APPLIED SCIENCE, BUSINESS COMPUTER INFORMATION SYSTEMS

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Program Admission Requirements at the beginning of this chapter. English and Math Placement Tests are given by the Advising and Counseling Center. Your faculty advisor will assist you by recommending the proper levels of entry and appropriate CIOS course plan. Students who are not proficient in typing (a minimum of 30 wpm) should enroll in CIOS A100A Keyboarding I:A. Students must be able to read and comprehend technical manuals and texts.

ACADEMIC PROGRESS

A grade of "C" or higher is required to continue in each higher CIOS course. To take upper-division Information Systems program courses, students must complete lower-division degree requirements and apply for upper-division standing.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science Requirements (15 credits) located at the beginning of this chapter. ENGL A212 is recommended. For the general requirements, it is strongly recommended that students select 6 credits from Humanities, Math and Natural Sciences or Social Sciences that meet both the AAS and the Baccalaureate General Education Requirements.

MAJOR REQUIREMENTS

1. Complete the breadth requirement (21-22 credits):

ACCT A201	Principles of Financial Accounting	3
ACCT A202	Principles of Managerial Accounting	3
CIOS A110	Computer Concepts in Business	3
ECON A201	Principles of Macroeconomics	3
ECON A202	Principles of Microeconomics	3
MATH A270	Applied Finite Mathematics for the Managerial Sciences (3)	3-4
	or	
MATH A107	College Algebra (4)	
General Education Requirement Elective*		3

**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):

BAA273	Introduction to Statistics for Business and Economics	3

3. Complete CIOS required courses (18 credits):

CIOS A185	Introduction to Programming Business Applications	3
CIOS A201	Programming Business Applications	3
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.

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	3
CIOS A161	Business Math	3
CIOS A165	Office Procedures	3
CIOS A262*	Written Business Communications	3
CIOS A264	Interpersonal Skills in Organizations	3
CIOS A276	Records Management	3

**If CIOS A262 was taken to meet the Written Communications General Education Requirement, then complete 3 elective CIOS credits of your choice.*

2. Complete 18 credits from the following:

ACCT A101	Principles of Financial Accounting I	3
ACCT A102	Principles of Financial Accounting II	3
ACCT A120	Bookkeeping for Business I	3
BA A131	Personal Finance	3
CIOS A111A	Introduction to LOTUS in DOS	1
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: 6

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)

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

3. Complete 1-3 credits from the following: 1-3

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: 3

CIOS A105	Introduction to PC Computers (3) and Applications
CIOS A110	Computer Concepts in Business (3)

5. Complete 1-3 credits from the following: 1-3

CIOS A115	Selected Introductory Word Processing Applications (1)
CIOS A215	Selected Advanced Word Processing Applications (1)

6. Complete 3 credits from the following: 3

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: 3

ACCT A101	Principles of Financial Accounting I (3)
ACCT A120	Bookkeeping for Business I (3)
ACCT A201	Principles of Financial Accounting (3)

8. Complete 3 credits from the following: 3

CIOS A107	Macintosh Computer and Applications (3)
CIOS A107A	Introduction to Macintosh Computers (1)
CIOS A113C	Introduction to Mac Operating System (1)
CIOS A116A	Introduction to Desktop Publishing on Mac (1)
	or
CIOS A116B	Introduction to Desktop Publishing on IBM (1)
	or
CIOS A338	Desktop Publishing and Design (3)

9. Complete 7-9 credits from the following: 7-9

CIOS A166	Filing (1)
	or
CIOS A276	Records Management (3)
CIOS A263	Professional Secretarial Procedures (3) 3
	or
BAA231	Fundamentals of Supervision (3)
BA A151	Introduction to Business (3) 3
	or
BA A166	Small Business Management (3)

10. Complete 0-5 elective credits to total 60 credits. 0-5

CIOS A168	Shorthand (3)
CIOS A170	Calculators (1)
CIOS A192	Seminars in Office Management and Technology (1)

11. A minimum of 60 credits is required for the degree.

C. Legal Secretarial Emphasis

1. Complete 13 credits from the following:

CIOS A160	Business English	3
CIOS A161	Business Math	3
CIOS A165	Office Procedures	3
CIOS A167	Proofreading	1
CIOS A264	Interpersonal Skills in Organizations	3

2. Complete 1-3 credits from the following: 1-3

CIOS A250A	Machine Transcription A (1)
CIOS A251	Medical Transcription (3)
CIOS A252	Legal Transcription (1-3)

3. Complete 3 credits from the following: 3

CIOS A105	Introduction to PC Computers and Applications (3)
CIOS A110	Computer Concepts in Business (3)

4. Complete 1-3 credits from the following: 1-3

CIOS A115	Selected Introductory Word Processing Applications (1)
CIOS A215	Selected Advanced Word Processing Applications (1)

5. Complete 3 credits from the following:

CIOS A262*	Written Business Communications	3

**If CIOS A262 was taken to meet the Written Communications General Education Requirement, then complete 3 elective CIOS credits of your choice.*

6. Complete 3 credits from the following: 3

ACCT A101	Principles of Financial Accounting I (3)
ACCT A120	Bookkeeping for Business I (3)
ACCT A201	Principles of Financial Accounting (3)

7. Complete 18 credits from the following: 18

CIOS A215D	Advanced WordPerfect in DOS (1)
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)
	or
BA A151	Introduction to Business (3)
	or
BAA231	Fundamentals of Supervision (3)
PARL A101	Introduction to Law (3)
	or
JUST A110	Introduction to Justice (3)
	or
BA/JUST A241	Business Law I (3)

8. Complete the following (3 credits):

CIOS A295C	Office Systems Internship (1-6)	3
	or	

One year work experience in an Alaska law office within the last five years may be substituted for CIOS A295C. If work experience is substituted, complete CIOS elective credits to equal 60 credits.

9. A minimum of 60 credits is required for the degree.

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	3
ECON A201 and A202	6
ENGL A111 and ENGL A211, A212, or A213	6
MATH A270 or A107	3-4

3. Completion of at least 9 credits that satisfy UAA General Education Requirements in the following areas: 9

Fine Arts
Humanities
Natural Sciences

Admission to Upper-division Status:

BBA students in Accounting, Economics, Finance, Management Information and Marketing who do not meet the above standards may not take upper-division courses in ACCT, BA, CIOS or ECON. Other students must meet upper-division standing requirements in their field of study and meet course prerequisites.

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 MAJORS

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. A maximum of 9 ECON credits may be counted as being outside the business area; any additional ECON credits 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 Business Core requirements (24-26):

1. The following courses must be completed with a "C" or better before enrolling in the upper-division core courses below and prior to graduating:

ACCT A201	Principles of Financial Accounting	3
ACCT A202	Principles of Managerial Accounting	3
BA A273	Introduction to Statistics for Business and Economics	3
CIOS A110	Computer Concepts in Business	3
ECON A201	Principles of Macroeconomics	3
ECON A202	Principles of Microeconomics	3
MATH A270	Applied Finite Mathematics for the Managerial Sciences (3)	3-4
	or	
MATH A107	College Algebra (4)	
MATH A272	Calculus for Managerial Sciences (3)	3-4
	or	
MATH A200	Calculus I (4)	

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 A272.

2. Complete these upper-division core courses (21 credits):

BA A300	Organizational Theory and Behavior	3
BA A325	Corporate Finance	3
BA A343	Principles of Marketing	3
BA A377	Operations Management	3
CIOS A380	Managerial Presentations	3
BA A488	The Environment of Business	3
CIOS A376	Management Information Systems	3

D. MAJOR REQUIREMENTS

1. Complete the following required courses (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 Communications 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. These may include, but are not limited to: 12

CIOS A315	Advanced Topics in Microcomputer Applications for Business (3)
CIOS A340	Client-Server Programming (3)
CIOS A360	Rapid Application of Development (3)
CIOS A361	Advanced C Programming and Unix Environment (3)
CIOS A365	Object Oriented (1-3)
CIOS A395	Programmer/Analyst Internship (1-6)
CIOS A420	Consulting and Training End Users (3)
CIOS A421	Multimedia Authoring (3)
CIOS A422	Website Design and Development (3)
CIOS A430	Decision Support and Expert Systems (3)
CIOS A445	Advanced Network Management (3)
CIOS A490	MIS Seminar/Project (3)
ECON A429	Business Forecasting (3)
CIOS A495	Systems Analyst/User-Support Internship (1-6)

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 124 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

COMPUTER INFORMATION SYSTEMS MINOR

Students majoring in another subject who wish to minor in Computer Information Systems (CIS) must complete the following requirements. A total of 18 credits is required for the minor, 12 of which must be upper-division.

CIOS A110	Computer Concepts in Business	3
CIOS A185	Introduction to Programming Business Applications	3
CIOS A330	Database Management Systems	3
CIOS A376*	Management Information Systems	3
Upper-division CIOS electives		6

All students pursuing a minor in CIS must apply to the College of Business and Public Policy for upper-division standing prior to taking any upper-division course in CIOS. Students pursuing a baccalaureate degree outside the College of Business and Public Policy with a minor in CIS can establish upper-division standing by going to the College of Business and Public Policy Student Information Office and certifying they have completed at least 54 credits in their degree program and have completed General Education Requirements of 6 credits of written communications, 3 credits of oral communication, 3 credits of college algebra (MATH107 or MATH A270 or equivalent), and 12 credits in GER courses in Fine Arts, Humanities, Social Sciences, or Natural Sciences. ECON A201 and ECON A202 for the Social Sciences General Education Requirement is recommended but not required.

**BBA degree students must take CIOS A310, instead of CIOS A376) to meet the requirements for the minor (CIOS A376 is already required in the business core).*

ECONOMICS

INTRODUCTION

The Economics department provides students with a systematic way of understanding activity in the world around them. Economics is a social science which studies how individuals, organizations, and governments make choices about the use of resources. A degree in economics gives students career opportunities in many fields and provides excellent preparation for those who wish to pursue advanced study in a variety of disciplines. The Economics department offers courses for both degree and non-degree-seeking students at the undergraduate and graduate levels. Students who wish to major in Economics may choose either the Bachelor of Arts or Bachelor of Business Administration degree. A minor in Economics is also offered.

HONORS IN ECONOMICS

Students majoring in economics are eligible to graduate with departmental honors if they satisfy all of the following requirements: 1) meet requirements for BA or BBA in Economics; 2) maintain a GPA of 3.5 in their major requirements; 3) complete with grade of "A" in either ECON A488 , Seminar in Economic Research, or a research paper 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 (36-37 credits):

BA A273	Introduction to Statistics for Business and Economics	3
ECON A201	Principles of Macroeconomics	3
ECON A202	Principles of Microeconomics	3
ECON A321	Intermediate Microeconomics	3
ECON A324	Intermediate Macroeconomics	3
ECON A350	Money and Banking	3
ECON A412	Econometrics (3)	3
	or	
ECON A430	Mathematics for Economists (3)	
MATH A272	Calculus for Managerial Sciences (3)	3-4
	or	
MATH A200	Calculus I (4)	
Upper-division Economics electives		12

**No more than a total of 6 credits earned in independent study or ECON A454, Economics Internship, may be used to satisfy requirements for the major.*

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.

ECONOMICS MINOR

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

COLLEGE OF HEALTH, EDUCATION, AND SOCIAL WELFARE

INTRODUCTION

The College of Health, Education and Social Welfare is comprised of the School of Education, the School of Nursing, the Department of Human Services, the Justice Center, and the Department 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 wellbeing 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.

SCHOOL OF EDUCATION

INTRODUCTION

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 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.

Currently, the elementary education program is a four-year undergraduate preparation while preparation as a secondary educator is a graduate, fifth-year MAT program. Admission into the School of Education for prospective elementary teachers generally occurs during the sophomore year; admission for prospective secondary educators requires prior completion of a baccalaureate degree in an approved content area. Specific details are presented under the relevant sections of the catalog.

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 program and a non-teaching baccalaureate degree option in physical education.

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.

Minimum credits required for the Bachelor of Education degree are 130. Students should be advised that total credits frequently exceed minimums because of prerequisite requirements, individually selected majors and minors, and areas of specialization and/or emphasis.

HIGH SCHOOL PREPARATION

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

EARLY CHILDHOOD DEVELOPMENT

INTRODUCTION

The Early Childhood Development program at UAA brings together the theory and practice of quality child care and the education of young children. The program is based on the nationally recognized Child Development Associate (CDA). Easy and clear articulation occurs from the nontranscripted CDA credential to the campus awarded Early Childhood Development Certificate (31 credits) to the Associate of Applied Science in Early Childhood Development (61 credits).

CERTIFICATE
EARLY CHILDHOOD DEVELOPMENT

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter. In order to be admitted to the Early Childhood Development Program, students must complete an application to the Early Childhood Development Certification Program. Applications may be obtained from the School of Education. To be admitted to the Early Childhood Development practicum courses (ECD A295A and ECD A295B), students must meet all requirements for and be admitted by an advisor into the practicum courses and have earned a grade of "C" or above in all ECD courses.

ACADEMIC PROGRESS

All students in the Early Childhood Development Certification Program must maintain a cumulative GPA of 2.0 or above in all ECD courses.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:

ECD A105	Introduction to the Field of Early Childhood	3
ECD A111	Safe Learning Environments	1
ECD A112	Healthy Learning Environments	1
ECD A113	Learning Environments	1
ECD A121	Physical Activities for Young Children	1
ECD A122	Cognitive Activities for Young Children	1
ECD A123	Communication	1
ECD A124	Creative Activities for Young Children	1
ECD A131	Guidance and Discipline	1
ECD A132	Social Development	1
ECD A211	Development of a Sense of Self	1
ECD A221	Families	1
ECD A222	Program Management	1
ECD A223	Exploring and Developing Personal Capabilities in Teaching	1
ECD A224	Professionalism	1
ECD A231	Screening	1
ECD A232	Assessment/Recording	1
ECD A233	Mainstreaming Preschool Children with Special Needs	1
ECD A295A	Practicum I	3
ECD A295B	Practicum II	3
DN A145	Child Nutrition	2
PSY A245	Child Development	3

2. A total of 31 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE,
EARLY CHILDHOOD DEVELOPMENT

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter. In order to be admitted to the Early Childhood Development Program, students must complete an application to the Associate of Applied Science Early Childhood Development Program. Applications may be obtained from the School of Education. To be admitted to the Early Childhood Development practicum courses (ECD A295A and ECD A295B), students must meet all requirements for and be admitted by an advisor into the practicum courses and have earned a grade of "C" or above in all ECD courses.

ACADEMIC PROGRESS

All students in the Associate of Applied Science Early Childhood Development Program must maintain a cumulative GPA of 2.0 or above in all ECD courses.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses:

ECD A105	Introduction to the Field of Early Childhood	3
ECD A111	Safe Learning Environments	1
ECD A112	Healthy Learning Environments	1
ECD A113	Learning Environments	1
ECD A121	Physical Activities for Young Children	1
ECD A122	Cognitive Activities for Young Children	1
ECD A123	Communication	1
ECD A124	Creative Activities for Young Children	1
ECD A131	Guidance and Discipline	1
ECD A132	Social Development	1
ECD A211	Development of a Sense of Self	1
ECD A221	Families	1
ECD A222	Program Management	1
ECD A223	Exploring and Developing Personal Capabilities in Teaching	1
ECD A224	Professionalism	1
ECD A231	Screening	1
ECD A232	Assessment/Recording	1
ECD A233	Mainstreaming Preschool Children with Special Needs	1
ECD A295A	Practicum I	3
ECD A295B	Practicum II	3
DN A145	Child Nutrition	2
PSY A245	Child Development	3

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

EDUCATION

CERTIFICATION PROGRAM

The Alaska State Department of Education issues certificates under the "approved program" approach to certification. The University of Alaska Anchorage has the responsibility of recommending for certification persons who successfully complete one or more of its approved programs to the Commissioner of Education. The Dean of the College of Health, Education, and Social Welfare is the only person authorized to endorse students for the appropriate certificate. The approved programs at the University of Alaska Anchorage are as follows:

Elementary Education
Secondary Education
Physical Education
- Elementary
- Secondary
- K-12

Reading Specialist
Counseling and Guidance
Educational Leadership
- Principal K-12
- Superintendent

Special Education
- Early Childhood Special Ed
- General Special Education

All students desiring certification through an undergraduate or graduate program must apply for admission into the School of Education.

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. Placements may become competitive if the number of applicants exceeds the number of spaces. Districts also reserve the right to refuse and/or terminate students who do not meet a minimum standard of performance. Thus, while the University 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.

The course work required for the Elementary and Physical Education certificates is identical to that required by the Bachelor of Education degree. Students holding a baccalaureate degree may obtain certification through an appropriate certification program. Secondary Certification is obtained through the Masters of Arts in Teaching (M.A.T.) program.

Students who have taken all or part of an approved program at another university must take at least nine credits of approved education courses at the University of Alaska Anchorage prior to being admitted to student teaching, advanced practicum, or internship, one of which is a requirement in every certification program.

BACHELOR OF EDUCATION WITH TEACHER CERTIFICATION

Majors: Elementary Education
Physical Education

ADMISSION REQUIREMENTS: ALL MAJORS

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

ACADEMIC PROGRESS: ALL MAJORS

All courses in the School of Education Core must be completed with a grade of "C" or higher in order to obtain teacher certification. Additionally, Elementary majors must complete all methods courses and their teaching specialty courses with a grade of "C" or higher in order to obtain teacher certification. Physical Education majors must complete all major requirements with a grade of "C" or higher in order to obtain teacher certification.

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. Placements may become competitive if the number of applicants exceeds the number of spaces. Districts also reserve the right to refuse and/or terminate students who do not meet a minimum standard of performance. Thus, while the University 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.

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

Please refer below for the Elementary Education or Physical Education major requirements.

ELEMENTARY EDUCATION MAJOR

A student interested in elementary education may obtain a B.Ed. in Elementary Education with teacher certification, a B.Ed. in Elementary Education without teacher certification, or an Alaska Teacher Certification for Elementary Education.

The B.Ed. in Elementary Education is a professional degree. A unique feature of the program is the integration of practicum experiences with the methods courses, enabling students to work in classrooms throughout their last two years of study. Since enrollment in this degree program is limited by the availability of practicum classrooms, students are advised that admission is competitive. The deadline for consideration for the fall semester is October 15 and for the spring semester March 15. Criteria considered for admission include: academic achievement, written and oral communication skills, and community involvement. Please contact the School of Education for additional information.

ADMISSION REQUIREMENTS:

ELEMENTARY TEACHER CERTIFICATION PROGRAM

In order to be admitted to the teacher certification program, students must:

1. Obtain and complete an application to the program.
2. Complete a minimum of 45 semester credits (transfer credits may be used) with a minimum GPA of 2.75.
3. All students, regardless of catalog year, must successfully complete the Pre-Professional Skills Test prior to enrolling in ED A320 or above.

Elementary Student Teaching

Faculty will have the responsibility of determining a student's readiness to enroll in ED A452E, Student Teaching. The student must realize that standards set forth below constitute minimum preparation, and it may be the judgment of the committee that the candidate needs further work to develop either content or methodological competencies.

In order to be admitted to student teaching, students must:

1. Meet all requirements for and be admitted to the Teacher Certification program.
2. Earn a minimum GPA of 2.75 in major and teaching specialty requirements.
3. Submit verification of physical examination, including Tine test.
4. Submit an application form for student teaching by the appropriate date: fall semester by March 1; spring semester by October 15.

MAJOR REQUIREMENTS

A. Complete the following prerequisite:

MATH A205	Mathematics for Elementary School Teachers I	3

B. Complete the following core courses (19 credits):

ED A201	Introduction to Education	2
ED A320	Foundations of Educational Technology	2
ED A321	Instruction and Assessment	
ED A423	Philosophical Foundations of Education	3
	School Teachers I	3
EDSE A336	Classroom Management and Collaboration	3
EDSE A419	Diversity in the Classroom	3
EDSE A312	Human Development and Learning (3)	3

C. Complete the following methods courses* (42 credits)

ED A401	Social Studies for Elementary Teachers	3
ED A404	Teaching Science in Elementary Schools	3
ED A407	Teaching of Elementary Mathematics	3
EDPE A432	Classroom Teaching of Health Enhancement	3
ED/ART A418	Methods: Art in the Elementary School	3
ED A421	Development of Reading in Elementary School	6
ED A422	Teaching Language Arts and Literature	6
ED/MUS A471	Elementary Music Methods	3

D. Complete and approved teaching specialty
Elementary education majors (B.Ed. degree candidates only) must complete a School of Education, approved teaching specialty. Teaching specialty course work must be taken outside the School of Education and a minimum of 18 credits is required. Approved specialties are on file in the School of Education.

E. ED A452E Student Teaching—Elementary** 12

F. A minimum of 130 credits is required for the degree, of which 42 credits must be upper-division.

**Practicum in public schools required as part of each course.*
***See Admission Requirements for Elementary Student Teaching.*

PHYSICAL EDUCATION MAJOR

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. As a result, HOPE offers a bachelors degree (B.Ed., Physical Education), a minor, graduate courses, and community education courses.

PHYSICAL EDUCATION TEACHER CERTIFICATION PROGRAM:

The professional nature of Physical Education as a discipline is reflected in the preparation of teachers and practitioners in the areas of human movement. In keeping with the University of Alaska Anchorage and School of Education mission, the Program involves several elements. The HOPE faculty provide high quality instruction that incorporates contemporary research findings and scholarship in physical education centering on educational practice and professional, community, and university service.

PROFESSIONAL PREPARATION PROGRAMS IN HEALTH, OUTDOOR, AND PHYSICAL EDUCATION:

Students receiving a B.Ed. without a teacher certification may receive professional preparation in one or more fields such as wellness promotion, adventure education, exercise leadership for the fitness industry, recreation, or health enhancement. Students can pursue a general B.Ed. in Physical Education with an emphasis in one of the following areas.

Health Education
Adventure/Outdoor Education
Exercise/Sport Leadership
Teacher Certification

PHYSICAL EDUCATION TEACHER CERTIFICATION AND PROFESSIONAL PREPARATION PROGRAMS

In order to enter the program, students must:

1. Schedule an entry interview with a HOPE faculty advisor.
2. Enroll in EDPE A175.

(Note: Students are encouraged to schedule an interview with a HOPE faculty advisor as early in their college career as possible.)

To enter methods courses, students must:

1. Earn a 2.75 GPA overall.
2. Complete all required EDPE 100- and 200-level courses. Concurrent enrollment in HOPE Program (EDPE) 300-level course work is appropriate.
3. Have earned 45 credits including the 34 credits of General Education Requirement courses. The 45 credits may include as many as 11 education credits.
4. Pass the School of Education competency tests in English, Writing, and Mathematics.
5. Complete the courses under the School of Education core requirements.

Physical Education (Teacher Certification) Student Teaching

In order to be admitted to student teaching, students must:

1. Earn a 2.75 GPA overall.
2. Present a Portfolio/Experiential Vita to HOPE Committee prior to student teaching.
3. Be recommended by HOPE faculty.
4. Submit verification of physical examination and Tine test.
5. Have all course work completed.
6. Have current CPR and Standard First Aid Certifications.

MAJOR REQUIREMENTS:

A. Complete the following Core Requirements (17 Credits):

ED A201	Introduction to Education	3
ED A320	Foundations of Educational Technology	2
ED A423	Philosophical Foundations of Education	3
EDPE A338	Human Motor Development and Learning	3
EDSE A336	Classroom Management and Collaboration	3
EDSE A419	Philosophical Foundations of Education	3

B. Complete the following courses (48 credits):

EDPE A140	Wilderness Adventures	2
EDPE A170	Survey of Adventure Education Activities	1
EDPE A175	Orientation to Health, Outdoor, and Physical Education	2
EDPE A333	Organization and Administration of Health, Outdoor, and Physical Education	3
EDPE A334	Tests and Measurements in Health, Outdoor, and Physical Education	3
EDPE A335	Introduction to Exercise Physiology	3
EDPE A336	Kinesiology	3
EDPE A350	Socio-Psychological Bases of Physical Education and Sport and Recreation	3
EDPE A436	Methods of Teaching Adventure Education	3
EDPE A438	Methods of Teaching Adapting Instruction in Health, Outdoor, and Physical Education	3
ED A410	Language and Cognition	4

C. Methods classes as approved by advisor 15

D. Complete one of the following emphases:

Teacher Certification Emphasis

Complete the following courses (21 credits):

EDPE A430	Fieldwork in Health, Outdoor, and Physical Education	3
EDPE A431	Methods of Teaching Physical Education	3
EDPE A437	Methods of Teaching School Health Education	3
EDPE A452	Student Teaching - Physical Education	12

Health Education Emphasis

Complete the following courses (21 credits):

DN A203	Normal Nutrition	3
EDPE A339	Wellness Education for Students with Disabilities	3
EDPE A347	Personal Wellness: A Secondary Physical Education	3
EDPE A432	Classroom Teaching of Health Enhancement	3
9 credits by advisement		9

Adventure/Outdoor Education Emphasis

Complete the following courses (21 credits):

EDPE A162	Wilderness First Responder/WEC	4
EDPE A240	Wilderness Leadership Expedition	4
EDPE A320	Environmental Education	3
EDPE A495	Outdoor Education Leadership Practicum	3-6
4-7 credits by advisement		4-7

Exercise/Sport Leadership Emphasis

Complete the following courses (21 credits):

EDPE A330	Sports Theory and Coaching	2
EDPE A337	Introduction to Sports Medicine	3
EDPE A434	Advanced Exercise Physiology	3
EDPE A442	Exercise and Aging	3
10 credits by advisement		10

E. A minimum of 130 credits is required for the degree, of which 42 credits must be upper-division.

BACHELOR OF EDUCATION WITHOUT TEACHER CERTIFICATION

Students who wish to receive the Bachelor of Education without teacher certification may substitute 12 credits of general course work approved by the School of Education in lieu of student teaching requirements.

EDUCATION MINOR

The following minors are available for students outside the School of Education. A minimum of 18 credits is required for a minor, at least 6 of which must be upper-division.

A. Non-Certification Minor in Education (18 credits):

ED A201	Introduction to Education	2
ED A321	Instruction and Assessment	3
ED A423	Philosophical Foundations of Education	3
EDSE A312	Human Development and Learning	3
EDSE A336	Classroom Management and Collaboration	3
Education electives by advisement		4

B. Non-Certification Minor in Physical Education:
Take one of the following emphases.

Physical Education Emphasis (20 credits):

EDPE A140	Wilderness Adventures	2
EDPE A170	Survey of Adventure Education Activities	1
EDPE A175	Orientation to Health, Outdoor, and Physical Education	2
EDPE A334	Tests and Measurements in Health, Outdoor, and Physical Education	3
EDPE A338	Human Motor Development and Learning	3
EDPE A438	Methods of Adapting Instruction in Health, Outdoor, and Physical Education	3
6 credits by advisement		6

Health Education Emphasis (23 credits):

DN A203	Normal Nutrition	3
EDPE A175	Orientation to Health, Outdoor, and Physical Education	2
EDPE A339	Wellness Education for Students with Disabilities	3
EDPE A347	Personal Wellness: A Secondary Physical Education	3
EDPE A432	Classroom Teaching of Health Enhancement	3
9 credits by advisement		9

Adventure/Outdoor Education Emphasis (23 credits):

EDPE A162	Wilderness First Responder/WEC	4
EDPE A175	Orientation to Health, Outdoor, and Physical Education	2
EDPE A240	Wilderness Leadership Expedition	4
EDPE A320	Environmental Education	3
EDPE A495	Outdoor Education Leadership Program	3-6
4 to 7 credits by advisement		4-7

Exercise/Sport Leadership Emphasis (23 credits):

EDPE A175	Orientation to Health, Outdoor, and Physical Education	2
EDPE A330	Sports Theory and Coaching	2
EDPE A337	Introduction to Sports Medicine	3
EDPE A434	Advanced Exercise Physiology	3
EDPE A442	Exercise and Aging	3
10 credits by advisement		10

SCHOOL OF NURSING

INTRODUCTION

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. 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 complete co-requisite courses while waiting for admission to the clinical sequence.

In order to have a student file ranked for possible admission to the nursing sequence, the following items must be completed no later than February 1:

1. UAA Certificate of Admission from Enrollment Services, including transcripts from both high school/GED and college, with transcript evaluations (if any). Documentation from transcripts must show successful completion of the following courses with grades of 2.00 "C" or above: Algebra, Biology with laboratory, and Chemistry with laboratory. Courses may have been taken at the high school or college-level. Equivalent college-level courses in lieu of high school are: MATH A055, BIOL A102 and BIOL A103, CHEM A055.

2. Student attends an advising session with the Coordinator of Student Affairs, School of Nursing and Health Sciences, (call (907) 786-4560 for pre-recorded message).
3. School of Nursing and Health Sciences Application and Confidential Required Information form sent to the Coordinator of Student Affairs, School of Nursing and Health Sciences.
4. Three letters of reference sent to the Coordinator of Student Affairs, School of Nursing and Health Sciences.
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 will be contacted in March with the results.

Once admitted to associate degree clinical nursing courses, students will be 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 by negative PPD skin test or by health exam sign by a nurse practitioner, physician, or physician's assistant;
   f) documentation of HIV testing annually (results not required).
2. Evidence of current infant, child and adult CPR certification. 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.

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

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 and health sciences courses. Students who are unable to earn an acceptable grade in a nursing or health science course during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space available basis. Students enrolled in one course must be concurrently enrolled in all courses with that common number (NURS A120 and NURS A120L; NURS A125 and NURS A125L; NURS A220 and NURS A220L; NURS A222 and NURS A222L; NURS A225 and NURS A225L; NURS A250 and NURS A250L).

The four semester clinical course sequence, which begins with NURS A120/120L must be completed within four years.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter. At least 3 of the 6 credits of general requirements must be a social science course.

MAJOR REQUIREMENTS

1. Complete the following required courses:

BIOL A111	Human Anatomy and Physiology I	4
BIOL A112	Human Anatomy and Physiology II	4
BIOL A240	Introductory Microbiology for Health Sciences	4
DN A203	Normal Nutrition	3
NURS A120	Nursing Fundamentals	3
NURS A120L	Nursing Fundamentals Lab	4
NURS A125	Adult Nursing I	3
NURS A125L	Adult Nursing I Lab	4
NURS A180	Basic Nursing Pharmacology	3
NURS A220	Perinatal Nursing	2
NURS A220L	Perinatal Nursing Lab	2
NURS A221	Advanced Parenteral Therapy Lab	1
NURS A222	Pediatric Nursing	2
NURS A222L	Pediatric Nursing Lab	2
NURS A225	Adult Nursing II	3
NURS A225L	Adult Nursing II Lab	3
NURS A250	Psychiatric Nursing	2
NURS A250L	Psychiatric Nursing Lab	2
NURS A255	Staff Nurse: Legal, Ethical, and Organizational Issues	1
PSY A150	Human Development	3

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

ASSOCIATE OF APPLIED SCIENCE, NURSING LICENSED PRACTICAL NURSE OPTION

Licensed Practical Nurses may complete the AAS Nursing Program in three semesters. Admission to the clinical sequence is selective and determined by a ranking process. Students are encouraged to complete co-requisite courses while waiting to qualify for admission to the clinical sequence.

ADMISSION REQUIREMENTS

Student files entered into the admission ranking process must include documentation of the following by February 1st:

1. UAA Certificate of Admission from Enrollment Services, including high school transcripts or GED certificate and transcripts of all college work, together with UAA transcript evaluations (if needed). Transcripts must provide evidence of completion of the following courses at the high school or college level with grades of "C" (2.00) or higher: Algebra, Biology with laboratory, and Chemistry with laboratory. Students may use courses equivalent to the following UAA courses in lieu of work at the high school level: MATH 055 (Algebra), Biol A102 and A103 (Biology) and CHEM A055 (Chemistry).
2. Successful completion of or concurrent enrollment in the following college courses or their equivalents:
   a) Biol A111 Anatomy and Physiology I
   b) Engl A111 Methods of Written Communication
   c) Psy A150 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 completed, 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 will be notified of the results of the ranking process by March 30th. Once admitted to the associate degree clinical courses, students will be required to provide documentation of health, CPR, and liability insurance before actually beginning clinical course work.

Requirements marked with an asterix (*) 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 by negative PPD skin test or by health exam sign 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.

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

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees.
2. Complete the Associate of Applied Sciences 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 Transition track.

LPN Challenge Examination Track: This track enables LPN's to receive university credit for previously learned knowledge and skills through an examination process.

1. Complete the following support courses:

BIOL A111	Human Anatomy & Physiology I	4
BIOL A112	Human Anatomy & Physiology II	4
BIOL A240	Introductory Microbiology for Health Sciences	4
DN A203	Normal Nutrition	3
PSY A150	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 II	3
*NURS A125L	Adult Nursing II Lab	3
*NURS A180	Basic Nursing Pharmacology	3
NURS A220	Perinatal Nursing	2
NURS A220L	Pediatric Nursing Laboratory	2
NURS A221	Advanced Parenteral Therapy Lab	1
NURS A222	Pediatric Nursing	2
NURS A222L	Pediatric Nursing Lab	2
NURS A225	Adult Nursing II	3
NURS A225L	Adult Nursing II Lab	3
NURS A250	Psychiatric Nursing	2
NURS A250L	Psychiatric Nursing Lab	2
NURS A255	Staff Nurse: Legal, Ethical, and Organizational Issues	1

2. Complete electives to total 70 credits.
3. A total of 70 credits is required for the degree.

LPN Role Transition Track: This track enables LPN students to build upon previously acquired knowledge and skills through completion of a variety of structured learning experiences in classroom, clinical, and laboratory settings.

1. Complete the following required courses:

BIOL A111	Human Anatomy & Physiology I	4
BIOL A112	Human Anatomy & Physiology II	4
BIOL A240	Introductory Microbiology for Health Sciences	4
DN A203	Normal Nutrition	3
PSY A150	Human Development	3
NURS A150	Nursing Role Transition for LPN's	8
NURS A180	Basic Nursing Pharmacology	3
NURS A220	Perinatal Nursing	2
NURS A220L	Perinatal Nursing Lab	2
NURS A225	Adult Nursing II	3
NURS A225L	Adult Nursing II Lab	3
NURS A250	Psychiatric Nursing	2
NURS A250L	Psychiatric Nursing Lab	2
NURS A255	Staff Nurse: Legal, Ethical, and Organizational Issues	1

2. Complete electives to total 70 credits.
3. A total of 70 credits is required for the degree.

BACHELOR OF SCIENCE, NURSING SCIENCE

Students pursuing the baccalaureate degree in nursing science are provided both the theory and clinical base to enable them to assess plan, implement, and evaluate health care to meet the needs of individuals, families, groups, and communities whose health status varies qualitatively and quantitatively.

Students working on a degree in Nursing Science may choose from two options: the Basic Student Option and the Registered Nurse Option. Within the RN Option, registered nurses returning to complete the baccalaureate degree in nursing science may select either the RN Challenge Exam track or the RN Prior College Credit track.

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, NS A200, NS A201 and NS 202 prior to October 1 in the fall semester and February 1 in the spring semester. The process for advancement to the major and the formal admission to the Nursing program are:

1. UAA Certificate of Admission and transcript evaluations (if any) from Enrollment Services.
2. Advising sessions with Coordinator of Student Affairs. The student attends a group advising session (call (907) 786-4560 for pre-recorded information on group advising session).
3. An extracted minimum grade point average of 2.70 for courses required for the Bachelor of Science, Nursing Science. The GPA will be 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 (36 credits):

BIOL A111 and A112	8
CHEM A103 and A104	8
ENGL A111 and A213	8
ENGL A120, PHIL A101, PHIL A201, or PSY A150	3
Oral Communication Requirement	3
General Education Requirement	3
PSY or SOC General Education Course	3

For students not required to take ENGL A111, a 200-level English composition course will be substituted. For transfer students, grades from equivalent courses will be substituted.

6. Enrollment in, or credit for,

BIOL A240	4
PSY A150 or one of the following: ENGL A120, PHIL A101, or PHIL A201	3
ANTH or ECON General Education Requirement	3
General Education Requirement	6

7. Application to the Baccalaureate Nursing Major. After completion of the first semester or 36 credits, as outlined above in #5, and during enrollment in courses outlined in #6, the student meets with the Coordinator of Student Affairs to verify course completion and GPA and completes the Application to the Nursing Major. The student may call (907) 786-4550 to set up an appointment.
8. School of Nursing Application and Confidential Required Information form on file in the School.
9. Three letters of reference.
10. A current Plan of Study signed by the Coordinator of Student Affairs on file with the School of Nursing.
11. After completion of all the above steps, the student's file is forwarded to the School's Admissions Committee for acceptance into the Nursing Major. Formal admission to the Nursing program is based on the student's relative standing on the minimum requirements as outlined above. There are two deadlines for consideration by the Committee: October 1 in the fall semester and February 1 in the spring semester.
12. Achievement of a "C" or higher in the specified courses for the major that are in progress when admission is sought (i.e., PSY A150, BIOL A240), and maintenance of a minimum 2.70 GPA until the semester of enrollment in beginning nursing courses (NS A200, A201, 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 by negative PPD skin test or by health exam signed 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).*

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 and health sciences courses.

Re-Enrollment: Students who are unable to earn an acceptable grade in a nursing or health science 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 A315and NS A305L, NS A315S; NS A401, NS A401L, NS A401S, NS A401, NS A402L, NS A402S; NS A406, NS A406L, 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. Support courses: Complete support courses for the Nursing Science major (44 credits). Courses marked with an asterisk (*) must be completed prior to admission to clinical nursing courses:

AS A252	Elementary Statistics (3)	3
	or	
AS A307	Probability and Statistics (3)	
*BIOL A111	Human Anatomy and Physiology I	4
*BIOL A112	Human Anatomy and Physiology II	4
*BIOL A240	Introductory Microbiology for Health Sciences	4
*CHEM A103/L	Introduction to General and Organic Chemistry	4
*CHEM A104/L	Introduction to Organic Chemistry and Biochemistry	4
PSY A150**	Human Development	3
*Reasoning Skills:**	ENGL A120, or PHIL A101, or PHIL A201	3
DN A203	Normal Nutrition	3
ENGL A213	Writing in the Academic Disciplines	3
PHIL A302	Biomedical Ethics	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 A200	Information Technology	1
NS A201	Computer Mediated Communication	1
NS A202	Practice Technology	1
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	1
NS A313S	Health Disruptions I Seminar	3
NS A315	Health I: Nursing Therapeutics	2
NS A315L	Health I: Nursing Therapeutics Lab	1
NS A315S	Health I: Nursing Therapeutics Seminar	3
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	1
NS A401S	Health Disruptions II Seminar	3
NS A402	Health II: Nursing Therapeutics	2
NS A402L	Health II: Nursing Therapeutics Lab	1
NS A402S	Health II: Nursing Therapeutics Seminar	3
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. Complete electives to total 126 credits. 3
4. A total of 126 credits is required for the degree; 42 credits of which credits must be upper-division.

REGISTERED NURSE OPTION

For students who hold current licensure as a Registered Professional Nurse in the State of Alaska, the School offers "RN-only" courses and sections within the nursing major designed to build upon the RN's basic preparation and experience and to facilitate progress in meeting program objectives through credit by examination or prior college credit and clinical course work. Students attempting to earn credit by examination are evaluated on both theoretical and clinical competency. 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 A302. The deadline for RN admission is once a year in the fall semester by October 1. Formal admission to the Nursing program is based on the Registered Nurse's relative standing on the following minimum requirements:

1. UAA Certificate of Admission and transcript evaluations from Enrollment Services.
2. Current licensure as a Registered Professional Nurse in the State of Alaska. Copy of licensure on file with the School.
3. A current Plan of Study signed by a Nursing advisor and the RN student on file with the School of Nursing and Health Sciences. The student may call (907) 786-4550 to set up an advising session.
4. An extracted minimum grade point average of 2.00. The grade point average will be calculated using grades from all courses which are required for the nursing major that have been completed at the time of application to the major.
5. A grade of "C" or better in all specified courses required for the nursing major.
6. Completion of or credit for specified prerequisite courses (17 credits):

BIOL A111	3
CHEM A103/L	4
ENGL A111	3
COMM A111, ENGL A120, PHIL A101, PHIL A201, or PSY A150	3
General Education Requirement	3

For students not required to take ENGL A111, a 200-level English composition course will be substituted. For transfer students, grades from equivalent courses will be substituted.

7. Enrollment in, or credit for,

BIOL A112	4
CHEM A104/L	4
ENGL A120, PHIL A101, or PHIL A201	3
ENGL A211, A212, or A213	3

at the time of application to the major, on achieving a "C" in the specified courses for the major that are in progress when admission is sought (i.e., CHEM A104/L, BIOL A112), and on maintaining a minimum 2.00 grade point average until beginning nursing courses.

8. A School of Nursing and Health Sciences application on file in the School.
9. Three letters of reference, one of which must be a professional reference.

Registered Nurse students not formally admitted by UAA as a baccalaureate seeking student in the Nursing program or admitted as pre-nursing majors are eligible to take the following courses:

NS A216	Pathophysiology	4
NS A305/305L	Health Assessment of Individuals/Lab	3
NS A309	Pharmacology in Nursing	3
NS A331	Current Issues and Trends in Parent-Child Nursing (RN Prior College Credit track only)	3
NS A414	Ethical, Legal, and Professional Issues in Nursing	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

Within the RN Option, registered nurses returning to complete the baccalaureate degree in nursing science may select either the RN Challenge Exam track or the RN Prior College Credit track.

RN Challenge Exam Track

This track offers challenge examinations to enable the RN student to receive university credit for previously learned knowledge and skills.

1. Support Courses: Complete support courses for the Nursing Science major (36 credits). All support courses must be completed prior to admission to 400-level clinical nursing courses:

AS A252	Elementary Statistics (3)	3
	or	
AS A307	Probability and Statistics (3)	
BIOL A111	Human Anatomy and Physiology I	4
BIOL A112	Human Anatomy and Physiology II	4
BIOL A240	Introductory Microbiology for Health Sciences	4
CHEM A103/L	Introduction to General and Organic Chemistry/Lab	4
CHEM A104/L	Introduction to Organic Chemistry and Biochemistry/Lab	4
PSY A150*	Human Development	
Reasoning Skills:*		3
ENGL A120, or PHIL A101, or PHIL A201		
DN A203	Normal Nutrition	3
NS A216	Pathophysiology (Exam for Credit available)	4

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

2. Challenge exams: Complete the following required courses for the Nursing Science major (25 credits) by taking the course or by passing an examination for credit. The following challenge exams may be taken twice. If unsuccessful after two tries, the corresponding course must be taken for academic credit. All challenge exams must be completed prior to admission to 400-level clinical nursing courses:

NS A306	Fundamentals of Nursing	2
NS A306L	Fundamentals of Nursing Lab	2
NS A310	Medical Surgical Nursing	3
NS A310L	Medical Surgical Nursing Lab	4
NS A311	Nursing the Childbearing Family	2
NS A311L	Nursing the Childbearing Family Lab	2
NS A312	Nursing the Childrearing Family	2
NS A312L	Nursing the Childrearing Family Lab	2
NS A407	Advanced Medical Surgical Nursing	1.5
NS A407L	Advanced Medical Surgical Nursing Lab	1.5
NS A409	Psychiatric-Mental Health Nursing I (Exam for Credit Only)	3

3. Nursing courses for academic credit: Complete the following required nursing courses within the Nursing Science major (35 credits). Courses marked with an asterisk (*) must be completed prior to admission to 400-level clinical nursing courses (i.e., NS A403/A403L, NS A404/A404L, NS A410/A410L):

*NS A302	Processes of Professional Nursing for RN's	3
*NS A305	Health Assessment of Individuals	2
*NS A305L	Health Assessment of Individuals Lab	1
*NS A309	Pharmacology in Nursing (Exam for Credit available)	3
*NS A319	Research in Nursing	3
NS A403	Community Nursing I	2
NS A403L	Community Nursing I Lab	2
NS A404	Community Nursing II	1
NS A404L	Community Nursing II Lab	2
NS A410	Psychiatric/Mental Health Nursing II	2
NS A410L	Psychiatric/Mental Health Nursing II Lab	1
NS A414	Ethical, Legal and Professional Issues in Nursing	4
NS A417	Management in Nursing	3
Nursing electives (upper-division)		6

4. Complete elective credits to total 126 credits. 6
5. A total of 126 credits is required for the degree, 42 credits of which must be upper-division.

RN Prior College Credit Track

This track offers utilization of prior college degree credit to fulfill 26 elective credits, for which the RN student may use Associate Degree Nursing lower-division credits.

1. Support courses: Complete support courses for the Nursing Science major (36 credits). All support courses must be completed prior to admission to clinical nursing courses:

AS A252	Elementary Statistics (3)	3
	or	
AS A307	Probability and Statistics (3)	
BIOL A111	Human Anatomy and Physiology I	4
BIOL A112	Human Anatomy and Physiology II	4
BIOL A240	Introductory Microbiology for Health Sciences	4
CHEM A103/L	Introduction to General and Organic Chemistry/Lab	4
CHEM A104/L	Introduction to Organic Chemistry and Biochemistry/Lab	4
PSY A150*	Human Development	3
Reasoning Skills:**		3
ENGL A120, or PHIL A101, or PHIL A201		
DN A203	Normal Nutrition	3
NS A216	Pathophysiology (Exam for Credit available)	4

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

2. Nursing courses for academic credit: Complete the following required courses for the Nursing Science major (40 credits). Courses marked with an asterisk (*) must be completed prior to admission to 400-level clinical nursing courses (i.e., NS A403/A403L, NS A404/A404L, NS A410/A410L):

*NS A302	Processes of Professional Nursing for RN's	3
*NS A305	Health Assessment of Individuals	2
*NS A305L	Health Assessment of Individuals Lab	1
*NS A309	Pharmacology in Nursing (Exam for Credit available)	3
*NS A319	Research in Nursing	3
*NS A331	Current Issues and Trends in Parent-Child Nursing	2
NS A403	Community Nursing I	2
NS A403L	Community Nursing I Lab	2
NS A404	Community Nursing II	1
NS A404L	Community Nursing II Lab	2
NS A407	Advanced Medical Surgical Nursing	1.5
NS A407L	Advanced Medical Surgical Nursing Lab	1.5
NS A410	Psychiatric/Mental Health Nursing II	2
NS A410L	Psychiatric/Mental Health Nursing II Lab	1
NS A414	Ethical, Legal and Professional Issues in Nursing	4
NS A417	Management in Nursing	3
Nursing electives (upper-division)		6

3. Complete elective credits to total 126 credits. 26
4. A total of 126 credits is required for the degree, 42 credits of which must be upper-division.

ADDICTION STUDIES MINOR

The interdisciplinary Addiction Studies Minor, coordinated by the Center for Alcohol and Addiction Studies, 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/PSY A350	Drugs and Drug-Taking Behavior (3)

2. Complete 12 credits from the following: 12

HS/PSY A381	Substance Abuse Treatment (3)
HS/PSY A480	Contemporary Issues in Addiction Studies (1-12)
HUMS A123	Public Education and Prevention in Substance Abuse (3)
HUMS A235	Substance Abuse Counseling for Paraprofessionals (3)
JUST A110	Introduction to Justice (3)
NS A428	Nursing the Chemically Dependent Client (2-3)
PSY A443	Introduction to AIDS and Substance Abuse (3)
PSY A482	Advanced Treatment of Substance Abuse (3)
PSY A488	Introduction to Assessment for Addictive Behaviors (3)
SWK A471	Addictions and Social Work (3)

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

HUMAN SERVICES

INTRODUCTION

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 practitioners 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 or family and youth. These are coordinated with practicum placements to give students first hand experience in their desired specialty.

An important part of the program is Human Services advising. Prospective students should contact a Human Services advisor before entering the program. Students enrolled in the introductory courses will be 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 (32 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/PSY A223	Introduction to Paraprofessional Counseling I	3
HUMS A262	Human Services Practicum I	4
HUMS A263	Human Services Practicum II	4
HUMS/PSY A324	Introduction to Paraprofessional Counseling II	3
PSY A111	General Psychology	3
PSY A150	Human Development	3
SOC A101	Introduction to Sociology	3

2. Complete 6 credits from one of the emphasis areas: 6

Note: 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 A256	Groups and Organizations (3)
HUMS A350	Men and Masculinity (3)
HUMS A434	Group Facilitation for Human Service Professionals (3)
PSY A245	Child Development (3)
PSY A261	Introduction to Experimental Psychology (4)
PSY A345	Psychology of Abnormal Behavior (3)
SOC A202	The Social Organization of Society (3)
SOC A242	An Introduction to Marriage, Family and Intimate Relationships (3)
SOC A246	Adolescence (3)
SOC/PSY A353	Application of Statistics to 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)
HUMS A417	Substance Abuse Counseling for Human Service Professionals (3)
HS/PSY A350	Drugs and Drug-Taking Behavior (3)
HS/PSY A381	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)
PSY A245	Child Development (3)
SOC A242	An Introduction to Marriage, Family and Intimate Relationships (3)
SOC A246	Adolescence (3)

Disabilities Emphasis

Complete 6 credits from the following:

ASL A121	American Sign Language I (3)
ASL A131	American Sign Language II (3)
ASL A221	American Sign Language III (3)
HUMS A231	Applied Behavioral Analysis I (2)
HUMS A232	Applied Behavioral Analysis II (2)
PSY A445	Strategies of Behavior Change (3)
PSY A455	Developmental Disabilities Overview (3)

Diversity Issues Emphasis

Complete 6 credit from the following:

AKNS A101	Alaska Native Languages I (4)
AKNS A102	Alaska Native languages II (4)
AKNS A109	Alaska Native Languages Orthography (4)
AKNS A201	Native Perspectives (3)
AKNS A401	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 13 credits of electives. Consultation with faculty advisor recommended. 13 9
4. A total of 60 credits is required for the degree.

BACHELOR OF HUMAN SERVICES

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admissions 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. Student must complete the Associate of Applied Science, Human Services degree from an accredited institution recognized by UAA.
2. Complete the following Bachelor of Human Services core requirements (35 credit minimum).

HUMS A333	Alternative Dispute Resolution	3
HUMS A412	Ethical Issues in Human Service Practice	3
HUMS A414	Rural Treatment Strategies for Human Service Professionals	3
HUMS A417	Substance Abuse Counseling for Human Service Professionals	3
HUMS A424	Advanced Counseling for Human Service Professionals	3
HUMS A434	Group Facilitation for Human Service Professionals	3
HUMS A461	Crisis Intervention	3
HUMS A462	Human Services Practicum III	4
HUMS A463	Human Services Practicum IV	4
SWK A343	Human Behavior: Diversity and Discrimination	3
SWK A481	Case Management in Social Work Practice	3

3. Complete 6 credits from one of the speciality 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 must complete 6 credits from each of two emphasis areas or 12 credits from one emphasis area. Selected courses may only be used in one emphasis area.

4. Choose 9 credits of electives. Consultation with faculty advisor is recommended.
5. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

JUSTICE

INTRODUCTION

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 and the administration of justice. Those graduates with records of high achievement in the Justice undergraduate program will be 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

**Can also satisfy the Quantitative Skills General Education Requirement.*

***Select courses from the General Education Requirements located at the beginning of this chapter (must be in addition to the 6 credit Humanities General Education Requirement). Substitutions may be made with advisor approval.*

****Paralegal Studies Certificate courses can be counted as Justice electives.*

2. Complete a University-approved minor in another discipline. Specific requirements for minors are listed in the catalog by school or department. 18-21
3. A total of 120 credits is required for the degree of which 48 credits must be upper-division.

JUSTICE MINOR

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

PARALEGAL STUDIES

CERTIFICATE
PARALEGAL STUDIES

The Paralegal Certificate Program has been 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 a memorandum of legal analysis
7. Knowledge of the variety of legal specialties performed by paralegals.
8. Practical experience in a law office or agency that allows students to apply classroom skills.

ADMISSION REQUIREMENTS

Students must have completed a total of six credits in ENGL A111 (or equivalent), A211, A212, A213, A311, A312, or A414 with a minimum grade of "B" in each class. Students must have a 2.00 overall GPA to be admitted to the Paralegal Studies Certificate Program. Students must apply and be admitted to the program on the Goose Lake campus (Anchorage) before completing 12 credits of the paralegal core curriculum. Special admission requirements for this certificate are enforced and certificates cannot be completed at extended campuses. Certain courses required for the certificate must be taken only at the Goose Lake campus.

Students are encouraged to complete a BA or AA in conjunction with the Paralegal Certificate. Paralegal courses fulfill the Justice elective requirements for the Justice BA and the Applied Studies requirements for the AA. Students who have already completed a degree at an accredited institution whose composition courses meet UAA's written communication and program admission requirements need only complete the Paralegal core courses. Transfer credit for some core courses may be determined at the departmental level.

Students interested in the Paralegal Studies Certificate Program should consult a faculty advisor in the Justice Center before enrolling in paralegal courses.

CERTIFICATE REQUIREMENTS

1. Complete 6 credits in Written Communications (ENGL A111, A211, A212, A213, A311, A312, or A414) with a minimum grade of "B" in each class. 6
2. Complete the following required core courses (31 credits):

PARL A101	Introduction to Law	3
PARL A215	Paralegal Studies	3
PARL A235	Factual Investigation and Interviewing	2
PARL A236	Ethics and Paralegals	1
PARL A238	Civil Procedure	3
PARL A256	Legal Research I	3
PARL/JUST A352	Substantive Criminal Law (3)	3
	or	
PARL/JUST A354	Criminal Procedure (3)	
	or	
PARL A362	Commercial Law (3)	
	or	
other upper division law course from Justice curriculum with paralegal coordinator approval (3)		
PARL A375	Litigation	3
PARL A456	Advanced Legal Analysis and Writing	4
PARL A470	Law of Government Regulation	3
JUST A495	Internship (1-6)	3

3. Complete at least 20 credits, in addition to the preceding courses, from the General Education Requirements for Baccalaureate Degrees list or from courses that meet the general requirements in humanities, social sciences, and math/natural sciences for the associate degree. 20
4. Complete 3 credits of any elective at the 100-level or above. 3
5. Students must achieve a minimum grade of "C" in each paralegal core course to receive the certificate. Courses may be repeated to improve grades according to University policy.
6. A total of 60 credits is required for the certificate.

Note: Graduates are not authorized to provide direct legal services to the public. The Paralegal Certificate Program is a training program for paralegals/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.

SOCIAL WORK

INTRODUCTION

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

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

*Social work practice is based on selective use of knowledge in change efforts with human systems and social problems.
*Social work practice recognizes human diversity as a primary element.
*Social work practice is based on professional values.
*Social work practice is based on professional relationships.
*Social work practice is based on reciprocal role performance.

Social work education engages the student in carefully planned experiences to achieve the knowledge, skills, and attitudes necessary for beginning professional competence. These experiences take place in the classroom, laboratory, volunteer experience, small seminars, and selected field work practicum placements.

The Bachelor of Social Work degree program is accredited by the Council on Social Work Education (CSWE).

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 spring 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 UAA and applied toward the Bachelor of Social Work degree. Approval from the UAA Social Work Department is required for acceptance of social work transfer credits from programs which are not accredited by CSWE.

REQUIREMENTS FOR ADMISSION TO THE SOCIAL WORK PROGRAM

To apply for admission to the Social Work Program, students must complete:

1. University General Education Requirements.
2. Major requirements.
3. Foundation courses with a grade of "C" or better (see below).
4. The following required social work courses with a grade of "C" or better: SWK A106, SWK A306, SWK A324, SWK A342, SWK A343, and SWK A360.

Once the above requirements are met, students must submit to the Social Work Department by the first Friday in March the following:

1. The Social Work Department Application for Admission to Practicum (SWK A461A/B) for fall enrollment.
2. An autobiographical statement.
3. A videotape demonstrating basic communication skills.
4. A Student Practicum Interest sheet.
5. 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 Social Work department will notify applicants of their status by May 15.

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 simulated videotaped interviews, and 3) availability of departmental faculty resources to insure a quality educational experience.

ACADEMIC PROGRESS

Students in the Social Work program must earn a grade of "C" or better in foundation and required social work courses. Adherence to the Code of Ethics established by the National Association of Social Workers is required.

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 liberal arts foundation courses (27 credits):

ANTH A250	3
CIOS A105	3
ENGL A311, A312, or A414	3
ENGL A121, A203, A204, A306 or A307	3
HIST A101 and A102	6

Select 6 credits from any 2-semester sequence in one of the following humanities sequences or in a language other than English:

ART A261 and A262	6
ASL A121 and A131	6
ENGL A201 and A202	6
MUS A221 and A222	6
PHIL A211 and A212	6
PHIL A313B and A314	6
PS A332 and A333	6
THR A311 and A312	6
THR A411 and A412	6

Choose one of the following:

ENGL A120 or PHIL A101 or A201 or A301 or A421	3

2. Complete the following core:

PSY A150	Human Development	3
SOC A101	Introduction to Sociology	3

Choose one of the following: 3-4

BIOL A102	Introductory Biology (3)
BIOL A105	Fundamentals of Biology I (4)
BIOL A106	Fundamentals of Biology II (4)
BIOL A111	Human Anatomy and Physiology I (4)
BIOL A113	Lectures in Human Anatomy and Physiology I (3)

Choose one of the following: 3

ANTH A200	Natives of Alaska (3)
ANTH A202	Cultural Anthropology (3)

3. Complete the following required 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 Applications	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 A406	Social Welfare: Policies and Issues	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

4. Complete general electives to total 120 credits.
5. A total of 120 credits is required for the degree, of which 42 must be upper-division.

SOCIAL WORK MINOR

Students majoring in another subject who wish to minor in Social Work 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
SWK A406	Social Welfare: Policies and Issues	3
Upper-division Social Work electives		3

COMMUNITY AND TECHNICAL COLLEGE

INTRODUCTION

The UAA Community and Technical College is a major center for development and delivery of vocational, 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. Vocational 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, Vocational Education, the Mining and Petroleum Training Service, North Pacific Fisheries Observer Training Center, and Military Education Services.

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 vocational education. The Dean of the College serves as regional vocational education coordinator and provides assistance to the campus directors and faculty in coordinating the development and delivery of vocational education programs and course work in Kenai, Kodiak and Palmer. The goal of regional coordination of vocational 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.

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.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATES OF COMPLETION

The Community and Technical College offers certificates of completion to students enrolling in specific programs. Students may enroll in courses for which they have satisfied the prerequisites.

ASSISTIVE CARE CERTIFICATE

The Assistive Care program is designed to prepare or enhance the performance of persons who care for others in a residential setting. Course work is approved by the Alaska State Board of Nursing for recertification of health aides, personal care attendants, homemakers, and other similar caregiver classifications. Course content applies both to caregivers gainfully employed and to those personally seeking to improve the quality of care given to family and friends. Courses are scheduled at times and locations convenient to persons working for a local agency or caring for someone in a home setting. Students must successfully complete at least 15-credits of FCS A192, Selected Topics in Assistive Care to earn the Certificate of Completion.

FLORAL DESIGN CERTIFICATE

The Floral Design Program prepares students for work in the floral industry. Courses cover basic and advanced designs and styles including weddings, funerals, and other special events and treatments, as well as operations, management and processes specific to the industry. Instruction is delivered through classroom lectures, demonstrations, laboratories, and beginning and advanced practica. Courses will be offered when sufficient enrollment permits.

1. Students must complete the following required courses (18 credits):

BA A166	Small Business Management (3)
FD A161	Floral Design I (3)
FD A162	Floral Design II (3)
FD A163	Floral Design III (3)
FD A164	Floral Design IV (3)
FD A195A	Floral Design Practicum I (1)
FD A195B	Floral Design Practicum II (2)

2. Students must demonstrate computer competency in one of three ways: a three credit computer course; work-related experience verifying computer competency as approved by faculty advisor; or self-initiated computer competency as approved by faculty advisor.

AUTOMOTIVE CERTIFICATES

See the Automotive and Diesel Technology section of this chapter for details about these four programs of study: Automotive Electrical; Automotive Brakes, Suspension and Alignment; Automotive Power Trains; and Automotive Engine Performance

DIETARY MANAGER CERTIFICATE

See the Culinary Arts section of this chapter for details.

MEDICAL ASSISTING CERTIFICATE

See the Medical Assisting section of this chapter for details.

APPRENTICESHIP TECHNOLOGIES

INTRODUCTION

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 offered 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

Complete the associate degree requirements located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses:

ENGL A111	Fundamentals of Written Communication	3
ENGL A212	Technical Writing	3
EMT A110	Emergency Trauma Technician	3
HUMS/PSY A153	Human Relations	3
MATH A107	College Algebra (4)	3-4
	or	
AS A252	Elementary Statistics (3)	
COMM A111	Fundamentals of oral communication	3

2. Select three (3) credits from the following: 3

CIOS A105	Introduction to PC Computers and Applications (3)
CIOS A106	Computer Literacy (2)
CIOS A106W	Computer Literacy Workshop (1)
CIOS A107	Macintosh Computer and Applications (3)
CS A100	Introduction to Computers (3)

3. Technical credits from approved apprenticeship program 38
   See Non-Traditional Credit section of the catalog.
4. Elective 1
5. A total of 60 credits is required for the degree.

ARCHITECTURAL AND ENGINEERING TECHNOLOGY

INTRODUCTION

The Architectural and Engineering Technology program provides continuing education, entry-level skills, and advanced technical skills in several specialized fields, including Computer-Aided Design and Drafting (CADD) and Geographic Information Systems (GIS).

Students are trained to become skilled workers on architectural and engineering teams. AET certificate and degree graduates are employed as technicians or drafters and work in private industry as well as state or federal agencies.

The AAS degree requires 4 to 5 semesters to complete.

The AET faculty assist students with curriculum planning to prepare for the Associate Technician Qualifying Examination offered by the Institute for the Certification of Engineering Technicians.

Although courses taken may apply to the first two years of a four-year degree program (i.e. BS in Technology), the AAS degree should not be considered a preparatory or substitute for professional degree programs in Architecture or Engineering. Students pursuing a four-year degree program should contact the Engineering Department at UAA or the AET Program for careers in architecture.

Subject to scheduling, students may select either 5-week or 15-week blocks of instruction for each AET course. Content is the same; only the amount of time a course meets per week is different. Students spend at least one hour on outside lab work for each hour in class. Lab facilities are available for students' use five days a week. A full curriculum is offered during fall and spring with occasional short courses 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.

Note: The Architectural and Engineering Technology program is undergoing curriculum changes. Contact department.

CERTIFICATES

ADMISSION REQUIREMENTS

Specific application procedures are necessary to enroll, and certain courses require prerequisites or faculty permission. Contact (907) 786-6423 for further information.

GRADUATION REQUIREMENTS

In order to receive a certificate offered by the AET Department, students must achieve a 4.00 grade point average (GPA) in their certificate requirements.

ARCHITECTURAL DRAFTING

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:

AET A101	Fundamentals of Drafting for Building Construction	3
AET A102	Specifications and Materials for Building Construction	4
AET A121	Architectural Working Drawings and Office Practice	3
AET A122	Architectural Presentation Techniques	3
AET A221	Design Development for Architectural Technicians	4
AET A281	Basic 2-D CADD	4

2. A total of 21 credits is required for the certificate.

CIVIL ENGINEERING DRAFTING

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:

AET A101	Fundamentals of Drafting for Building Construction	3
AET A102	Specifications and Materials for Building Construction	4
AET A111	Topography and Land Development Drafting	3
AET A211	Subdivision Design and Land Classification	4
AET A212	Advanced Site Development Techniques	3
AET A281	Basic 2-D CADD	4

2. A total of 21 credits is required for the certificate.

MECHANICAL AND ELECTRICAL DRAFTING

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:

AET A101	Fundamentals of Drafting for Building Construction	3
AET A102	Specifications and Materials for Building Construction	4
AET A141	Mechanical Building Equipment Systems Design and Drafting	3
AET A151	Electrical Building Equipment Systems Design and Drafting	3
AET A281	Basic 2-D CADD	4

2. A total of 17 credits is required for the certificate.

STRUCTURAL DRAFTING

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:

AET A101	Fundamentals of Drafting for Building Construction	3
AET A102	Specifications and Materials for Building Construction	4
AET A131	Structural Working Drawings and Office Practice	3
AET A231	Structural Design and Detailing for Engineering Technicians	3
AET A281	Basic 2-D CADD	4

2. A total of 17 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, ARCHITECTURAL AND ENGINEERING TECHNOLOGY

ADMISSION REQUIREMENTS

Specific application procedures are necessary to enroll, and certain courses require prerequisites or faculty permission. Contact (907) 786-6423 for further information.

GENERAL UNIVERSITY REQUIREMENTS

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

2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter. GEOL A111 and MATH A105 are recommended.

MAJOR REQUIREMENTS

1. Complete the following required courses (39 credits):

AET A101	Fundamentals of Drafting for Building Construction	3
AET A102	Specifications and Materials for Building Construction	4
AET A111	Topography and Land Development Drafting	3
AET A121	Architectural Working Drawings and Office Practice	3
AET A122	Architectural Presentation Techniques	3
AET A131	Structural Working Drawings and Office Practice	3
AET A141	Mechanical Building Equipment Systems Design and Drafting	3
AET A151	Electrical Building Equipment Systems Design and Drafting	3
AET A211	Subdivision Design and Land Classification	4
AET A212	Advanced Site Development Techniques	3
AET A221	Design Development for Architectural Technicians	4
AET A231	Structural Design and Detailing for Engineering Technicians	3

2. Electives
   CS A100, AET A281 are recommended. 6
3. A total of 60 credits is required for the degree.

AUTOMOTIVE AND DIESEL TECHNOLOGY

INTRODUCTION

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

AUTOMOTIVE TECHNOLOGY (GENERAL)

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.

DIESEL TECHNOLOGY

The Diesel Technology program generally deals with trucks and rubber-tired equipment. Much of the technical knowledge and skills will transfer to tracked equipment or marine engine/power production. The program is four semesters long and shares a common first year with the Automotive program. The second year is very specific training in Diesel Technology related topics. Laboratory/shop experiences occur on component pieces from our training engines and vehicles donated by the manufacturers, the department's four diesel powered vehicles, and live jobs. Diesel Technology graduates have been placed statewide in independent repair shops, various fleets, construction, mining, aviation ground support, and the seafood processing support industry. Employers require a current vehicle operator's license, a good driving record, and good physical condition. Equal opportunities are available for men and women.

High-level reading skills are a must for successful automotive or diesel technicians. Text books 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.

Automotive Technology and Diesel Technology certificates (General or nontranscripted) and AAS degrees 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.

CERTIFICATES

AUTOMOTIVE TECHNOLOGY

1. Complete the following required courses:

First Semester

ADT A102	Auto Basics and Careers	3
ADT A111	Power Trains I	3
ADT A121	Auto Electrical I	3
ADT A130	Basic Auto Engines	3

Second Semester

ADT A114	Power Trains II	3
ADT A131	Auto Electrical II	3
ADT A150	Brake Systems	4
ADT A162	Suspension and Alignment	4

Third Semester

ADT A195	Automotive Practicum I	6

Fourth Semester

ADT A211	Auto Fuel Systems	4
ADT A212	Engine Performance	6
ADT A214	Emission Systems	4

Fifth Semester

ADT A225	Auto Heating and A/C	3
ADT A227	Auto Electrical III	3
ADT A282	Power Trains III (3)	3
	or	
ADT A295	Automotive Practicum II (3)	

2. A total of 55 credits is required for the certificate.

DIESEL TECHNOLOGY

1. Complete the following required courses:

First Semester

ADT A102	Auto Basics and Careers	3
ADT A111	Power Trains I	3
ADT A121	Auto Electrical I	3
ADT A130	Basic Auto Engines	3

Second Semester

ADT A114	Power Trains II	3
ADT A131	Auto Electrical II	3
ADT A150	Brake Systems	4
ADT A162	Suspension and Alignment	4

Third Semester

ADT A241	Diesel Fuel Systems	2
ADT A243	Heavy-Duty Electrical Systems	3
ADT A245	Diesel Engines	2
ADT A246	Diesel Service Laboratory I	5
WELD A112	Shielded Metal Arc Welding (4)	4
	or	
Other approved WELD course (4)		

Fourth Semester

ADT A248	Diesel Service Laboratory II	6
ADT A261	Hydraulics	2
ADT A263	Heavy-Duty Power Trains	2
ADT A265	Heavy-Duty Chassis	2

2. A total of 54 credits is required for the certificate.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATES OF COMPLETION

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	Auto Basics and Careers	3
ADT A121	Auto Electrical I	3
ADT A131	Auto Electrical II	3
ADT A195	Automotive Practicum I	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	Auto Basics and Careers	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	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	Auto Basics and Careers	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	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	Auto Basics and Careers	3
ADT A121	Auto Electrical I	3
ADT A130	Basic Auto Engines	3
ADT A131	Auto Electrical II	3
ADT A211	Auto Fuel Systems	4
ADT A212	Engine Performance	6
ADT A214	Emission Systems	4
ADT A295	Automotive Practicum II	3

2. A total of 29 credits is required for the nontranscripted departmental certificate of completion.

ASSOCIATE OF APPLIED SCIENCE, AUTOMOTIVE TECHNOLOGY

GENERAL PROGRAM

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	Auto Basics and Careers	3
ADT A111	Power Trains I	3
ADT A121	Auto Electrical I	3
ADT A130	Basic Auto Engines	3
One AAS degree requirement		3

Second Semester

ADT A114	Power Trains II	3
ADT A131	Auto Electrical II	3
ADT A150	Brake Systems	4
ADT A162	Suspension and Alignment	4
One AAS degree requirement		3

Third Semester

ADT A195	Automotive Practicum I	6
One AAS degree requirement		3

Fourth Semester

ADT A211	Auto Fuel Systems	4
ADT A212	Engine Performance	6
ADT A214	Emission Systems	4
One AAS degree requirement		3

Fifth Semester

ADT A225	Auto Heating and A/C	3
ADT A227	Auto Electrical III	3
ADT A282	Power Trains III (3)	3
	or	
ADT A295	Automotive Practicum II (3)	
One AAS degree requirement		3

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

FORD ASSET PROGRAM

ADMISSION REQUIREMENTS

Specific admission requirements apply to this program. 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.

ASSOCIATE OF APPLIED SCIENCE, DIESEL TECHNOLOGY

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	Auto Basics and Careers	3
ADT A111	Power Trains I	3
ADT A121	Auto Electrical I	3
ADT A130	Basic Auto Engines	3
One AAS degree requirement		3

Second Semester

ADT A114	Power Trains II	3
ADT A131	Auto Electrical II	3
ADT A150	Brake Systems	4
ADT A162	Suspension and Alignment	4
One AAS degree requirement		3

Third Semester

ADT A241	Diesel Fuel Systems	2
ADT A243	Heavy-Duty Electrical Systems	3
ADT A245	Diesel Engines	2
ADT A246	Diesel Service Laboratory I	5
WELD A112	Shielded Metal Arc Welding (4)	4
	or	
Other approved WELD course (4)		
One AAS degree requirement		3

Fourth Semester

ADT A248	Diesel Service Laboratory II	6
ADT A261	Hydraulics	2
ADT A263	Heavy-Duty Power Trains	2
ADT A265	Heavy-Duty Chassis	2
Two AAS degree requirements		6

2. A total of 69 credits is required for the degree.

AVIATION TECHNOLOGY

Students majoring in another discipline who which to minor in Aviation Technology must complete the following requirements. A total of 18 credits are required for the minor, 6 of which must be upper-division. Students are encouraged to select courses from the following list. However, prior approval of other AT courses may be sought from the Aviation Technology Division.

AVIATION TECHNOLOGY MINOR

AT A100	Private Pilot Ground School (4)
AT A132	Survey of Aviation (3)
AT A133	Aviation Law and Regulations (3)
AT A135	Management: Airport (3)
AT A136	Management: Air Service Operations (3)
AT A142	Control Environment (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)
AT A233	Aviation Safety (3)
AT A235	Elements of Weather (3)
AT A245	Pilot/Controller Techniques (3)
AT A285/L	Aircraft Bonded Structures and Lab (5)
AT A331	Human Factors in Aviation (3)
AT A362	Aerodynamics and Flight Performance (4)
AT A420	Overview of US Civil Aviation (6)
AT A431	Aircraft Accident Investigation (3)

AIR TRAFFIC CONTROL INTRODUCTION

The Air Traffic Control program prepares students for work in the FAA Air Traffic Control system. It also fulfills lower-division requirements for certain baccalaureate degree programs and provides recurrency for personnel in air traffic control. Areas of study include aviation weather, radar environment, air traffic control regulations, and basic responsibilities of first-level field supervisors. Simulated flight training in the department's Link Trainer is featured, and air traffic control students practice controlling airplanes in a lab. Students visit several air traffic control facilities in Anchorage, some of which offer intern programs. The FAA has identified Air Traffic Control as a "Pre-Hire" program which will enhance FAA employment placement to qualified graduates.

The AAS degree may be completed in 4 semesters with a course load of 15 credits each semester. Students with no prior background in aviation should begin course work in the fall semester.

ASSOCIATE OF APPLIED SCIENCE, AIR TRAFFIC CONTROL

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs 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 as required in FAR 61.53, 63.19, and 65.49.
2. 30-year-old maximum age restriction for students anticipating employment in terminal or en route options.

Students with low reading comprehension and math skills should first take preparatory courses. The ATC program requires extensive reading and interpreting of technical information.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter. ENGL 212 is recommended.

MAJOR REQUIREMENTS

1. Complete the following required courses (43 credits):

AT A116	Instrument Ground School	4
AT A140	Air Traffic Control History	3
AT A141	Aviation Weather	3
AT A142	Control Environment	3
AT A143	Air Traffic Control Regulations	3
AT A144	Air Traffic Control Airborne Lab	2
AT A145	Principles of Flight	3
AT A146	Air Traffic Control Intern Program	4
AT A240	Operations in Flight Service Station	3
AT A241	Airport Traffic Control	3
AT A242	Procedures for Control of Instrument Traffic (PCIT) I	3
AT A243	Procedures for Control of Instrument Traffic (PCIT) II	3
AT A244	Procedures for Control of Instrument Traffic (PCIT) III	3
AT A245	Pilot/Controller Techniques	3

2. Electives 3
3. A total of 61 credits is required for the degree.

AVIATION ADMINISTRATION INTRODUCTION

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 in Technology degree offered through the Community and Technical College. Interested students should contact the Aviation faculty for full details on both programs.

ASSOCIATE OF APPLIED SCIENCE, AVIATION 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 (31 credits):

AT A100	Private Pilot Ground School	4
AT A132	Survey of Aviation	3
AT A133	Aviation Law and Regulations	3
AT A134	Principles of Aviation Administration	3
AT A135	Management: Airport	3
AT A136	Management: Air Service Operation	3
AT A233	Aviation Safety	3
AT A235	Elements of Weather	3
AT A236	Management: Airline	3
BA A151	Introduction to Business (3)	3
	or	
BA A231*	Fundamentals of Supervision (3)	

2. Complete 15 credits of electives. The following is a recommended list: 15

ACCT A101	Principles of Financial Accounting I (3)
ACCT A102	Principles of Financial Accounting II (3)
BA A166*	Small Business Management (3)
CIOS A105	Introduction to PC Computers and Applications (3)
ECON A201	Principles of Macroeconomics (3)
PSY A111	General Psychology (3)

3. A total of 61 credits is required for the degree.

**Required of students completing the BS in Technology, Airway Science Option.*

AVIATION MAINTENANCE TECHNOLOGY INTRODUCTION

The Aviation Maintenance Technology program is an FAA-approved and nationally recognized course of study that is designed to prepare graduates for entry-level positions as technicians for general aviation, corporate aviation, airlines or manufacturers. The curriculum offers emphasis on modern aircraft systems such as electronics, composite structures, automatic controls and turbine engines. Graduates are employed worldwide in many phases of aviation. Students may choose to pursue an FAA mechanic's certificate with airframe and powerplant ratings or an Associate of Applied Science degree in Aviation Maintenance Technology.

Successful progress through the AMT program requires that all students have minimum algebra proficiency at the MATH 055 level (MATH A105 recommended, see application procedures below). Math courses should be taken prior to entry into the AMT program; however, under some circumstances, the course may be taken during the first semester along with certain other aviation maintenance courses. Taking courses out of sequence will probably extend the program beyond its normal length. Students in the certificate or degree program who take courses out of sequence are enrolled on a space-available basis. Many AMT courses have prerequisites. Faculty permission is required prior to registration for any AMT course.

The AAS degree is an FAA Airway Science recognized program and requires 22 credits beyond the certificate program. Students with no prior college level courses should plan to attend full-time for 6 semesters to complete the AAS degree in Aviation Maintenance Technology.

AMT students may continue their studies while pursuing a Bachelor of Science in Technology degree at UAA. Other universities offering baccalaureate degrees in Aviation Maintenance Technology or related fields (Aircraft Maintenance Engineering, Aircraft Maintenance Management, etc.) accept credits, certificates, and degrees earned at UAA to apply to their four-year degrees. The actual number of credits that transfer and how they apply to the degree are determined by the receiving institution. Those intending to pursue a four-year degree in Aviation Maintenance Technology are urged to discuss their plans with an AMT faculty advisor.

AAS degree candidates who have completed an FAA approved program in aviation maintenance at an accredited institution, and who have passed all courses in the major field with a grade of "C" or better, and who currently hold a valid FAA mechanic's certificate with airframe and powerplant ratings may, with the approval of the department, substitute that certificate and training for all or a portion of the major degree requirements for the AAS degree in Aviation Maintenance Technology.

ADMISSION REQUIREMENTS, CERTIFICATE AND DEGREE

Complete the following application procedures:

1. Apply for admission to UAA and to the AMT program by contacting the Aviation Maintenance Technology (AMT) program, University of Alaska Anchorage, 2811 Merrill Field Drive, Anchorage, Alaska 99501. Telephone: (907) A264-7400.
2. Have official high school transcripts, or official GED, and any vocational-technical training certificates sent to UAA Enrollment Services.
3. Present evidence to the AMT program of math competency equivalent to completion of MATH 055. This may be accomplished by:
   a. presentation of college transcripts for department evaluation, or
   b. by attaining an appropriate score on a PHYS A110 entrance exam administered by the UAA Advising and Counseling Center. (Please call (907) 786-4500 to make arrangements.)
4. Demonstrate English language proficiency through appropriate score on English Placement Test administered by UAA Advising and Counseling Center or through presentation of transcripts for department evaluation. Generally, applicants prepared for entry into ENGL A108-109 have sufficient proficiency for entry into the AMT program.

CERTIFICATE
AVIATION MAINTENANCE TECHNOLOGY

ADMISSION REQUIREMENTS

See Admission Requirements, Certificate and Degree above.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:

AT A170	Acft Ground Operations and Safety	1
AT A171	Basic Aerodynamics	3
AT A172	Publications, Regulations and Records	3
AT A173	Acft Electrical Hardware	3
AT A174	Acft DC Electrical Systems	3
AT A174L	Acft DC Electrical Systems Lab	1
AT A175	Drawing and Precision Measurement	2
AT A176	Acft Materials and Processes I	2
AT A177	Recip Engine Theory	2
AT A178	Turbine Engine Theory	2
AT A181	Fuel Systems	3
AT A181L	Fuel Systems Lab	1
AT A183	Acft Electrical Machinery	2
AT A183L	Acft Electrical Machinery Lab	1
AT A184	Acft AC Electrical Systems	3
AT A184L	Acft AC Electrical Systems Lab	1
AT A185	Sheetmetal Structures	3
AT A185L	Sheetmetal Structures Lab	2
AT A186	Non-destructive Inspection Methods	3
AT A187	Recip Engine Overhaul	3
AT A187L	Recip Engine Overhaul Lab	2
AT A273	Fluid Power Systems	3
AT A273L	Fluid Power Systems Lab	2
AT A274	Acft Electronic Systems	5
AT A274L	Acft Electronic Systems Lab	1
AT A276	Propeller Systems	1
AT A277	Recip Engine Installation and Operations	3
AT A277L	Recip Engine Installation and Operations Lab	2
AT A279	Turbine Engine Repair and Overhaul	3
AT A279L	Turbine Engine Repair and Overhaul Lab	1
AT A283	Acft Auxiliary Systems	3
AT A283L	Acft Auxiliary Systems Lab	1
AT A285	Bonded Structures	4
AT A285L	Bonded Structures Lab	1
AT A286	Acft Materials and Processes II	2
AT A289	Turbine Engine Installation and Operations	2
AT A289L	Turbine Engine Installation and Operations Lab	2
AT A364	Avionics Systems	3
AT A367	Acft Assembly and Inspections	4
AT A367L	Acft Assembly and Inspections Lab	2

2. A total of 91 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, AVIATION MAINTENANCE TECHNOLOGY

ADMISSION REQUIREMENTS

1. Satisfy all requirements for admission to the certificate program.
2. This degree requires two special competencies:

A. Computer competency which may be demonstrated in one of the following ways:
   1. A 3 credit course in a computer language or an introductory course in data processing or microcomputers.
   2. Work-related experience verifying computer literacy as approved by the faculty advisor.
   3. Self-initiated computer literacy as approved by the faculty advisor.

B. An overview of aviation demonstrated in one of the following ways:
   1. Satisfactorily complete AT A100 or AT A132.
   2. Possess an FAA Private Pilot certificate.
   3. Present evidence of passing the FAA Private Pilot written exam.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses (91 credits):

AT A170	Acft Ground Operations and Safety	1
AT A171	Basic Aerodynamics	3
AT A172	Publications, Regulations and Records	3
AT A173	Acft Electrical Hardware	3
AT A174	Acft DC Electrical Systems	3
AT A174L	Acft DC Electrical Systems Lab	1
AT A175	Drawing and Precision Measurement	2
AT A176	Acft Materials and Processes I	2
AT A177	Recip Engine Theory	2
AT A178	Turbine Engine Theory	2
AT A181	Fuel Systems	3
AT A181L	Fuel Systems Lab	1
AT A183	Acft Electrical Machinery	2
AT A183L	Acft Electrical Machinery Lab	1
AT A184	Acft AC Electrical Systems	3
AT A184L	Acft AC Electrical Systems Lab	1
AT A185	Sheetmetal Structures	3
AT A185L	Sheetmetal Structures Lab	2
AT A186	Non-destructive Inspection Methods	3
AT A187	Recip Engine Overhaul	3
AT A187L	Recip Engine Overhaul Lab	2
AT A273	Fluid Power Systems	3
AT A273L	Fluid Power Systems Lab	2
AT A274	Acft Electronic Systems	5
AT A274L	Acft Electronic Systems Lab	1
AT A276	Propeller Systems	1
AT A277	Recip Engine Installation and Operations	3
AT A277L	Recip Engine Installation and Operations Lab	2
AT A279	Turbine Engine Repair and Overhaul	3
AT A279L	Turbine Engine Repair and Overhaul Lab	1
AT A283	Acft Auxiliary Systems	3
AT A283L	Acft Auxiliary Systems Lab	1
AT A285	Bonded Structures	4
AT A285L	Bonded Structures Lab	1
AT A286	Acft Materials and Processes II	2
AT A289	Turbine Engine Installation and Operations	2
AT A289L	Turbine Engine Installation and Operations Lab	2
AT A364	Avionics Systems	3
AT A367	Acft Assembly and Inspections	4
AT A367L	Acft Assembly and Inspections Lab	2

2. Complete the following (13 credits):

6 of these credits may also be used to fulfill the AAS General Degree Requirements located at the beginning of this chapter.

A.	Humanities elective*	3
B.	Social Sciences elective (PSY A111 recommended).	3
C.	MATH A105 Intermediate Algebra	3
D.	PHYS A110 Physics for Technicians	4

3. A total of 113 credits is required for the degree.

**Any English courses used to satisfy the Humanities general requirement must be different from the written communications requirement and have a course number higher than ENGL A111.*

PROFESSIONAL PILOTING INTRODUCTION

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. 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 program, or Technology as their intended Bachelor of Science program major. The Associate of Applied Science degree may be completed in four semesters. Flying courses may be scheduled during any semester: fall, spring, or summer. Regular attendance is required in all university academic courses, and mandatory in those ground schools operated under Part 141 of the Federal Aviation Regulations.

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.

Costs for flight training are not included in tuition and fees. These costs are in addition to normally charged university tuition and fees.

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.

ASSOCIATE OF APPLIED SCIENCE, PROFESSIONAL PILOTING

ADMISSION REQUIREMENTS

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

This degree requires computer competency which may be demonstrated in one of three 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.

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:

A. Ground school and lecture courses (33 credits required):

AT A100	Private Pilot Ground School	4
AT A116	Instrument Ground School	4
AT A117	Commercial Ground School	4
AT A132	Survey of Aviation	3
AT A133	Aviation Law and Regulations	3
AT A221	CFI Ground School (3)	3
	or	
AT A229	ATP Ground School (3)	
AT A231	Search, Survival, and Rescue	3
AT A233	Aviation Safety	3
AT A235	Elements of Weather	3
AT A236	Management: Airline	3

B. Flight instruction courses (9 credits required):

AT A101	Pre-Professional Flying	2
AT A216	Instrument Flying (2)	5
	and	
AT A217	Commercial Flying (3)	
	or the next six courses:	
AT A113	Commercial Flying Maneuvers (1)	
AT A114	Basic Instrument Flying (.5)	
AT A115	Commercial X-C Flying (1.5)	
AT A213	Intermediate IFR Flying (.5)	
AT A214	Advanced IFR Flying (.5)	
AT A215	Comm/IFR Review and Certification (1)	
AT A223	CFI Flying (2)	2
	or	
AT A230	ATP Flying (2)	

2. Complete the following (12 credits):

A and B should be selected from the AAS General Degree Requirements located at the beginning of this chapter.

A. Humanities elective*		3
B. Social Sciences elective (PSY A111 recommended)		3
C. MATH A105	Intermediate Algebra	3
D. PHYS A101	Survey of Physics(3)	3
	or	
VE A301	Principles of Technology (3)	

3. A total of 63 credits is required for the degree.

COMPUTER ELECTRONICS

INTRODUCTION

This two-year degree program trains students in maintenance and repair of digital/computer equipment including computer circuitry, hands-on maintenance, electronic fundamentals and programming. Students are prepared for employment as computer technicians, field service representatives, and other jobs requiring electronic skills.

ASSOCIATE OF APPLIED SCIENCE, COMPUTER ELECTRONICS

The Computer Electronics program is offered only at Kenai Peninsula College.

ADMISSION REQUIREMENTS

1. ASSET placement at the MATH A100 entry-level or above.
2. ASSET placement for reading at the ENGL A110 level or above.
3. Students placing below these math and reading levels on ASSET must see a faculty advisor in computer electronics prior to registering for computer electronics courses.

GENERAL UNIVERSITY REQUIREMENTS

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

COMMUNICATION AND GENERAL REQUIREMENTS

1. Communication Requirements

ENGL A111	Methods of Written Communication	3
ENGL A212	Technical Writing	3
COMM A111	Fundamentals of Oral Communication	3

2. General Requirements

MATH A101	Technical Mathematics	3
MATH A105	Intermediate Algebra	3
PHYS A123/L	Basic Physics I (4)	8
	and	
PHYS A124/L	Basic Physics II (4)	
	or	
PHYS A115	Physical Science I for Technicians (4)	
	and	
PHYS A116	Physical Science II for Technicians (4)	

MAJOR REQUIREMENTS

1. Complete the following required courses (35 credits):

CIOS A110	Computer Concepts in Business	3
CS A105	FORTRAN Programming (3)	3
	or	
CS A107	Pascal Programming (3)	
	or	
CS A207	C Programming (3)	
ET A101	Basic Electronics: DC Physics	4
ET A102	Basic Electronics: AC Physics	4
ET A126	Principles of Logic and Gating	4
ET A175	Technical Introduction to Microcomputers	3
ET A240	Application of Integrated Circuits	3
ET A241	Microcomputer Interfacing	3
ET A242	Computer Peripheral Devices	4
ET A245	Basic Electronics	4

2. Electives 2
3. A total of 60 credits is required for the degree.

CULINARY ARTS AND HOSPITALITY

INTRODUCTION

The Culinary Arts and Hospitality Division includes the Associate of Applied Science (AAS) degree in Culinary Arts, and the nontranscripted departmental certificates of completion for the Dietary Manager and the Floral Design programs.

The Culinary Arts Program provides students the opportunity to acquire the culinary skills needed to develop a career in the ever expanding commercial foodservice industry. An array of career possibilities are available to graduates in the areas of culinary production and foodservice management to restaurants, clubs, bakeries, hotels, hospitals, camps, catering facilities, institutions and other operations that provide foodservice.

The Associate of Applied Science degree (AAS) generally requires two years to complete. 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.

Full-time and part-time students must successfully complete, with a grade of "C" or better, a 12 credit core curriculum as a prerequisite to enrolling in culinary and bakery skill development courses. With additional culinary electives, students may focus their studies in culinary/bakery, management or hospitality.

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

The capstone experience is a 225 hour internship designed to provide direct hands-on advanced culinary skills, in the third or fourth semester. Arranged by the department, internships are paid or unpaid work experiences at an approved foodservice site.

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 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.

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:

CA A102	Nutrition	4
CA A103	Culinary Skill Development	4
CA A104	Sanitation	2
CA A105	Principles of Food Science	3
CA A107	Culinary Cost Control	2
CA A110	Quantity Food Purchasing	2
CA A111	Bakery Skill Development	4
CA A201	A la Carte Kitchen	4
CA A202	Advanced Bakery	4
CA A224	Hospitality Service	3
CA A230	Foodservice Management	3
CA A295C	Foodservice Arts Internship	3

2. Complete a minimum of 8 credits from the following: 8

CA A113	Culinary Meats and Charcuterie (3)
CA A114	Beverages (2)
CA A220	Foodservice Operations (3)
CA A223	Advanced Foods: Buffet and Garde Manger (3)
CA A225	Menu Making/Facility Layout and Design (3)
CA A233	Advanced Pastry (3)
*CA A490	Current Topics in Foodservice and Nutrition (1-3)

**Only 3 credits of CA A490 may be applied to the AAS Culinary Arts degree.*

COMPUTER COMPETENCY

The AAS in Culinary Arts requires demonstrated computer competency evidenced by any of the following:

a. A 3 credit or equivalent course using one or more of the following applications: wordprocessing, spreadsheets, databases, and communications, or an introductory course in data processing or microcomputers.

b. Work related experience verifying computer competency as approved by the faculty advisor.

c. Self-initiated computer competency as approved by the faculty advisor.

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

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE OF COMPLETION

DIETARY MANAGER

A Dietary Manager is a skilled and experienced generalist capable of assuming responsibility for all aspects of foodservice operations in consultation with a Registered Dietitian. Dietary Managers are employed by hospitals, nursing homes, schools, hotels, correctional facilities, pipeline camps, child care centers, senior citizen meal programs, and residential or retirement centers. The Joint Commission on the Accreditation of Health Care Organizations requires all hospital and nursing home foodservice supervisors to be Certified Dietary Managers.

The Dietary Manager component of the Culinary Arts program at UAA is a twenty credit group of courses designed to provide quality education and training to individuals currently employed in the foodservice industry or for college students who have completed Culinary Arts courses. One hundred and ninety hours of on-the-job work experience in health care related institutional foodservice is required by the Dietary Managers Association. The lectures are enhanced by the practicum experiences that reinforce foodservice skills, managerial operations, and nutritional care applications.

This program is accredited by the Dietary Managers Association of Lombard, Illinois. Upon completion, the student is eligible to: (1) apply for membership in the Dietary Managers Association (DMA) and (2) take the DMA certification examination.

ADMISSION REQUIREMENTS

Students must complete the following admission procedure:

1. Submit proof of graduation from high school or equivalent (GED).
2. Submit completed application form (obtained from Culinary Arts, (907-786-4728).
3. Request official transcripts from high school (and college, if applicable). Send to:

UAA Dietary Manager Program
Culinary Arts and Hospitality
Cuddy Center 108
3211 Providence Drive
Anchorage AK 99508
Please call: (907) 786-4728

4. Schedule ASSET screening test with Testing Coordinator, Advising and Counseling Center, please call (907)786-4500. The Center forwards test results to the Culinary Arts Office. If test score is low, remedial course work will be recommended.

Application to the program may be made at any time. Certain courses may be offered every two years. For more information, contact the Culinary Arts Program at (907)786-1487 or the Dietary Manager Program faculty at (907)786-4728.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:

CA A102	Nutrition	3
CA A104	Sanitation	2
CA A105	Principles of Food Science	3
CA A107	Culinary Cost Control	2
CA A220	Foodservice Operations	3
CA A230	Foodservice Management	3
CA A295A	Foodservice Operations Practicum	1.5
CA A295B	Foodservice Management Practicum	.5
DN A150	Introduction to Diet Therapy	1
DN A195	Nutritional Care Practicum	1

2. A total of 20 credits is required for the nontranscripted departmental certificate of completion.

DENTAL ASSISTING

INTRODUCTION

If you like helping people, enjoy working with your hands as well as your mind, and want a job with responsibility, a career in dental assisting may be for you.

The Dental Assisting program prepares students to become skilled members of the dental health care team. Assistants greatly increase the efficiency of the dentist in the delivery of oral health care and are valuable members of the dental care team.

The duties of the dental assistant are among the most comprehensive and varied in the dental office. The dental assistant performs a wide range of tasks requiring both interpersonal and technical skills. Some specific tasks dental assistants may perform include: assisting the dentist provide oral health care during a variety of procedures; exposing and processing radiographs (x-rays); recording the patient's medical history and vital signs; preparing and sterilizing the proper instruments and equipment for the dentist's use; providing the patient with post-operative instructions following surgery or some other type of dental treatment; showing patients how to brush and floss; making impressions of patients' teeth for study casts; performing office management tasks, such as scheduling appointments, answering the telephone, billing, and inventory control; and performing basic procedures in the dental office laboratory, such as trimming models, polishing appliances, and fabricating temporaries.

Since most dentists employ two or three dental assistants, employment opportunities in this field are widespread. Many types of practice settings are available to dental assistants. For example, an assistant may choose to work in a private practice or a group practice. In addition, an assistant can work in a general dentistry or specialty practice, such as oral and maxillofacial surgery, orthodontics, endodontics, periodontics, prosthodontics, or pediatric dentistry. Job opportunities also exist in public health facilities, federal government facilities, hospitals, dental school clinics, insurance companies, and vocational schools or community colleges and universities teaching others to become dental assistants.

There are many advantages to a career in dental assisting. Dental assisting is a real challenge, demanding versatility and a willingness to assume responsibility for a variety of different tasks. If you want outstanding working conditions where you will be in demand, dental assisting may be a career for you.

The Dental Assisting program is an 8-month program of classroom instruction and clinical experience. A certificate of completion is awarded after fulfilling requirements of this program. In addition, an associate of applied science degree is available for graduates who wish to complete additional courses required for a degree. A faculty advisor in the Dental Assisting program should be consulted prior to entry in the program.

The Dental Assisting program is accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and by the United States Department of Education. As a result of this, graduates are eligible to take the Dental Assisting National Board examination in General Chairside Assisting and upon successful completion will become Certified Dental Assistants.

ADMISSION TO THE PROGRAM

Special admission requirements and screening procedures are required. It is strongly recommended that interested individuals contact the advisor in the Department of Dental Assisting to review procedures and requirements for admission.

PREREQUISITES

Graduation from high school or equivalent (GED).

APPLICATION PROCEDURE

1. Complete a dental assisting application form and mail to the address below.
2. Request official transcripts from high school (and college, if applicable). Send to:
   UAA Dental Assisting Program
   Allied Health Science Building, Room 124
   3211 Providence Drive
   Anchorage AK 99508-4670
   Please call: (907) 786-6929 or (907) 786-6936
3. Contact UAA's Advising and Counseling Center at (907) 786-4500 to schedule the required testing for admission to the Dental Assisting program. The center will forward test results to the Dental Assisting program. If test scores are low, additional course work will be recommended to help you achieve your goal of completing the Dental Assisting program.
4. Request two letters of recommendation to be sent to the Dental Assisting program. Preferably these letters should come from former or current employers or instructors. The letters must include comments on applicant's ability, motivation, interpersonal skills, communication skills, and work habits.
5. The information listed above must be in applicant's file before they will be considered for enrollment in the program in the fall semester of the year applying.

Applications to the program may be made at any time; however, for enrollment in the fall semester, application must be completed by August 1. Applicants are encouraged to apply as early as possible so they can complete classes identified by test results as being necessary for successful completion of the program.

Selection Criteria - Applicants are selected for admission based upon their test scores, grades in high school and college, ability to complete the application process, and dental assisting experience. If test results are low and classes are recommended to improve reading comprehension levels, applicants will be advised and proof of successful course completion must be provided prior to acceptance into the program.

CERTIFICATE
DENTAL ASSISTING

ADMISSION REQUIREMENTS

See admission to the program and application procedure above.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:

DA A110	Dental Radiography	4
DA A121	Chairside Procedures I	6
DA A122	Chairside Procedures II	8
DA A123	Biomedical Sciences for Dental Assistants	4
DA A124	Dental Materials and Application I	2
DA A125	Dental Materials and Application II	2
DA A126	Dental Sciences for Dental Assistants	1
DA A127	Dental Practice Management and Professionalism	3
DA A128	Dental Communication Skills	2
DA A195A	Dental Assisting Practicum I	1
DA A195B	Dental Assisting Practicum II	3

2. A total of 36 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE,
DENTAL ASSISTING

ADMISSION REQUIREMENTS

See admission to the program and application procedure above.

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:

DA A110	Dental Radiography	4
BIOL A102	Introductory Biology (3)	4
	and	
BIOL A103	Introductory Biology Laboratory (1)	
	or	
BIOL A105	Fundamentals of Biology I (4)	
DA A121	Chairside Procedures I	6
DA A122	Chairside Procedures II	8
DA A123	Biomedical Sciences for Dental Assistants	4
DA A124	Dental Materials and Application I	2
DA A125	Dental Materials and Application II	2
DA A126	Dental Sciences for Dental Assistants	1
DA A127	Dental Practice Management and Professionalism	3
DA A128	Dental Communication Skills	2
DA A195A	Dental Assisting Practicum I	1
DA A195B	Dental Assisting Practicum II	3
DN A203	Normal Nutrition (3)	3
	or	
CA A102	Food and Nutrition (3)	
PSY A100	Understanding People (3)	3
	or	
PSY A150	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.

DENTAL HYGIENE

INTRODUCTION

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 prerequisite and general education courses and two years of course work in dental hygiene. The program prepares graduates clinically and academically to take the National and Western Regional Examining Boards for licensure.

The Dental Program application form asks a question concerning conviction of a misdemeanor felony. While conviction of a felony does not automatically bar a student from consideration for or selection to the Dental Hygiene program, conviction of a felony within five years of licensure application is evidence of unacceptable moral character and may result in denial of licensure. (Alaska Statutes 28.910, April 1991)

Due to the nature of the work of the dental hygienist, students are not permitted to work in the laboratory or clinic when under the influence of intoxicants, drugs or medications affecting psychomotor responses. Students suspected of substance abuse may be subjected to a drug test.

Possible transfer of credits is available to graduates of an ADA accredited dental assisting program. Contact the Dental Hygiene program advisor for details.

Expenses beyond tuition generally include activity fees, 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 volunteers 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. A faculty advisor will be assigned to provide specific application and admission requirements. Completion of the admission requirements does not guarantee selection into the Dental Hygiene program.

Prerequisites:

1. Graduation from high school or equivalent.
2. Completion of prerequisite classes in specific areas prior to application. The faculty advisor will provide a list of required prerequisite courses.

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 prerequisite courses.

Information and applications can be obtained by contacting:

UAA Dental Hygiene Program
Allied Health Science Building, Room 124
3211 Providence Drive
Anchorage AK 99508-4670
Please call: (907) 786-6929 or (907) 786-6936

Immunizations and Basic Life Support (BLS) certification are required by November of the first year enrolled in clinical courses. BLS certification and immunizations must be current throughout the program.

ACADEMIC PROGRESS

Students must earn at least 75 percent or higher in each dental hygiene course.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter. (ENGL A212 is recommended.)

MAJOR REQUIREMENTS

1. Complete the following required courses:

BIOL A111	Human Anatomy and Physiology I	4
BIOL A112	Human Anatomy and Physiology II	4
BIOL A240	Introductory Microbiology for Health Sciences	4
CHEM A103/L	Introduction to General and Organic Chemistry	4
CHEM A104/L	Introduction to Organic Chemistry and Biochemistry	4

Fall Semester - 1st year

DA A110	Dental Radiography	4
DH A111	Periodontics I	2
DH A112	Techniques I for Dental Hygienists	7
DH A114	Anatomy of the Orofacial Structures	2
DN A203	Normal Nutrition (3)	3
	or	
CA A102	Food and Nutrition (3)	

**Recommended. 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

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 A195	Clinical Practicum I	4
DH A113	Issues for Dental Hygiene	1

Fall Semester - 2nd year

DH A211	Current Periodontal Therapies	2
DH A212	Techniques III for Dental Hygienists	3
DH A214	Pathology of Oral Tissues	2
DH A310	Oral Pain Control	3
DH A292A	Clinical Seminar II	1
DH A295A	Clinical Practicum II	5

Spring Semester - 2nd year

DH A224	Principles of Dental Health	3
DH A292B	Clinical Seminar III	1
DH A295B	Clinical Practicum III	6

2. A total of 87 credits is required for the degree.

ELECTRONICS TECHNOLOGY

INTRODUCTION

The electronic industry continues to be one of the fastest growing in the world. Technological changes, the demand for improved communications, and computer/microprocessor equipment provide many opportunities for well-trained and motivated technicians. Both men and women are welcomed by the industry and UAA's program.

The Electronics Technology program offers a certificate for those who complete technical courses only. However, students are encouraged to complete the Associate of Applied Science degree for further career advancement.

The Anchorage Campus Electronics program is conventionally structured, and students attend class four hours per day, five days a week. Students may enter the Electronics Technology program in the fall or spring semester. Those who enter in the spring must attend classes during the summer session to complete the program in 4 consecutive semesters. Fall and spring semesters are 15 weeks, while the summer session is usually 14 weeks in duration.

The Matanuska-Susitna College Campus Electronics program is not structured in the conventional manner. Instead it is designed primarily as a self-paced, open-entry evening program for the student who requires more flexible scheduling. The program offers self-paced courses along with open laboratories for either full-time or part-time students. The program is adaptable to various work schedules.

The MSC Electronics Technology program offers a certificate of training following the second, third, or fourth semesters in addition to the Associate of Applied Science (AAS) degree.

The Electronics Technology program provides a thorough background in electronics preparing graduates for entry-level positions in most phases of the industry in Alaska. The Federal Aviation Administration has identified Electronics Technology at the Anchorage Campus as a "Pre-Hire" program which will enhance qualified graduates' placement with the FAA.

CERTIFICATES

ELECTRONICS TECHNOLOGY

Anchorage Campus

1. Complete the following requirements:

ET A103	Electronic Calculations I	4
ET A104	DC Circuits	4
ET A106	Electronics Laboratory I	4
ET A124	Electronic Calculations II	4
ET A125	AC Circuits	4
ET A126	Principles of Logic and Gating	4
ET A128	Solid State Electronics: Theory and Laboratory	4
ET A150	Introduction to Computer Electronics	4
ET A230	Telecommunications	4
ET A231	Audio	4
ET A232	Applied ICs	4
ET A233	Microcomputer Architecture	4
ET A250	Transmitters and Receivers	4
ET A251	Video Systems Analysis	4
ET A252	Computer Systems II	4
ET A253	Computer Systems III	4

2. A total of 64 credits is required for the Anchorage Campus certificate.

Matanuska-Susitna College Campus

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

1. Complete the following requirements:

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:

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:

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

Anchorage Campus

1. Complete the following requirements (64 credits):

ET A103	Electronic Calculations I	4
ET A104	DC Circuits	4
ET A106	Electronics Laboratory I	4
ET A124	Electronic Calculations II	4
ET A125	AC Circuits	4
ET A126	Principles of Logic and Gating	4
ET A128	Solid State Electronics: Theory and Laboratory	4
ET A150	Introduction to Computer Electronics	4
ET A230	Telecommunications	4
ET A231	Audio	4
ET A232	Applied ICs	4
ET A233	Microcomputer Architecture	4
ET A250	Transmitters and Receivers	4
ET A251	Video Systems Analysis	4
ET A252	Computer Systems II	4
ET A253	Computer Systems III	4

2. A total of 79 credits is required for the Anchorage Campus degree.

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.

FIRE SERVICE ADMINISTRATION

INTRODUCTION

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):

FSA A101	Introduction to Fire Science	3
FSA A105	Fundamentals of Fire Prevention	3
FSA A107	Fire Tactics and Strategy	3
FSA A111	Fire Company Organization and Management	3
FSA A117	Rescue Practices	3
FSA A202	Fire Hydraulics	3
FSA A204	Hazardous Materials I	3

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

EMT A130	Emergency Medical Technician I (6)
FSA A115	Fire Apparatus and Equipment (3)
FSA A121	Introduction to Fire Chemistry (3)
FSA A123	Fire Investigation I (3)
FSA A151	Wild Land Fire Control I (3)
FSA A206	Building Construction for Fire Protection (3)
FSA A210	Hazardous Materials II (3)
FSA A212	Related Codes and Ordinances (3)
FSA A214	Fire Protection Equipment and Systems (3)
FSA A217	Advanced Rescue Practices (3)

3. Complete an additional 15 credits of electives. 15
4. A total of 60 credits is required for the degree.

INDUSTRIAL PROCESS INSTRUMENTATION

INTRODUCTION

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

The Industrial Process Instrumentation program is offered only at Kenai Peninsula College.

ADMISSION REQUIREMENTS

1. ASSET placement at the MATH A100 entry-level or above.
2. ASSET placement for reading at the ENGL A107 level or above.
3. Students placing below these math and reading levels on ASSET must see a faculty advisor in the Industrial Process Instrumentation program prior to registering for instrumentation courses.

GENERAL UNIVERSITY REQUIREMENTS

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

COMMUNICATION AND GENERAL REQUIREMENTS

1. Communication Requirements

ENGL A111	Methods of Written Communication	3
ENGL A212	Technical Writing	3
COMM A111	Fundamentals of Oral Communication	3

2. General Requirements

MATH A105	Intermediate Algebra	3
PHYS A115	Physical Science for Technicians I (4)	8
	and	
PHYS A116	Physical Science for Technicians II (4)	
	or	
PHYS A123/L	Basic Physics I (4)	
	and	
CHEM A105/L	General Chemistry I (4)	

MAJOR REQUIREMENTS

1. Complete the following required courses (48 credits):

ET A101	Basic Electronics: DC Physics (4)4	
	or	
ET A151	Basic Electricity (4)	
ET A126	Principles of Logic and Gating	4
ET A175	Technical Introduction to Microcomputers	3
ET A240	Application of Integrated Circuits	3
ET A241	Microcomputer Interfacing	3
ET A245	Basic Electronics	4
ET A246	Electronic Industrial Instrumentation	3
PETR A106	Petroleum Science II	3
PETR A140	Industrial Process Instrumentation I	3
PETR A144	Industrial Process Instrumentation II	3
PETR A150	Mechanical Drafting for the Petroleum Industry (3)	3
	or	
PETR A155	Blueprint Reading (3)	
PETR A230	Practical Distillation (3)	3
	or	
PETR A231	Production Plant Operations (3)	
PETR A240	Industrial Process Instrumentation III	3
PETR A244	Industrial Process Instrumentation IV	3
PETR A270	Industrial Mechanical Equipment	3

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

MECHANICAL TECHNOLOGY

INTRODUCTION

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

The Mechanical Technology Program is offered only at Kenai Peninsula College.

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

**The students entering may have to take a hands-on test and may be required to take PETR A170 if the score is below an acceptable level.*

2. Choose a minimum of 14 credits from the following electives:

EDD A288	Computer Aided Drafting	4
ET A151	Basic Electricity	4
ET A207	Rotating Machinery	3
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

INTRODUCTION

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 secretarial and 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, health insurance clerk, and medical secretary. 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. Most courses are offered only once per year. Students who wish to obtain an Associate of Applied Science degree must complete additional courses. Part-time students are welcome.

Nontranscripted Departmental Certificate of Completion

A nontranscripted departmental certificate of completion for a one year course of study in medical assisting is available. Obtain brochure from the Medical Assisting Office.

ASSOCIATE OF APPLIED SCIENCE,
MEDICAL ASSISTING

ADMISSION REQUIREMENTS

The following prerequisites must be met by all students applying for admission to the Medical Assisting program:

1. High school graduation or equivalent (GED).
2. Keyboarding speed of 45 words per minute. Students who can type but have not reached this speed may enter the program and add a keyboarding course to their schedule.
3. Average or better spelling and English abilities.
4. Good health. A recent physical examination is required before externship.
5. Adult and child/infant CPR certifications are required prior to the start of externship.

Students must complete the following admission procedure:
1. Obtain an application from the Medical Assisting Office.
2. Have high school and college transcripts sent to the Medical Assisting program.
3. Apply to Advising and Counseling for the ASSET test, Math placement, and DAT Spelling 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:

ACCT A120	Bookkeeping for Business I	3
BIOL A100	Human Biology	3
CIOS A115D	Introduction to WordPerfect in DOS (1)	1
	or	
CIOS A215D	Advanced WordPerfect in DOS (1)	
CIOS A160	Business English	3
CIOS A170	Calculators	1
CA A102	Food and Nutrition	3
MA A101	Medical Terminology I	3
MA A104	Medical Terminology II	3
MA A120	Medical Office Procedures I	4
MA A125	Medical Office Procedures II	4
MA A140	Medical Transcription I	3
MA A141	Medical Transcription II	3
MA A150	Clinical Procedures I	4
MA A155	Clinical Procedures II	4
MA A195	Medical Office Externship	5
PSY A150	Human Development	3

2. Elective 1
3. A total of 60 credits is required for the degree

MEDICAL LABORATORY TECHNOLOGY

INTRODUCTION

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 Commission on Accreditation of Allied Health Education Programs (CAAHEP). CAAHEP is recognized by the United States Department of Education and the Council on Postsecondary 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).

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 A105/L and one of: BIOL A105, A106, A111, A112, or A240.
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. Sign agreement to abide by MLT safety and policy manual during training.

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 (52 credits):

CHEM A105	General Chemistry I	3
CHEM A105L	General Chemistry I Lab	1
MEDT A132	Introduction to Medical Laboratory Technology	3
MEDT A202	Clinical Chemistry	6
MEDT A203	Clinical Microbiology	6
MEDT A204	Hematology	4
MEDT A205	Advanced Hematology	3
MEDT A206	Serology	3
MEDT A207	Immunohematology	4
MEDT A208	Urine Analysis	3
MEDT A209	Parasitology and Mycology	2
MEDT A210	Instrumentation in Clinical Laboratory	2
MEDT A295	Clinical Practicum	12

2. Complete one of the following courses: 4

BIOL A105	Fundamentals of Biology I (4)
BIOL A106	Fundamentals of Biology II (4)
BIOL A111	Human Anatomy and Physiology I (4)
BIOL A112	Human Anatomy and Physiology II (4)
BIOL A240	Introductory Microbiology for Health Sciences (4)

Note: CHEM and BIOL courses must have been completed within the last five years. MEDT transfer courses must be approved by MEDT faculty.

3. A total of 65 credits is required for the degree.

PARAMEDICAL TECHNOLOGY

INTRODUCTION

Paramedics provide prehospital emergency care to acutely ill or injured patients under medical authority of licensed physicians. Individuals interested in pursuing a career as a paramedic should possess significant strength to lift and carry victims, good use of hands and fingers, good coordination, good judgment and emotional stability, and ability to work confidently under pressure. Students successfully completing the PMED courses meet the U.S. Department of Transportation National Standards for a Mobile Intensive Care Paramedic and are eligible to take the National Registry Examination required for licensure.

Two primary requirements of the program are the clinical rotations and the internship. Clinical rotations provide instruction and supervised practice of emergency medical skills in various units of hospitals within the Anchorage area. The field internship provides experience on an advanced life support mobile intensive care vehicle. Student interns are the third member of the rescue team and work under the direct supervision of a paramedic preceptor. Internship sites are arranged in various U.S. locations. Efforts are made to place students in geographic locations of their choice, however intern positions may not be available at all approved sites. Length of internship varies depending on the rescue call-volume in a location.

ASSOCIATE OF APPLIED SCIENCE, PARAMEDICAL TECHNOLOGY

ADMISSION REQUIREMENTS

Prospective students must contact the UAA Emergency Services Department for specific admission information. Completion of the UAA admission requirements does not guarantee selection into the Paramedical Technology Program. A limited number of positions is available for each entering class. Information provided here is for general guidance only.

1. High school diploma or GED.
2. Current Alaska EMT I certification.
3. Current Basic Life Support Provider CPR certification.
4. Successful completion of a written examination.
5. Interview with selection committee members of the Paramedical Technology Program.

Note: To meet AAS degree requirements, nontraditional certified experience credit may be awarded to students with current paramedic licensure after they successfully complete PMED A310.

ACADEMIC PROGRESS

Students must earn a grade of "B" or higher in each PMED course.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the associate degree requirements located at the beginning of this chapter.
2. Complete the Associate of Applied Science degree requirements (15 credits) located at the beginning of this chapter. Engl A212 and COMM A111 are recommended. BIOL A111 and BIOL A112 fulfill the six-credit general requirement for the AAS degree.

MAJOR REQUIREMENTS

1. Complete the following required courses:

BIOL111	Human Anatomy and Physiology I	4
BIOL112	Human Anatomy and Physiology II	4
PMED101	Paramedicine I	8
PMED105	Paramedicine	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 A295	Internship	12

2. A total of 65 credits is required for the degree.

PETROLEUM ENGINEERING AIDE

INTRODUCTION

Students learn to assist professionals in all phases of oil and gas recovery. Degree graduates are prepared for engineering technician positions while others transfer into four-year engineering programs.

ASSOCIATE OF APPLIED SCIENCE, PETROLEUM ENGINEERING AIDE

The Petroleum Engineering Aide program is offered only through Kenai Peninsula College.

ADMISSION REQUIREMENTS

1. Placement at the MATH A107 level or above by test or courses taken.
2. ASSET placement for reading at the ENGL A107 level or above.
3. Students placing below these math and reading levels on ASSET must see a faculty advisor in Petroleum Technology prior to registering for petroleum engineering courses.

GENERAL UNIVERSITY REQUIREMENTS

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

COMMUNICATION AND GENERAL REQUIREMENTS

1. Communication Requirements

ENGL A111	Methods of Written Communication	3
ENGL A211	Academic Writings about Literature (3)	3
	or	
ENGL A212	Technical Writing (3)	
	or	
ENGL A213	Writing in the Academic Disciplines (3)	
COMM A111	Fundamentals of Oral Communication	3

2. General Requirements

MATH A200	Calculus I	4
MATH A201	Calculus II	4

MAJOR REQUIREMENTS

1. Complete the following required courses (34 credits):

CS A105	FORTRAN Programming	3
CHEM A105/L	General Chemistry I (4)	8
	and	
CHEM A106/L	General Chemistry II (4)	
	or	
GEOL A111	Physical Geology (4)	
	and	
GEOL A112	Historical Geology (4)	
PETR A106	Petroleum Science II	3
PETR A120	Surface Oil Field Equipment I	3
PETR A140	Industrial Process Instrumentation I	3
PETR A228	Petroleum Reservoir Engineering I	3
PETR A229	Production Engineering	3
PHYS A123/L	Basic Physics I	4
PHYS A124/L	Basic Physics II	4

2. Choose 6 credits from the following courses: 6

PETR A144	Industrial Process Instrumentation II (3)
PETR A227	Logging and Log Analysis (3)
PETR A230	Practical Distillation (3)
PETR A240	Industrial Process Instrumentation III (3)

3. Choose 4 credits from the following courses: 4

ET A101	Basic Electronics: DC Physics (4)
ET A102	Basic Electronics: AC Physics (4)
ET A151	Basic Electricity (4)
ET A245	Basic Electronics (4)

4. A total of 61 credits is required for the degree.

PETROLEUM TECHNOLOGY

INTRODUCTION

Kenai Peninsula College offers a one-year certificate program and a two-year Associate of Applied Science (AAS) degree in Petroleum Technology. The certificate provides specific training in petro/chemical plant operations or instrumentation. The instrumentation option requires students to take Industrial Process Instrumentation III during a third semester. The degree program allows students to gain an understanding of refinery, chemical plant, 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.

The Petroleum Technology program is offered only through Kenai Peninsula College.

CERTIFICATE

PETROLEUM TECHNOLOGY

Operations Option

1. Complete the following requirements:

ENGL A111	Methods of Written Communication	3
MATH A101	Technical Mathematics	3
PETR A105	Petroleum Science I	3
PETR A106	Petroleum Science II (3)	3
	or	
PETR A155	Blueprint Reading (3)	
PETR A120	Surface Oil Field Equipment I	3
PETR A140	Industrial Process Instrumentation I	3
PETR 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:

ENGL A111	Methods of Written Communication	3
ET A151	Basic Electricity	4
ET A245	Basic Electronics	4
ET A246	Electronic Industrial Instrumentation (3)	3
	or	
PETR A244	Industrial Process Instrumentation IV (3)	
MATH A101	Technical Mathematics	3
PETR A140	Industrial Process Instrumentation I	3
PETR 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 ENGL A110 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

ENGL A111	Methods of Written Communication	3
ENGL 212	Technical Writing	3
COMM A111	Fundamentals of Oral Communication	3

2. General Requirements

MATH A101	Technical Mathematics (3)	3
	or	
MATH A105	Intermediate Algebra (3)	
PHYS A115	Physical Science I for Technicians (4)	8
	and	
PHYS A116	Physical Science II for Technicians (4)	
	or	
PHYS A115	Physical Science I for Technicians (4)	
	and	
CHEM A105/L	General Chemistry I (4)	
	or	
PHYS A123/L	Basic Physics I (4)	
	and	
CHEM A105L	General Chemistry I (4)	
*CIOS A105	Introduction to PC Computers and Applications (3)	3
	or	
*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 A140	Industrial Process Instrumentation I	3
PETR A144	Industrial Process Instrumentation II	3
PETR A230	Practical Distillation (3)	3
	or	
PETR A231	Production Plant Operations (3)	
PETR A270	Industrial Mechanical Equipment	3

2. Choose 3 courses from the following (9-11 credits): 9-11

ET A101	Basic Electronics: DC Physics (4)
	or
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)
	or
PETR A155	Blueprint Reading (3)
PETR A170	Fundamentals of Mechanics (3)
PETR A227	Logging and Log Analysis (3)
PETR A230	Practical Distillation (3)
	or
PETR A231	Production Plant Operations (3)
PETR A235	Petroleum Laboratory Standards (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. 5-7
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 ENGL A111.*

REFRIGERATION AND HEATING TECHNOLOGY

INTRODUCTION

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, mechanical drawing, electricity, and the technical skills needed to diagnose and repair the modern commercial and domestic heating, refrigeration, air conditioning, and ventilation systems.

All students intending to enroll in the R and H program must successfully pass a standardized placement test in reading, writing, and mathematics. Successful completion is considered to be 50 percentile or above on each of the three tests.

Emphasis of the program is to prepare the student with job entry-level skills. Additional training must take place on the job. Students must complete required courses with a "C" (2.00) average.

The Refrigeration and Heating Technology program is offered only at Matanuska-Susitna College.

CERTIFICATE

REFRIGERATION AND HEATING TECHNOLOGY

1. Complete the following requirements:

First Year

RH A101	Refrigeration and Air Conditioning I	4
RH A103	Technical Math for Refrigeration and Heating I	3
RH A105	Electrical Circuits for Refrigeration and Heating I	3
RH A107	Physics for Refrigeration and Heating I	3
RH A122	Refrigeration and Air Conditioning II	4
RH A124	Domestic Refrigeration and Heating I	3
RH A126	Electrical Circuits for Refrigeration and Heating II	3
RH A128	Mechanical and Computer Drafting for Refrigeration and Heating I	3

Second Year

RH A201	Commercial and Ammonia Refrigeration	4
RH A202	Physics for Refrigeration and Heating II	3
RH A203	Control Systems for Refrigeration and Heating II	3
RH A207	Drafting for Refrigeration and Heating II	3
RH A225	Heating Plants I - Residential	4
RH A226	Heating Plants II - Commercial	4
RH A229	Solid State Electronics for Refrigeration and Heating	3

2. A total of 50 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, REFRIGERATION AND HEATING 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

1. Complete the following required courses:

RH A101	Refrigeration and Air Conditioning I	4
RH A103	Technical Math for Refrigeration and Heating I	3
RH A105	Electrical Circuits for Refrigeration and Heating I	3
RH A107	Physics for Refrigeration and Heating I	3
RH A122	Refrigeration and Air Conditioning II	4
RH A124	Domestic Refrigeration and Heating I	3
RH A126	Electrical Circuits for Refrigeration and Heating II	3
RH A128	Mechanical and Computer Drafting for Refrigeration and Heating I	3
RH A201	Commercial and Ammonia Refrigeration	4
RH A202	Physics Refrigeration and Heating II	3
RH A203	Control Systems for Refrigeration and Heating II	3
RH A207	Drafting Refrigeration and Heating II	3
RH A225	Heating Plants I - Residential	4
RH A226	Heating Plants II - Commercial	4
RH A229	Solid State Electronics for Refrigeration and Heating II	3

2. A total of 65 credits is required for the degree.

TECHNOLOGY

INTRODUCTION

The Bachelor of Science in Technology degree 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 in Technology degree 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: 1) Teacher Education qualifies students for an Alaska Type A teaching certificate, 2) Business enhances managerial/entrepreneurial skills, 3) Science and Technology advances technological skills, and 4) Airway Science is preparatory for careers in the aviation industry. Government agencies, school districts, corporations, and business and industry provide a ready market for graduates of this program.

BACHELOR OF SCIENCE, TECHNOLOGY

ADMISSION REQUIREMENTS

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

Students must complete an Associate of Applied Science degree from an accredited institution recognized by UAA or have earned equivalent credits in a technical specialty to achieve junior status in the baccalaureate program. Due to professional accreditation standards or the availability of UAA baccalaureate degrees, the following degrees are not accepted toward meeting the above requirement: Associate of Arts, and AAS in Nursing, Medical Laboratory Technology, and Surveying and Mapping/Geomatics.

This degree requires computer competency which may be demonstrated in one of the following ways:

1. A 3 credit or equivalent course using one or more of the following applications: word processing, spreadsheets, databases, and communications, or an introductory course in data processing or microcomputers.
2. Work-related experiences verifying computer competency as approved by the faculty advisor.
3. Demonstrated computer competency as approved by the faculty advisor.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. UNIVERSITY-WIDE 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). 45
2. Complete the following BST core requirements:

ENGL A312	Advanced Technical Writing	3
MATH A108	Trigonometry	3
MATH A200	Calculus I	4
Natural Sciences or Quantitative Skills*		9

**Choose 9 credits of Natural Sciences or Quantitative Skills courses (in addition to the A10 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 encourage 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:

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. (If applicable, may be taken as part of a General Education Requirement.) 6
3. A minimum of 145 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
	and	
TECH443	Total Quality Leadership(3)	
	or	
Upper-division electives offered by the College of Business and Public Policy and approved by the faculty advisor (6)		

2. A minimum of 120 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
TECH422	Senior Project	3
TECH433	Project Design, Implementation and Control	3
TECH443	Total Quality Leadership	3
VE A301	Principles of Technology	3

2. Complete a minimum of 9 credits from the following with faculty advisor approval: 9

AET A381	Geographic Information Systems: Technology and Applications (4)
ANTH A355	Medical Anthropology (3)
AT A332	Transport Aircraft Systems (3)
AT A361	Federal Aviation Administration Inspection Authorization (3)
AT A362	Aerodynamics and Flight Performance (4)
AT A363	Aerodynamics and Flight Performance Laboratory (4)
AT A364	Aircraft Avionics Systems (3)
AT A420	Overview of U.S. Civil Aviation (6)
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	Digital Systems (4)
ET A350	Federal Licensing Preparation (4)
ET A420	Applied Electronic Instrumentation (4)
HS A303	Preventive and Therapeutic Nutrition (3)
HS/SOC A370	Medical Sociology (3)
HS A379	Health Data Analysis (4)
HS/NS A433	Health Education: Theory and Practice (3)
HS A483	Policy and Prevention in Health (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 minimum of 122 credits is required for the Science and Technology Option, of which 42 credits must be upper-division

AIRWAY SCIENCE OPTION

ADDITIONAL ADMISSION REQUIREMENTS

This option is a specialized program available to Aviation students only. In addition to the BST admission requirements, Airway Science Option students must complete the following:

A.	Humanities elective*		3
B.	Social Sciences elective (PSY A111 recommended)		3
C.	MATH A105	Intermediate Algebra	3
D.	PHYS A101	Survey of Physics	3

**Any English courses used to satisfy the Humanities elective must be different from the written communications requirement and have course number higher than ENGL A111.*

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 12-15 credits of upper-division work in the fulfillment of General Education Requirements and Natural Sciences/Quantitative Skills Requirements.

Management Concentration:

1. Complete the following required courses:

AS A252	Elementary Statistics (3)	3
	or	
AS A307	Probability and Statistics (3)	
AT A331	Human Factors in Aviation	3
BA A300	Organizational Theory and Behavior	3
BA A361	Human Resource Management	3
BA A461	Negotiations and Conflict Management	3
CIOS A110	Computer Concepts in Business*	3
CS A100	Introduction to Computers*	3
PSY A111	General Psychology	3
PHYS A123/L	Basic Physics I	4
	and	
PHYS A124/L	Basic Physics II	4
	or	
VE A301	Principles of Technology	3
TECH A443	Total Quality Leadership	3

** 6 credits which develop computer skills are required in addition to the basic computer competency required for this degree (see Admissions Requirements). If CS A100 or CIOS A110 is used to satisfy the basic computer competency requirement, an additional 3 credit CS/CIOS course must be selected with faculty advisor approval.*

2. Select a minimum of 3 credits from the following courses with faculty advisor approval: 3

AT A332	Transport Aircraft Systems (3)
AT A362	Aerodynamics and Flight Performance (4)
AT A363	Aerodynamics and Flight Performance Laboratory (4)
AT A420	Overview of U.S. Civil Aviation (6)
AT A431	Aircraft Accident Investigation (3)
TECH A402	Operational Safety (3)
VE/TECH A412	Advanced Technical Experiences** (3)

***Discipline area must be aviation-related.*

3. Select a minimum of 6 upper-division credits from psychology, (PSY), human behavior (SOC), communications (JPC) or speech (COMM). 6

4. A minimum of 124-129 credits is required for the Airway Science Option, of which 42 credits must be upper-division.

WELDING TECHNOLOGY

INTRODUCTION

A 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
WELD A110	Blueprint Reading for Pipe Welders	3

2. Complete one of the following (4 credits): 4

WELD A108	Wire Welding (4)
WELD A109	TIG Welding (4)

All students must pass structural and pipe certification tests before receiving a certificate in Welding Technology.

3. A total of 28 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE,
WELDING TECHNOLOGY

ADMISSION REQUIREMENTS

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

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter. ENGL A212, MATH A105, and MATH A107 are recommended.

MAJOR REQUIREMENTS

1. Complete the following required courses (47 credits):

WELD A112	Shielded Metal Arc Welding	4
WELD A157	Technical Blueprints for Welders	3
WELD A161	Gas Metal Arc Welding	4
WELD A162	Flux Cored Welding	4
WELD A172	Physics for Welding	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 Radioisotope Radiography	4
WELD A281	Welding Inspection and Code Review	4
WELD A287	Welding Metallurgy Applications	5

2. Complete 2 credits of any WELD or CIOS course(s) (100-level or above)
3. Students are required to certify in three welding processes and one nondestructive testing process.
4. A total of 64 credits is required for the degree.

SCHOOL OF ENGINEERING

INTRODUCTION

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

INTRODUCTION

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; topographic surveying and geodesy; city management and developmental planning.

In addition to providing the training necessary for entrance into the professional practice of engineering, the undergraduate curriculum in Civil Engineering develops an excellent background for those desiring analytical and quantitative skills useful in their disciplines. The engineering programs at UAA emphasize northern region design considerations and principles. Engineering graduates from the program receive training appropriate for the Alaskan engineering job market.

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.

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. Students desiring to enter other fields can begin an engineering program at UAA, but should plan to transfer to another university at the end of their second year.

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).

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 the undergraduate Civil Engineering program may take courses in Engineering Science and/or Civil Engineering at the 200-level or above. Students not admitted to the program may petition the Department of Civil 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 his/her 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, he/she 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	2
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	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 Communications	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 A301	Engineering Analysis	3
ES A309	Elements of Electrical Engineering	3
ES A331	Mechanics of Materials	4
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

**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 UAA General 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 GEOL A111 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)
BIOL A371	Principles of Ecology (4)
CHEM A450	Environmental Chemistry (3)
GEOL A111	Physical Geology (4)
GEOL A115	Environmental Geology (3)
GEOL A261	General Geology for Engineers (3)
PHYS A303	Modern Physics (3)

Note: Geol A111 is the recommended course.

3. Two (2) technical elective courses (minimum 6 credits) are required and may be chosen from the 400-level or (by petition) 600-level courses offered by the School of Engineering. Graduate courses may not be applied to both a baccalaureate and masters degree.

   The technical elective courses used to meet this requirement must include a total of not less than two (2) semester credits of design component. The following courses are acceptable in meeting the technical elective requirement.

		Design Credits
CE A434	Timber Design (3)	3
CE A442	Environment System Design (3)	2
CE A603	Arctic Engineering (3)	0
CE A636	Design Multi-Story Structure (3)	3
CE A676	Coastal Engineering (3)	1
CE A681	Frozen Ground Engineering (3)	2
CE A682	Ice Engineering (3)	1
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

SECOND YEAR

Fall Semester (17 credits):

ENGL A211	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 (17 credits):

ES A210	Engineering Dynamics	3
ES A331	Mechanics of Materials	4
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 (15 credits):

CE A334	Properties of Materials	2
ES A301	Engineering Analysis	3
ES A309	Elements of Electrical Engineering	3
ES A341	Fluid Mechanics	4
Social Sciences/Humanities/Fine Arts GER		3

Spring Semester (16 credits):

CE A344	Water Resources Engineering	3
CE A402	Transportation Engineering	3
CE A431	Structural Analysis	4
ES A346	Basic Thermodynamics	3
Social Sciences/Humanities/Fine Arts GER		3

FOURTH YEAR

Fall Semester (18 credits):

CE A432	Steel Design	3
CE A435	Soil Mechanics	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 A433	Concrete Design	3
CE A438	Design of Engineering Systems	3
ESM A450	Economic Analysis and Operations	3
Technical Elective		3

ELECTRICAL ENGINEERING

INTRODUCTION

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 INTRODUCTION

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 his/her 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, he/she 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, students must complete the following courses:

MATH A200	Calculus I	4
MATH A201	Calculus II	4
MATH A202	Calculus III	4
MATH A302	Differential Equations	3
CHEM A105	General Chemistry I	3
CHEM A105L	General Chemistry I Lab	1
CHEM A106	General Chemistry II	3
CHEM A106L	General Chemistry II Lab	1
PHYS A211	General Physics I	3
PHYS A211L	General Physics I Lab	1
PHYS A212	General Physics II	3
PHYS A212L	General Physics II Lab	1
ENGL A111	Methods of Written Communication	3
ENGL A211	Academic Writing about Literature	3
	or	
ENGL A213	Writing in the Academic Disciplines	3
COMM A111	Fundamentals of Oral Communication	3
	or	
COMM A235	Small Group Communication	3
	or	
COMM A237	Interpersonal Communication	3
	or	
COMM 241	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	3
EE A204	Fundamentals of Electrical Engineering II	3

Plus 6 semester credit hours of course work in the areas of Humanities, Social Sciences and/or Fine Arts.

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
ENGL A211 or A213		3
ES A209	Engineering Statics	3
MATH A202	Calculus III	4
PHYS A211	General Physics I	3
PHYS A211L	General Physics I Lab	1

Spring Semester (18 credits)

EE A204	Fundamentals of Electrical Engineering II	4
ES A210	Engineering Dynamics	3
LS A101	Library Science	1
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 UAA General Education Requirements in these areas. Further, the selected courses should be approved by the student's advisor.

MECHANICAL ENGINEERING

INTRODUCTION

Mechanical engineers conceive, plan, design and direct the manufacturing, distribution and operation of a wide variety of devices, machines and systems for energy conversion, environmental control, materials processing, transportation, materials handling and other purposes. Mechanical engineers are engaged in creative design, applied research, development and management.

Because mechanical engineering is based on mathematics, chemistry, and physics, students are introduced to the basic principles in these areas during their first two years of study. They are also exposed to a variety of introductory courses in engineering science and to courses in communication, the humanities, social sciences and/or fine arts.

TWO-YEAR PROGRAM MECHANICAL ENGINEERING INTRODUCTION

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 his/her 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, he/she 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, students must complete the following courses:

MATH A200	Calculus I	4
MATH A201	Calculus II	4
MATH A202	Calculus III	4
MATH A302	Differential Equations	3
CHEM A105	General Chemistry I	3
CHEM A105L	General Chemistry I Lab	1
CHEM A106	General Chemistry II	3
CHEM A106L	General Chemistry II Lab	1
PHYS A211	General Physics I	3
PHYS A211L	General Physics I Lab	1
PHYS A212	General Physics II	3
PHYS A212L	General Physics II Lab	1
ENGL A111	Methods of Written Communications	3
	or	
ENGL A211	Academic Writing about Literature	3
ENGL A213	Writing in the Academic Disciplines	3
COMM A111	Fund. Of Oral Communication	3
	or	
COMM A235	Small Group Communication	3
	or	
COMM A237	Interpersonal Communication	3
	or	
COMM A241	Public Speaking	3
ES A111	Engineering Science	3
ES A 201	Computer Techniques	3
ES A209	Engineering Statics	3
ES A210	Engineering Dynamics	3
ES A331	Mechanics of Materials	4
ES A346	Basic Thermodynamics	3

Plus 9 semester credit hours of course work in the areas of Humanities, Social Sciences and/or Fine Arts.

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 Lab	1
ENGL A111	Methods of Written Communication	3
ES A111	Engineering Science	3
MATH A200	Calculus I	4
1 Social Science/Humanities/Fine Arts**		3

Spring Semester (17 credits)

CHEM A106	General Chemistry II	3
CHEM A106L	General Chemistry II Lab	1
COMM A111, A235, A237 or A241		3
ES A201	Computer Techniques	3
MATH A201	Calculus II	4
1 Social Science/Humanities/Fine Arts**		3

SECOND YEAR

Fall Semester (17 credits)

ENGL A211 or A213		3
ES A209	Engineering Statics	3
MATH A202	Calculus III	4
PHYS A211	General Physics I	3
PHYS A211L	General Physics I Lab	
1 Social Science/Humanities/Fine Arts**		3

Spring Semester (16 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 Lab	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.*

GEOMATICS

INTRODUCTION

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 UAA graduates highly recruited in the Alaska marketplace and eligible for employment worldwide. Students will find employment in private industry, government, and municipal agencies. Geomaticians working at the professional level enjoy responsibility and a choice of indoor and outdoor employment with many opportunities for advancement and diversification.

The new high tech fields open employment in geographic information systems (GIS), photogrammetry, remote sensing, land surveying, automated mapping, land design and planning, survey engineering, and resource management positions. In Alaska, geomaticians work on State and Native land claims, mining claims, fishing leases, petroleum reserves, forest selections, transportation corridors, private developments, government and military projects. In Alaska and elsewhere, geomaticians work in land surveying, land development and design, mapping and tax assessment, the defense industry, environmental engineering assessment and management, public safety and welfare, medicine, transportation, agriculture, business, and natural sciences.

Professional predictors indicate that employment opportunities will be strong for the various geomatics specialties in Alaska and the Pacific Rim well into the 21st century. While enrolled in the program, students are eligible for cooperative employment programs with government agencies and with private industry during the summer and for intern programs during the school year.

The Department of Geomatics accommodates a wide variety of student objectives from entry level to professional preparation and encourages the non-traditional student to return for training in current practices and principles.

Students seeking professional licensing as Registered land Surveyors and those who are interested in specializing in Survey Geomatics or Geographic Information Systems (GIS) should enroll in the Bachelor of Science degree program. For the most effective planning, Bachelor degree candidates should declare their intent by the second semester of their Geomatics studies.

ACCREDITATION

The Bachelor of Science degree program in Geomatics at UAA is accredited by the 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.

ASSOCIATE OF APPLIED SCIENCE, GEOMATICS

ADMISSION REQUIREMENTS

A. 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:

Mathematics	Algebra II
English	Composition (Skill level as demonstrated by ACT, SAT or UAA placement test to qualify for enrollment in ENGL A111.

The University offers courses to help students without this preparation to meet the skill level required in the Geomatics program. Insufficient preparation will increase the number of semesters required to complete either degree.

B. GENERAL UNIVERSITY REQUIREMENTS

See the beginning of this chapter for information on formal admission to undergraduate programs.

C. COMPUTER LITERACY REQUIREMENT

This degree requires computer competency which may be demonstrated in one of the following ways prior to enrollment in any GEO or GIS course for which computer competency is a prerequisite.

1. Satisfactory completion of a 3-credit course in a computer language or an introductory course in data processing or microcomputers.
2. Satisfactory score on computer proficiency examination administered by the Department of Geomatics.
3. Satisfactory completion of a data management seminar conducted by the Department of Geomatics.

GRADUATION REQUIREMENTS

A. 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 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. COMM A111 is recommended.

B. MAJOR REQUIREMENTS

1. Complete 4 credits in physics: 4
   - PHYS A123 Basic Physics I (3)
   - PHYS A123L Basic Physics I (1)
   - or
   - PHYS A211 General Physics I (3)
   - PHYS A211L General Physics I (1)
2. Complete one of the following: 3
   - CS A105 FORTRAN Programming (3)
   - CS A107 PASCAL Programming (3)
   - ES A201 Computer Techniques (3)
3. Complete one of the following: 3
   - CS A201 Programming Concepts I (3)
   - CS A207 C Programming (3)
   - CS A220 Hardware Concepts I (3)
4. Complete the following required courses:

ENGL A212	Technical Writing	3
MATH A108	Trigonometry	3
MATH A200	Calculus I	4
GEO A137	Auto. Mapping Techniques	3
GEO A155	Introduction to Geomatics	3
GEO A158	Geomatics Computer Fund.	3
GEO A166	Elements of Geomatics Measurements.	4
GEO A167	Remote Sensing & Image Analysis	4
GEO A248	Digital Terrain Cartography	3
GEO A256	Municipal and Civil Geomatics	4
GEO A257	Elements of Photogrammetry	3
GEO A267	Cadastral Boundary Law	4
GIS A268	Geographic Info. Systems (GIS)	4

5. A total of 61 credits is required for this degree.

C. ACADEMIC PROGRESS

Students must complete all major requirement courses with a grade of "C" or higher.

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) 15
- GEO A137 Auto. Mapping Techniques (3)
- GEO A155 Introduction to Geomatics (3)
- GEO A158 Geomatics Computer Fundamentals (3)
- MATH A108 Trigonometry (3)

A three (3) credit course selected from:
- CS A105 FORTRAN Programming (3)
- CS A107 PASCAL Programming(3)
- ES A201 Computer Techniques(3)

Spring Semester (18 credits) 18
- GEO A166 Elementary. of Geomatics Measurements (4)
- GEO A167 Remote Sensing & Image Analysis (4)
- MATH A200 Calculus I (4)
- ENGL A111 Methods of Written Communications (3)

A three (3) credit course selected from:
- CS A201 Programming Concepts I (3)
- CS A207 C Programming (3)
- CS A220 Hardware Concepts I (3)

SECOND YEAR

Fall Semester (14 credits) 14
- GEO A256 Municipal and Civil Geomatics (4)
- GEO A257 Elements of Photogrammetry (3)
- PHYS A123/L Basic Physics I (4)
- or
- PHYS A211/L General Physics I (4)
- COMM A111 Fundamentals of Oral Communication (3)
- or
- COMM A241 Public Speaking (3)

Spring Semester (14 credits) 14
- ENGL A212 Technical Writing (3)
- GEO A248 Digital Terrain Cartography (3)
- GEO A267 Cadastral Boundary Law (4)
- GIS A268 Elements of Geog. Info. Systems (GIS) (4)

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

BACHELOR OF SCIENCE, GEOMATICS

ADMISSION REQUIREMENTS

A. PREPARATION

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

Mathematics	Algebra II
	Trigonometry
Science	Physics
English Composition	

(Skill level as demonstrated by ACT, SAT or UAA placement test to qualify for enrollment in ENGL A111.

The University offers courses to help students without this preparation to meet the skill level required in the Geomatics program. Insufficient preparation will increase the number of semesters required to complete either degree.

B. GENERAL UNIVERSITY REQUIREMENTS

See the beginning of this chapter for information on formal admission to undergraduate programs.

C. COMPUTER LITERACY REQUIREMENT

This degree requires computer competency which may be demonstrated in one of the following ways prior to enrollment in any GEO or GIS course for which computer competency is a prerequisite.

1. Satisfactory completion of a 3-credit course in a computer language or an introductory course in data processing or microcomputers.
2. Satisfactory score on computer proficiency examination administered by the Department of Geomatics.
3. Satisfactory completion of a data management seminar conducted by the Department of Geomatics.

GRADUATION REQUIREMENTS

A. GENERAL UNIVERSITY REQUIREMENTS

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

B. 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 Lab (1)
PHYS A124	Basic Physics II (3)
PHYS A124L	Basic Physics II Lab (1)
	or
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)

These credits must be in addition to the 7 Natural Sciences credits taken to complete the General Education Requirement.

2. Complete the following:
   A three (3) credit course selected from: 3

CS A105	FORTRAN Programming (3)
CS A107	PASCAL Programming (3)
CS A201	Programming Concepts I (3)
ES A201	Computer Techniques (3)

3. Complete both of the following: 6

CS A207	C Programming (3)
ENGL A212	Technical Writing (3)

4. Complete one of the following: 3

ENGL A311	Advanced Exposition (3)
ENGL A312	Advanced Technical Writing (3)
ENGL A414	Research Writing (3)

5. Complete all of the following:

MATH A200	Calculus I (4)
MATH A201	Calculus II (4)
MATH A202	Calculus III (4)

6. Complete one of the following: 3

MATH A302	Ordinary Differential Equations (3)
MATH A314	Linear Algebra (3)
AS A307	Probability and Statistics (3)

7. Complete all of the following:

GEO A155	Introduction to Geomatics	3
GEO A157	Analytical and Digital Cartography	3
GEO A166	Elements of Geomatics Measurements	4
GEO A167	Remote Sensing and Image Analysis	4
GEO A256	Municipal and Civil Geomatics	4
GEO A257	Elements of Photogrammetry	3
GEO A267	Cadastral Boundary Law	4
GEO A355	Land Development and Design	3
GEO A359	Geodesy and Map Projections	3
GEO A365	Geomatic Adjustment and Analysis	4
GEO A457	Boundary Principles and Evidence	4
GEO A460	Geomatics Design Project	3
GEO A466	Geopositioning	3
GIS A268	Elements of Geographic Information Systems (GIS)	4
GIS A366	Spatial Information Analysis and Modeling	3

8. Complete at least 12 credits in one of the emphasis areas: 12

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	Analysis & Digital Photogrammetry	3
GEO A490	Selected Topics in Geomatics	3
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 A467	Analysis & Digital Photogrammetry	3
GEO A490	Selected Topics in Geomatics	3
GIS A468	Integration of Geomatic Technology	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

9. A total of 128 credits is required for the degree of which 42 must be upper division.

C. ACADEMIC STANDARDS

Students must complete all courses major requirements with a grade of "C" or higher.

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
ENGL A111	Methods of Written Communication	3
Complete one of the following:		3
CS A105	FORTRAN Programming	
CS A107	PASCAL Programming	
CS A201	Programming Concepts I	
ES A201	Computer Techniques	

Spring Semester (15 credits)

GEO A166	Elements of Geomatics Measurements	4
GEO A167	Remote Sensing and Image Analysis	4
MATH A201	Calculus II	4
CS A207	C Programming	3

SECOND YEAR

Fall Semester (18 credits)

GEO A256	Municipal and Civil Geomatics	4
GEO A257	Elements of Photogrammetry	3
PHYS A123	Basic Physics I (3)	4
PHYS A123L	Basic Physics I Lab (1)	
	or	
PHYS A211	General Physics I (3)	
PHYS A211L	General Physics I Lab (1)	
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)	
MATH A202	Calculus III	4

Spring Semester (15 credits)

GEO A267	Cadastral Boundary Law	4
GIS A268	Elements of Geographic Info. Systems (GIS)	4
ENGL A212	Technical Writing	3
PHYS A124	Basic Physics II (3)	4
PHYS A124L	Basic Physics II Lab (1)	
	or	
PHYS A212	General Physics II (3)	4
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 Elective:		
A three (3) credit course selected from:		3
GEO A358	Programming. for Digital Cartography (3)	
GIS A458	Design & Management of Spatial Data (3)	
A three (3) credit course selected from:		3
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 (15 credits)

GEO A365	Geomatic Adjustment & Analysis	4
Select 3 credits from the GEO or the GIS		
Emphasis Elective courses		3
GIS A366	Spatial Info. Analysis & Modeling	4
Natural Science Elective (with Lab) GER		4

Summer Semester (3 credits)

GEO A460	Geomatics Design Project	3

FOURTH YEAR

Fall Semester (16 credits)

GEO A457	Boundary Principles & Evidence	4
Select 3 credits from the GEO or the GIS		
Emphasis Elective courses		3
Select a 3 credit course from:		3
ENGL A311	Advanced Exposition (3)	
ENGL A312	Advanced Technical Writing (3)	
ENGL A414	Research Writing (3)	
Humanities Elective (3) GER		
Social Science Elective (3) GER		

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

Chapter 10

Graduate Admission and Degree Programs

Graduate School
Graduate General University Requirements
Major Program Requirements for Graduate 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 professional growth or for other goals, students may expect the challenges and rewards of high quality graduate education.

Upon successful completion of their graduate program, students will have demonstrated mastery of their disciplines. They will have participated in quality research activities either in the completion of their theses or the development of their graduate projects. Appropriate comprehensive exams allow students to express the knowledge they have acquired in forms unique to their respective programs.

To ensure the most beneficial educational experience, students' preparation and likelihood of success in their programs are carefully assessed and validated. Entrance requirements provide an opportunity for students to document their credentials and demonstrate readiness for graduate studies. If an entrance exam is required, the nature of that exam is determined by the appropriate discipline. As they progress in their studies, students can expect responsible advising from mentors in their programs.

Graduate students are subject to relevant policies contained in the complete UAA catalog, as well as individual program requirements.

ADMISSION REQUIREMENTS

Students who have earned or have nearly completed a baccalaureate degree from a regionally accredited institution in the United States, or a foreign equivalent, may apply for admission to graduate study or to fifth year certification programs at UAA.

Admission is granted to applicants who have received their baccalaureate degree and whose credentials indicate their ability to pursue graduate work. Each graduate program has specific standards for admission. Applicants must have either a cumulative grade point average (GPA) of 3.00 (B average on a 4.00 scale), or alternatively meet the GPA admission requirements of the specific graduate program to which they are applying. Some programs also require scores from national admissions examinations, such as the Graduate Record Examination (GRE) or the Graduate Management Admission Test (GMAT). 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 Chair.

Graduate students are subject to other relevant policies contained elsewhere in this catalog as well as individual program requirements.

APPLICATION FOR ADMISSION

When making application for admission to UAA, the student must submit the following directly to Enrollment Services:

1. A completed UAA Graduate Application for Admission and appropriate fee.
2. Official transcript(s), reflecting graduate level credits and credits pertaining to the baccalaureate degree, from each institution attended. Transcripts are to be requested by the student and must be submitted in an officially sealed envelope.
3. If required by the specific graduate program, official scores from entrance exams, such as the Graduate Records Exam (GRE) or the Graduate Management Admission Test (GMAT). 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 STUDENTS

Non-degree-seeking students who wish to register for graduate courses must have the Department Chair's or faculty member's signature. Registration as a non-degree—seeking student implies no commitment by the University to the student's later admission to a degree program. Non-degree-seeking students may not qualify for some financial aid benefits or the International Student Form I-20 A.

TRANSFER CREDITS

Up to 9 semester credits not previously used to obtain any other degree or certificate may be transferred to UAA from a regionally accredited institution and accepted toward a graduate degree or certificate. Quarter credits will be converted to semester credits by multiplying quarter credits by two-thirds. Acceptance of transfer credits toward program requirements is at the discretion of the individual program.

CHANGING DEGREE PROGRAMS

Graduates who wish to change degree programs must formally apply for admission to the new program through Enrollment Services and pay the appropriate fee. This applies both to changes between schools/colleges and to different degrees within a particular school or college, such as a change from the MFA in Creative Writing to the MA in English. Students will be expected to meet all admission and program requirements of their new major or emphasis area.

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

CHANGING MAJORS OR EMPHASIS AREAS

Students who wish to change majors or emphasis areas within the same degree and school or college, such as from an MED in Master Teacher to an MED 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 THE 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, if required; any special program requirements; and arrangements to remove any deficiencies in the student's academic background.
2. Approve the Official Graduate Studies Plan and application for candidacy at the time of advancement to candidacy.
3. Monitor the student's progress and timely completion of all requirements in the Official Graduate Studies Plan (see Continuous Registration).
4. Monitor the timely submission of the Official Graduate Studies Plan and other documents to Enrollment Services.
5. Review and approve any changes to the Official Graduate Studies Plan, directing timely submission of the revised plan to Enrollment Services.
6. Review and approve the thesis or major research project, including initial proposals, according to procedures established by the individual graduate program.
7. Review, and approve requests for temporary leaves of absence which, if approved, will result in the student being placed on inactive status.
8. Administer and assess the comprehensive exam and/or thesis defense.

OFFICIAL GRADUATE STUDIES PLAN

The Official Graduate Studies Plan formally establishes the specific program requirements which will, upon satisfactory completion, entitle the student to receive the graduate degree or certificate. The plan is based upon the catalog requirements for the graduate degree or certificate program to which the student has been accepted. The plan becomes official once it is approved by the Dean, Director and/or faculty of the program and is filed with Enrollment Services. Students are expected to complete all requirements listed on their Official Graduate Studies Plan, as well as all Graduate General University Requirements and University Requirements for Graduate Degrees. Any revision to the plan will need to be submitted to Enrollment Services through the graduate advisor/committee.

ADVANCEMENT TO CANDIDACY

After demonstrating an ability to succeed in graduate study as defined by the relevant graduate program, the student may apply for advancement to candidacy. Advancement to candidacy status is a prerequisite to graduation and is determined by the Dean, Director and/or faculty of the program. Candidacy is the point in a graduate study program at which the student has demonstrated an ability to master the subject matter in the program and has progressed to the level at which a graduate studies plan can be approved. To be approved for candidacy a student must:

1. Be in good standing as defined in the Satisfactory Academic 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.
6. Submit an approved Official Graduate Studies Plan.

CONTINUOUS REGISTRATION

Graduate students are expected to make continuous progress in their graduate program from admission through graduation. Continuous registration (except summer session) is required.

Continuous registration will be required beginning the semester following admission to the graduate program. Continuous registration allows students to remain active in the graduate program while physically absent from the campus.

Students must be continuously registered in at least 1 graduate credit applicable to the graduate program, or they must pay the continuous registration fee for every fall and spring semester until they complete all requirements for their degree or certificate. Students must also register or pay the continuous registration fee for the summer session if they use university facilities or consult with faculty during the summer session.

This fee can be paid during each semester's registration period or in Enrollment Services by the end of week 12 of the semester. Upon registration and payment of the continuous registration fee, a graduate student is considered active for the current semester. Students not making continuous progress or not on an approved leave of absence (see Leave of Absence) will be removed from graduate degree-seeking status.

LEAVE OF ABSENCE

While graduate students are expected to make continuous progress toward completion of their graduate program, there are instances where continuous registration is not possible. Students who need to temporarily suspend their studies must apply for a leave of absence through their advisor and committee chair. If the leave is approved, the student is placed on inactive status. Inactive status does not negate the policy which requires that all credits counted toward the degree or certificate, including transfer credits, be earned within a consecutive seven-year period prior to graduation. Students who fail to make continuous progress (see Continuous Registration) or to obtain an approved leave of absence may be removed from graduate degree-seeking status.

APPLICATION FOR GRADUATION

The graduate student must submit an Application for Graduation with the application fee to Enrollment Services no later than the end of week two of the semester in which he/she intends 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 his/her graduate program requirements and who is not on probation, is considered to be in good standing. For students admitted to candidacy, course work consists of those courses identified on the Official Graduate Studies Plan.

PROBATION

A graduate student whose GPA falls below 3.00 (B) in courses applicable to his/her graduate program, or a graduate student who, for reasons specified in writing by the student's advisor/committee and/or Dean or designee, is not making continuous satisfactory progress toward completing the program requirements will be placed on probation. If the requirements to remove probation are not satisfied within one semester (excluding summer), the student will be removed from graduate degree-seeking status. Each school/college has developed written procedures to deal with appeals arising from removal from graduate degree-seeking status.

REMOVAL FROM GRADUATE DEGREE-SEEKING STATUS

A graduate student's academic status may be changed to "non-degree-seeking" if the requirements to remove conditional admission or probation are not satisfied or if minimum academic standards are not met. In some cases, students may be removed from graduate degree-seeking status without having first been placed on probation (see non-degree-seeking students).

ACADEMIC APPEALS

Students have the right to appeal academic actions (see Academic Appeals, Chapter 8).

REINSTATEMENT TO GRADUATE DEGREE-SEEKING STATUS

Graduate students who have been removed from graduate degree-seeking status for failing to meet academic standards may apply for reinstatement to a graduate program after one calendar year from the semester in which they were removed from graduate degree-seeking status. When re-applying to graduate studies, it is the student's responsibility to demonstrate his/her 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 not 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. All credits counted toward the degree or certificate, including transfer credits, must be earned within the consecutive seven-year period prior to graduation.
10. Students must 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.
   A. In programs for which a thesis or research project is not required, at least three, but not more than six, credits earned for research may count toward the degree.
   B. 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 his/her degree.
4. All theses must meet general UAA requirements for format as determined by the UAA Consortium Library.

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.

PH.D./ED.D. DEGREES

UAA does not confer doctor's degrees at this time; however, several cooperative programs exist with other universities, allowing some course work to be completed at UAA and the degree to be granted by the other university.

SCHOOL OR PROGRAM REQUIREMENTS

Requirements vary by individual program. Some programs may be more restrictive than the Graduate General University Requirements or the University Requirements for Graduate Degrees. Students should contact the appropriate school or college for specific program requirements.

ADDITIONAL MASTER'S DEGREES

Students who have received a master's degree from a regionally accredited college or university may earn another master's degree by completing at least 21 resident credits beyond the previous master's degree. The student must meet all the Graduate General University Requirements, University Requirements for Graduate Degrees, School or College Requirements, and Program Requirements; fulfilling all university, college, and program requirements may require more than the minimum of 21 credits beyond the previous master's degree. If the 21 additional credits and other requirements have been earned for each additional degree, two or more degrees may be awarded simultaneously.

INTERDISCIPLINARY STUDIES DEGREE

A student who has received a baccalaureate degree from a regionally accredited institution and whose credentials indicate the ability to pursue graduate work may develop an interdisciplinary studies degree program (MA or MS). He/she must apply and meet all requirements for admission to the graduate programs involved. 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. At least one-half of the required credits must come from courses in two or more approved UAA graduate degree programs. Courses must come from two or more disciplines (i.e., prefixes). 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. Interdisciplinary Studies degree programs are not transferable to other University of Alaska campuses.

In addition to the requirements noted above, students must comply with the following procedures:

1. The student will submit a UAA Graduate Application for Admission (Interdisciplinary Studies Major) with the appropriate fee to Enrollment Services.
2. The student will develop an interdisciplinary studies proposed program plan specifying the degree (MA or MS) and title or concentration. In developing this proposal, the student should review all graduate degree policies and procedures. To receive an Interdisciplinary Studies graduate degree from UAA, the student must incorporate into his/her 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 his/her 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 Chancellor for Research and Graduate Studies for final approval. If the proposal and committee structure are approved by the Associate Vice Chancellor for Research and Graduate Studies, it will become the student's Official Graduate Studies Plan.
7. The graduate studies plan and complete admission packet will then be forwarded to the specific graduate programs for an acceptance decision. Acceptance is determined by the Dean, 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 his/her advisor and committee to insure that satisfactory progress is made toward completing degree requirements. After demonstrating an ability to succeed in graduate study, as defined by the committee and advisor, the student may apply for advancement to candidacy status (see Continuous Registration and Advancement to Candidacy).

EXCHANGE PROGRAMS

BIOMEDICAL

The Biomedical Program is affiliated with WWAMI, an educational agreement between the University of Washington School of Medicine (UWSM) and the states of Washington, Wyoming, Alaska, Montana, and Idaho. Through this program, UWSM accepts 10 certified Alaska residents each year into its entering class. Students in the program are enrolled concurrently at the University of Alaska Anchorage (UAA) and UWSM and receive their entire first year of medical education at the University of Alaska Anchorage. After completion of the first year, the students are headquartered in Seattle for the remaining three years of their medical education. UWSM medical students have the option of receiving clinical training in family medicine, internal medicine, pediatrics, psychiatry, and obstetrics/gynecology in Alaska. UWSM participates in the American Medical College Application Service (AMCAS) and all applicants must take the Medical College Admission Test (MCAT) in order to be considered. Acceptance into the program is offered through the Admissions Committee of UWSM. UAA can provide all of the course work needed to be competitive for acceptance into the WWAMI Program. For more information concerning WWAMI or a premedical curriculum at UAA, students can contact the Office of the Biomedical Program at (907) 786-4789.

WESTERN REGIONAL GRADUATE PROGRAM

UAA participates in the Western Regional Graduate Program (WRGP), a program of the Western Interstate Commission for Higher Education (WICHE). This program makes many high-quality graduate programs available to WICHE-state students at a reasonable cost. More importantly, WRGP includes most of the Western States. Through WRGP, residents of Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming are eligible to enroll at resident tuition in graduate programs in these 14 states. Currently, there are over 100 master's and doctoral programs. Additional programs may be approved.

Information about the available Western Regional Graduate Programs may be obtained from Enrollment Services. A brochure describing these opportunities is also available from:

WICHE Student Exchange Program
P. 0. Drawer P
Boulder, CO 80301-9752

NONTRANSCRIPTED INTERDISCIPLINARY CERTIFICATE OF COMPLETION IN SUBSTANCE ABUSE DISORDERS

INTRODUCTION

This program, coordinated by the Center for Alcohol and Addition Studies, is intended for students with baccalaureate degrees who wish to further their education with respect to substance abuse-related disorders. Students in graduate programs in human helping disciplines, such as social work, psychology, nursing, education, human services, as we as those in other health related fields, can further their understanding of substance abuse-related disorders through completion of this certificate program. The course of study is designed to help students meet the educational requirements for Substance Abuse Counselor Certification established for substance abuse counselors in Alaska. Additional hours of work experience in the chemical dependency field, however, are required to meet state certification standards.

REQUIREMENTS:

A minimum of 18 credits is required for this certificate, to be taken as follows:

1. Complete the following:
   - HS A484 Drug Actions of Psychoactive Drugs 3
2. Complete one of the following: 3
   - PSY A611 Ethics and Professional Issues (3)
   - SWK A653 Professional Issues for Social Workers (3)
3. Complete one of the following courses: 3
   - COUN A614 Counseling Diverse Populations (3)
   - NS A623 Transcultural Nursing in a Multicultural World (3)
   - PSY A654 Cultural Issues in Psychotherapy (3)
   - SWK A643 Human Diversity in Social Work Practice (3)
4. Complete one of the following courses: 3
   - PSY A682 Psychotherapy and Addictive Behaviors (3)
   - SWK A671 Addictions and Social Work (3)
5. Complete two approved electives from the following: 6
   - ED A633 Abuse and Minors: Sources and Solutions (3)
   - EDSE A671 Impact of Social Issues on Education (3)
   - PSY A643 AIDS and Substance Abuse Psychotherapy (3)
   - PSY A680 Selected Topics in Addictive Behaviors (3)
   - PSY A688 Assessment and Treatment Planning for Addictive Behaviors (3)
   - SWK A655 Social Work Approaches with Dually Diagnosed (3)
6. Completion of each course with a minimum grade of C and a B program GPA.
7. Submit an application to the Center for Alcohol and Addition Studies, upon completion of the requirements, for a review of credentials and awarding of certificate.

COLLEGE OF ARTS AND SCIENCES

BIOLOGICAL SCIENCES

INTRODUCTION

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 UAA graduate application form.
5. Official transcripts of all college-level work.
6. Graduate Record Examination scores (General GRE scores and Biology, Biochemistry or Chemistry Advanced GRE scores).
7. Three letters of recommendation.
8. A brief statement of applicant's research and career goals.

Acceptance is determined by the Biological Sciences Graduate Committee (BSGC) and is based on

1. prospective student's overall credentials;
2. availability of appropriate faculty for student research interests.

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

GRADUATION REQUIREMENTS

See general university requirements for master's degree.

PROGRAM REQUIREMENTS

1. Students working toward an MS degree in Biological Sciences must fulfill the following minimum credit requirements:

600-level	Science Credits	No less than 9
BIOL A692	Graduate Seminar (1)	2
BIOL A698	Research and Thesis (1-6)	No more than 12

   A minimum of 21 graduate (600-level) credits is required for the MS degree. Additional upper division (400-level) credits must be approved by 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 or adjunct faculty members. Committee chair will be the student's research advisor if a full-time UAA faculty member, or if the advisor is an affiliate faculty member, the chair will be shared with a full-time UAA faculty member The BSGC must be informed and approve of the membership of each student's GSC by the end of the first semester of graduate work.
4. Each student must submit a Graduate Study Plan- Master of Science in Biological Sciences form to the BSGC for approval by the end of the first semester of graduate work. The above form must be approved by student's advisor and/or GSC before submission to BSGC.
5. All graduate students will present to the Biological Sciences faculty and graduate student body a comprehensive research proposal seminar during their second semester of graduate work, as well as a final research defense seminar during their final semester of graduate work (see 8).
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 his/her 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. All graduate students must pass a final thesis defense after completing research and thesis. The thesis defense is to be scheduled any time following final submission of the thesis and at least one month prior to graduation. Students will be expected to schedule a public seminar of their research, followed by a private meeting with their GSC for the oral thesis defense. An outside examiner is included.
9. A minimum of 30 credits is required for the degree.

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.

CLINICAL PSYCHOLOGY

INTRODUCTION

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 personality theories, psychological testing, research methods, clinical psychology, and behavior modification (at UAA specific qualifying courses are PSY A368, A420, A425, A445, and A473 respectively) is necessary. Although students may be conditionally admitted to the program without these course experiences, undergraduate course work in these areas must be taken to meet the prerequisite structure of specific graduate courses.
4. Submission of scores on the Graduate Record Examination (GRE) for both the general aptitude test and the Psychology Subject Test is mandatory. Applications without these scores are generally not considered. Successful applicants typically have GRE general aptitude scores on the quantitative and verbal subtests that sum to 1000 or more and scores on the Psychology Subject Test that exceed the 50th percentile. The Psychology Subject Test is waived for graduates who obtained a baccalaureate degree in Psychology within the last seven years with a psychology GPA of 3.00 or above.
5. Submission of a letter of intent describing the applicant's interest and purpose in studying psychology, and the reasons why an MS degree in Clinical Psychology at UAA is sought at this point in the applicant's professional development, is required of a complete application.
6. A minimum of two (preferably three) professional references must be submitted with all applications.
7. Documentation of academic, research, and practical experiences other than course work, vocational and professional experiences, special projects and activities, and recognitions or honors must be provided. The format for this documentation is flexible, but a vita is preferred.
8. Demonstration of professionalism, understanding of APA ethical guidelines, and appropriate professional ethical behavior is expected. Applicants should provide evidence of professional goals and aspirations that reflect understanding of the profession of psychology as it is governed by licensure and accreditation laws and as it relates to the UAA program in particular. Applicants should ask their professional referees to comment on these issues. Applicants may be requested to complete an interview with faculty to provide additional evidence of these skills and features.

Department approval for admission to graduate study is contingent upon the applicant's qualifications, interests, and available space.

Fully admitted status is prerequisite for:

a. registering for PSY A665 Psychotherapy Practicum
b. registering for PSY A670 Psychotherapy Internship
c. preference in T.A. and R.A. appointments
d. preference in registration for psychology classes

CANDIDACY REQUIREMENTS

See the beginning of this chapter for master's level candidacy requirements. Students are eligible to apply for advancement to candidacy when they have completed the following courses:

PSY A611 Ethics and Professional Practice
PSY A623 Psychotherapy Skills
PSY A633 Psychological Assessment
One course from the Specialty Track requirements list.

Candidacy status is a prerequisite to the following experiences:

PSY A670 Psychotherapy Internship
Participation in Comprehensive Exams
Receipt of academic credit for Thesis (PSY A699A, B, or C)

GRADUATION REQUIREMENTS

See the beginning of this chapter for master's level graduation requirements. A minimum grade of "B" or better is required of all course work applied to the degree. Strict compliance with APA Ethical Guidelines is required throughout participation in the degree program. Violations can result in immediate dismissal from the program.

PROGRAM REQUIREMENTS

1. Required core courses for all three tracks (28 Credits):

PSY A611	Ethics and Professional Practice	3
PSY A622	Psychopathology	3
PSY A623	Psychotherapy Skills	3
PSY A633	Psychological Assessment	3
PSY A639	Advanced Research Methods	3
PSY A654	Cultural Issues in Psychotherapy	3
PSY A665A	Psychotherapy Practicum: Psychological Assessment	1
PSY A665B	Psychotherapy Practicum: Psychological Services Center	3
PSY A670	Psychotherapy Internship (3-6)	6

Specialty Track Courses

A. Research Track

Required:

PSY A698	Individual Research (1-4)	3
PSY A699A	Thesis: Research (1-6)	6
PSY A685	Quantitative Methods in Psychology (3)	
Select two of the following three:		6
PSY A624	Group Therapy (3)	
PSY A626	Family Therapy (3)	
PSY A645	Advanced Psychotherapy Skills (3)	
Electives		4

B. Clinical Track

Required:

PSY A624	Group Therapy	3
PSY A626	Family Therapy	3
PSY A645	Advanced Psychotherapy Skills	3
PSY A689	Advanced Psychological Assessment	3
PSY A699C	Thesis: Creative Component (1-6)	3
Select one of the following three:		3
PSY A631	Cognitive Behavior Therapy (3)	
PSY A635	Advanced Psychodynamic Theory and Therapy (3)	
PSY A638	Child-Clinical Psychology (3)	
Electives*		4

**Note: PSY A612 is recommended for licensure.*

C. Public Service Track

Required:

PSY A624	Group Therapy	3
PSY A631	Cognitive Behavior Therapy	3
PSY A637	Organizational Environments	3
PSY A699B	Thesis: Public Service	3
Select two of the following four:		6
PSY A626	Family Therapy (3)	
PSY A638	Child-Clinical Psychology (3)	
PSY A641	Applications of Community Psychology (3)	
PSY A645	Advanced Psychotherapy Skills (3)	
Electives		4

D. Addictive Behaviors Track

Required:

PSY A643	AIDS and Substance Abuse Counseling	3
PSY A680	Advanced Issues in Addiction Studies (1-3)	3
PSY A682	Counseling for Addictive Behaviors	3
PSY A688	Assessment and Treatment Planning for Addictive Behaviors	3
PSY A699C	Thesis Creative Component (1-6)	3
Select one of the following three:		3
PSY A626	Family Therapy (3)	
PSY A625	Group Therapy (3)	
PSY A641	Applications of Community Psychology (3)	
Electives		4

2. Electives:
   Any 600-level course not required by the student's chosen track may be chosen as an elective. Any 400-level course offered by the department may serve as an elective with a maximum of 6 elective credits at the 400-level as approved by the student's advisor. 400-level courses may not be applied to both a baccalaureate and a masters degree.
3. Thesis and Creative Component:
   Only students in the research track have to choose a traditional empirical thesis project. Students in the public service track will conduct a thesis of a slightly lesser work involvement than the research track thesis. Students in the clinical track will complete a Creative Component 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. Comprehensive Exam:
   All tracks require the student to pass two Comprehensive Exams. The first is a Research Comprehensive Exam and the second is a Clinical Comprehensive Exam.
5. A total of 50 credits is required for the degree.

COMPUTER SCIENCE

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 http://saturn.math.uaa.alaska.edu/mathsci.

CREATIVE WRITING AND LITERARY ARTS

INTRODUCTION

The Department of Creative Writing and Literary Arts offers a 45-credit Master of Fine Arts degree in Creative Writing and Literary Arts. The MFA is a professional degree which prepares students for various careers including those involving professional writing, teaching and editing. The MFA degree in Creative Writing and Literary Arts is generally a three-year degree, although some students may complete the requirements in a longer or shorter amount of time.

In their program of study in the Department of Creative Writing and Literary Arts, students can take courses in four areas: creative nonfiction, fiction, poetry, and drama for stage and screen. The emphasis of courses in this department is balanced between the study and practice of craft and the study of form, and theory as it relates to style and content. Workshop courses under the CWLA prefix are "working" courses where students produce original works of literature and engage in productive critique of each other's writing.

MASTER OF FINE ARTS, CREATIVE WRITING AND LITERARY ARTS

ADMISSION REQUIREMENTS

See the beginning of this chapter for graduate admission requirements and deadlines.

In addition, at the time of application, students must submit the following to the Department of Creative Writing and Literary Arts:

1. A manuscript sample (approximately 20 pages of fiction or creative nonfiction or 10 poems).
2. Two letters of recommendation that address academic preparation and creative writing ability.
3. A letter of application which addresses the student's range of writing experience and the reasons for applying to the Master of Fine Arts program.

All materials must be received by the Department of Creative Writing and Literary Arts by March 1 to be considered for assistantships, and by April 1 for fall admission.

Admission will depend upon the evaluation of the entire application packet, with emphasis placed on the manuscript sample.

GRADUATION REQUIREMENTS

See master's level graduation requirements at the beginning of this chapter.

PROGRAM REQUIREMENTS

1. Complete 15-21 credits from the following. Note that at least two areas must be studied:

CWLA A652	Graduate Writers' Workshop: Poetry (3)
CWLA A662	Graduate Writers' Workshop: Fiction (3)
CWLA A672	Graduate Writers' Workshop: Creative Nonfiction (3)
CWLA A682	Graduate Writers' Workshop: Drama for Stage and Screen (3)

2. Complete 6-12 credits of CWLA A690 Form and Theory. This is an umbrella course and may be repeated with changes in subtitle.
3. Complete 3-15 credits of approved electives in any department or discipline that complements the thesis project.
4. Complete 9 credits of Thesis Project — a book-length creative work.
5. Successful defense of the thesis.
6. A total of 45 credits is required for the degree.

ENGLISH

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. Admission will depend upon the evaluation of the entire application packet. The Admissions Committee reserves the right to make exceptions in any one of these categories. An applicant who does not meet all the criteria may be admitted on a conditional basis.

1. A score of 550+ on the Verbal GRE
2. A three-page application essay which addresses the student's background in English, reasons for applying to Master of Arts program and learning goals.
3. 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 essay.
4. Proof of a minimum GPA of 3.50 in all undergraduate English courses.

Contact the Department of English for the assistantship 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.

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:
   - ENGL A601 Introduction to Graduate Studies in English 3
   - ENGL A602 Contemporary Critical Theory 3
2. Complete 9 credits in period studies from the following: 9
   - ENGL A607 Studies in American Literature (3)
   - ENGL A615 Studies in Medieval Literature (3)
   - ENGL A620 Studies in Renaissance Literature (3)
   - ENGL A625 Studies in Neoclassical Literature (3)
   - ENGL A630 Studies in Literature of Romanticism (3)
   - ENGL A640 Studies in Victorian Period (3)
   - ENGL A642 Studies in the Modernist Period (3)
   - ENGL A643 Studies in Contemporary Literature (3)
3. Complete 6 credits in genre studies from the following: 6
   - ENGL A636 Studies in Modern Criticism (3)
   - ENGL A651 Studies in Poetry (3)
   - ENGL A661 Studies in Fiction (3)
   - ENGL A671 Study in Non-Fiction Prose (3)
   - ENGL A681 Studies in Drama (3)
4. Complete 3 credits in specialized studies from the following: 3
   - ENGL A604 Studies in Women's Literature (3)
   - ENGL A606 Studies in the Development of the English Language (3)
   - ENGL A637 Studies in Style and Stylistics (3)
   - ENGL A676 Studies in Texts and Cultures (3)
5. Complete at least 6 credits of ENGL A699 Thesis. Completion of the MA Thesis in English includes a thesis defense. 6
6. English electives (graduate or 400-level undergraduate) 6
7. A total of 36 credits is required for the degree.

RHETORIC EMPHASIS

1. Complete the following before advancing to candidacy:
   - ENGL A601 Introduction to Graduate Studies in English 3
   - ENGL A602 Contemporary Critical Theory 3
2. Complete 12 credits in Composition and Rhetoric: 12
   - ENGL A680 Studies in the History of Rhetoric (3)
   - ENGL A637 Studies in Style and Stylistics (3)
   - ENGL A685 Studies in Rhetorical Strategy (3)
   - ENGL A687 Composition Theory and Practice (3)
3. Complete 9 credits in specialized studies from the following: 9
   - ENGL A604 Studies in Women's Literature (3)
   - ENGL A606 Studies in the Development of the English Language (3)
   - ENGL A636 Studies in Modern Criticism (3)
   - ENGL A671 Studies in Non-Fiction Prose (3)
   - ENGL A676 Studies in Texts and Cultures (3)
4. Complete at least 6 credits of ENGL A699 Thesis. Completion of the MA thesis in English includes a thesis defense. 6
5. Complete one English elective at the graduate level 3
6. A total of 36 credits is required for the degree.

Note: Most of graduate courses are offered on a two-year rotation. Exceptions are Engl A601 and ENGL A687 (offered every fall semester) and ENGL A602 (offered every spring). A schedule of the planned rotation of graduate courses is available from the English office.

COLLEGE OF BUSINESS AND PUBLIC POLICY

BUSINESS ADMINISTRATION

INTRODUCTION

The College of Business and Public Policy offers the Master of Business Administration (MBA) degree with concentrations in general management and in accounting. 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 CONCENTRATION

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. The College of Business and Public Policy has entered into an agreement with Kyung Hee University in Seoul, Korea under which students may satisfy part of their MBA course requirements at either the University of Alaska Anchorage or at Kyung Hee University.

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 currently is no specific application deadline, but students should apply before the start of their first semester. In some cases students may be admitted conditionally while their paperwork is completed. Students in conditional admission status are restricted in the number of courses that they can take before being fully admitted.

GENERAL MANAGEMENT CONCENTRATION PROGRAM STRUCTURE

The requirements for the concentration consist of two parts, foundation courses and advanced courses, with program length varying from 36 to 54 credits, depending upon previous business studies.

Students without undergraduate business or accounting degrees will take up to seven foundation courses (18 credits) designed to provide a basic foundation for further graduate work. These foundation courses are:

ACCT A601	Accounting Foundations for Executives	3
BA A601	Business Statistics and Data Analysis	2
BA A603	Fundamentals of Finance	3
BA A604	Marketing Management	3
BA A606	Fundamentals of Production/ Operations Management	2
CIOS A605	Information Systems for Managers	2
ECON A602	Introduction to Economics for Managers	3

In some cases students may have fulfilled the core foundation requirements in part through undergraduate courses, or some students holding undergraduate business or accounting degrees may not have covered all of the foundation material in their degree program, or some of their foundation work may be dated in comparison to modern business practice. Thus foundation requirements will be evaluated on an individual student basis to 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 the General Management Concentration consists of nine core courses and three electives for a total of 36 credits of advanced course work:

ACCT A650	Seminar in Executive Uses of Accounting	3
BA A631	Business Environment Analysis	3
BA A632	Organizational Behavior and Human Resource Management	3
BA A633	Problem Formulation and Decision Analysis	3
BA A634	Creating the Successful Organization	3
BA A635	Current Marketing Issues Seminar	3
BA A636	Financial Decision Making	3
BA A655	Strategic Management Seminar	3
BA A656	Management Project	3
Three electives, all at the graduate (600) level		9

In certain cases, where warranted by previous education or experience, an MBA core course may be waived and an elective substituted. BA A656, Management Project, is required for every student, and the oral presentation of the project to the student's committee serves as the final comprehensive examination in the MBA program.

It is possible for full-time students to complete the 36 credits of 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 BUSINESS ADMINISTRATION ACCOUNTING CONCENTRATION

The Master of Business Administration with a concentration in accounting is designed to meet the statutory requirement of 150 hours of education for applicants sitting for the Certified Public Accountants (CPA) examination in Alaska and other states, and to fulfill the membership requirements for the American Institute of Certified Public Accountants (AICPA). The program will also prepare accountants from private industry and government for increasingly significant managerial roles in their organizations. The purpose of the program is to add both depth and breadth to an accounting professional's education. It is possible for students in the accounting concentration to complete the required 33 credits in one year.

ADMISSION REQUIREMENTS

Admission requirements are the same as those for the general management MBA listed above.

ACCOUNTING CONCENTRATION PROGRAM STRUCTURE

A minimum of 33 credits beyond the baccalaureate degree are required for the MBA Accounting Concentration degree. Additional credits may be required depending upon the nature of the baccalaureate degree.

Non-Accounting Business Baccalaureate Degrees

Students with non-accounting business baccalaureate degrees may be required to complete undergraduate accounting courses to prepare for graduate level accounting study. In the absence of equivalent courses ACCT A301, A302, A310, A316, A342, and A452 will be required.

Non-Business Non-Accounting Baccalaureate Degrees

Students with non-business, non-accounting baccalaureate degrees will be required to complete the above accounting courses along with a series of MBA foundation courses. Those foundation courses are:

ACCT A601	Accounting Foundations for Executives	3
BA A601	Business Statistics and Data Analysis	2
BA A603	Fundamentals of Finance	3
BA A604	Marketing Management	3
BA A606	Fundamentals of Production/Operations Management	2
CIOS A605	Information Systems for Managers	2
ECON A602	Introduction to Economics for Managers	3

MBA Accounting Concentration Advanced Core Courses (21 credits)

All students must complete the seven core courses listed below:

BA A631	Business Environment Analysis	3
BA A632	Organizational Behavior and Human Resource Management	3
BA A633	Problem Formulation and Decision Analysis	3
BA A635	Current Marketing Issues Seminar	3
BA A636	Financial Decision Making	3
BA A655	Strategic Management Seminar	3
ACCT A680	Accounting Research	3

MBA Accounting Concentration Electives (12 credits)

Students must select at least two of their elective courses from List A. Only one course from List B can be a non-accounting course.

List A:

ACCT A615	Tax Planning and Research	3
ACCT A620	Advances in Financial Accounting	3
ACCT A630	International Accounting	3
ACCT A652	Advanced Auditing Theory and Practice	3
ACCT A689	Legal Environment for Accountants	3
ACCT A690	Current Topics in Accounting	3

List B:

ACCT A401	Advanced Accounting I	3
ACCT A410	Corporate Taxes	3
ACCT A411	Estate and Trust Tax Law	3
ACCT A425	Accounting for Alaskan Industries	3
ACCT A430	Governmental and Not-For-Profit Accounting	3
ACCT A442	Advanced Cost Accounting and Controllership	3
ACCT A453	Internal Auditing	3
CIOS A614	Systems Theory and Analysis	3
CIOS A621	Seminar in Management Information Systems	3

Other graduate courses may be substituted for those in List B with MBA Program Director approval.

Courses from List B which were used to fulfill the requirements for a baccalaureate degree in accounting may not be used to fulfill the requirement for the MBA degree.

PUBLIC ADMINISTRATION

INTRODUCTION

The Master of Public Administration (MPA) degree provides students with knowledge and skills needed for professional careers in public service. MPA students learn new techniques and add to their expertise in organizational and program management, policy analysis, and related areas with emphasis on policy and administrative issues in the North. Students specialize in one of the following emphasis areas: Public Management, Policy Analysis, Health Administration, or Criminal Justice.

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

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

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

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

Upon approval of the student's advisor and dean, and by completing additional 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	Public Administration in the Contemporary Society	3
PADM A602	Seminar in Public Management	3
PADM A604	Research Methods in Administration	3
PADM A606	The Policymaking Process	3
PADM A628	Administration of Financial Resources	3

2. Complete one of the following emphasis areas:

A. Public Management Emphasis (15 credits):

PADM A603	Management Analysis	3
PADM A610	Organizational Theory and Behavior	3
PADM A624	Human Resources Administration	3
Plus two 600-level electives		6

B. Policy Analysis Emphasis (15 credits):

ECON A628	Applied Economics	3
PADM A632	Quantitative Approaches to Policy Analysis	3
PADM A635	Policy Analysis and 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 A658	Public Health Policy (3)	
NS A681	Analysis of Health Services (3)	
NS A682	Administrative Services (3)	

D. Criminal Justice Emphasis (15 credits):

JUST A625	Seminar in Criminal Violation	3
JUST A630	Justice Administration Theory and Practice	3
JUST A670	Administrative Law	3
Choose one of the following:		
JUST A640	Corrections Theory and Research	3
JUST A650	Policing Theory and Research	3

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	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	Administrative Policy Seminar	3

6. A total of 36-39 credits is required for the degree.

COLLEGE OF HEALTH, EDUCATION, AND SOCIAL WELFARE

SCHOOL OF EDUCATION

INTRODUCTION

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.

The Master of Arts in Teaching program course requirements are the same for all students. However, 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:

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

B. Counseling and Guidance

C. Educational Leadership
- K-12 Principal
- Superintendent

D. Special Education
- General Special Education
- Early Childhood Special Education

E. Adult Education (Selected Specializations)

F. Master of Arts in Teaching

GRADUATE CERTIFICATION AND ENDORSEMENT PROGRAMS

The School of Education recommends students for endorsement and/or certification to the 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); and the Master of Arts in Teaching. 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 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, non-professional 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 have been 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 have been received. Written notification of committee action will be 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 will be 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 his/her 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 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 working towards 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 18 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 his/her 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
Educational Technology
Curriculum and Instruction

Students may concentrate their studies in such areas as, elementary, secondary, literacy, reading specialist, etc.
Planned programs must include the following:

1. Core courses:

ED A621	Culture, Language and Literacy	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

2. Select a specialty option consisting of a minimum of 18 credits and see an academic advisor to plan specific course work.

B. Counseling and Guidance

The M.ED. in Counseling and Guidance is designed to serve baccalaureate graduates who have selected a career as a professional counselor. The program encompasses theory, research, and practice related to professional counseling in schools and agencies.

1. Core:

ED A612	Human Relations in Education	3
ED A627	Educational Research	3
ED A631	Advanced Educational Psychology	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

2. Choose one of four options:

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 the Secondary 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 the Secondary Counselor	3
COUN A634	Counseling Practicum I (Elementary Level)	3
COUN A636	Counseling Practicum II (Middle level or High School)	3
Electives by advisement		3

D. General Counseling (12 credits):

COUN A634	Counseling Practicum I (agency)	3
COUN A636	Counseling Practicum II (agency)	3
Electives by advisement		6

3. A total of 42-45 credits, depending on option, is required for the degree.

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 Masters degree in Counseling or related field and a minimum of 18 credits by special advisement.

Students seeking endorsement or certificate will need appropriate courses in exceptionalities and education of culturally different youth.

C. Educational Leadership
K-12 Principal's Certificate

Program Requirements:

1. At least three years of experience as certificated elementary or secondary teacher.
2. Eligible for Alaska Teaching Certificate.

1. Foundation Core:

ED A627	Education Research	3
ED A631	Advanced Educational Psychology	3
Electives by Advisement		6

2. Required Courses:

ED A637	Educational Leadership and Organizational Behavior	3
ED A638	Instructional and Curricular Leadership	3
ED A639	Social and Political Foundations of Education	3
ED A640	Law and Ethics in Education	3
ED A641	Principal Internship (3-6)	6
ED A642	Principal Seminar I	3
ED A643	Principal Seminar II	3

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

Superintendent's Endorsement-

Students wanting a superintendent's endorsement must have completed the above or a comparable principal preparation program, possess a master's degree, and be eligible for a principal's certificate. In addition, they must take the following or verify comparable course work:

ED A671	Superintendent Stewardship and Systemic Change	3
ED A672	Student Performance: Academic and Developmental	3
ED A673	Human Resource Management and Labor Relations	3
ED A674	Public School Finance and Facilities	3
ED A675	Internship: Superintendent	3-6
ED A676	Superintendent Seminar I	3
ED A677	Superintendent Seminar II	3

A minimum of 60 graduate credits is required for the superintendent's endorsement, including the principal preparation program.

D. Special Education

General Special Education*

1. Required Courses:

ED A627	Education Research	3
EDSE A640	Advanced Theories of Disabilities	3
EDSE A671	Social Issues on Education	3
EDSE A672	Current Trends in Special Education	3
EDSE A698	Individual Research (1-6)	6
	or	
EDSE A699	Thesis (1-6)	
	Electives by advisement	18

2. 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.

**Endorsement requirements for existing teaching certificates may be completed in conjunction with the Master of Education degree as a separate program. Consult with the School of Education.*

Early Childhood Special Education with Endorsement*

1. Required Courses:

EDSE A474	Special Education from Birth through Five	3
EDSE A610Y	Assessment: Early Childhood Special Education	3
EDSE A620Y	Advanced Internship: Early Childhood Special Education	6
EDSE A622Y	Strategies: Early Childhood Special Education	3
ED A627	Education Research	3
EDSE A674	Families	3
EDSE A681	Issues in Early Childhood Special Education	3
EDSE A685	Complex Needs	3
Electives by advisement		9

2. 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.*

E. Adult Education**

The M.Ed. in Adult Education program is designed to serve baccalaureate graduates who have selected a career as a reflective practitioner, 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 relating to adult learners, adult educators, leadership and adult education processes, providers and programs.

***This program has special admission requirements. Contact School of Education for further information.*

1. These core courses are required in the adult education program (12 - 15 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
PSY A675	Adult Development and Aging (recommended)	3

2. Complete one of three options:

A. Distance Learning and Technology

ED A629	Multimedia Tools for Learning (3)	3
	or	
ED A626	Technology in Teaching and Learning (3)	
EDAE A667	Distance Learning and 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)	
Electives by advisement		3-11

B. Human Resource Development and Leadership

EDAE A650	Principles of Human Resource Development	3
EDAE A657	Leadership (3)	3
	or	
EDAE A658	Organization and Administration of Adult Education (3)	
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)	
Electives by advisement		3-11

C. 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)	
Electives by advisement		3-11

3. In lieu of a comprehensive examination, students in the MEd in Adult Education program will prepare a portfolio throughout their study process to verify their knowledge and skill in each of the adult education excellencies specified in their program. At the conclusion of their master's work, students will present their portfolios to their committee members.

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

MASTER OF EDUCATION
MASTER TEACHER-EDUCATIONAL TECHNOLOGY

PROGRAM REQUIREMENTS

Required courses:

ED A626	Technology in Teaching and Learning	3
ED A652	Ed Telecommunications and the Internet	3
ED A629	Multimedia Tools for Teachers	3
ED A655	Implementing the Standards: Integrating Educational Technology into the Curriculum	3

Technology Electives: 6
(by committee advisement and competency development needs)

Approved options:
one "social issues" course recommended

EDAE A677	Distance Education
JPC A416	Information Age Communication
JPC A490K	Web Page Design on the Internet
CIOS A421	Multimedia Authoring
CIOS A422	Web Site Design and Development
ED A625L	Instructional Media Production
ED A673	Educational Networking

Electives from University of Alaska Southeast

ED A673	Educational Networking
ED A670	Educational Technology Planning
ED A672	Social Impacts of Technology

Endorsement Option: 3

ED A657	Educational Technology Portfolio Development and Assessment

Master Teacher with Specialty Options M.Ed. Foundation Core: 18

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 (3)

MASTER OF ARTS IN TEACHING, EDUCATION

The Master of Arts in Teaching degree (M.A.T.) is an intense, integrated program of course work and practica that prepares teachers to work and learn with secondary students in a wide variety of educational settings. This program assists students in their development as professional educators who are committed to a life of reflective practice; to roles as models of moral, ethical and caring citizens; and to positions as leaders in their communities.

Approved teaching endorsement areas for the M.A.T. are:

Art	English as a Second Language
General Science	English
Biology	Mathematics
Geology	Music
Chemistry	Social Studies
History	Language

Note: Teaching endorsements must be completed in accordance with the approved teaching major checklist on file at the School of Education.

ADMISSION REQUIREMENTS

See the beginning of this chapter for admission to graduate programs.

Students applying for the Master of Arts in Teaching must also meet these requirements:

1. Baccalaureate degree with a GPA of 3.00.
2. Combined score of 800 on the verbal and quantitative sections of GRE exam, or a passing score on the Miller's Analogy Test.
3. Three letters of recommendation.
4. Interview with Secondary Education faculty. The interview process includes an on-site writing sample.
5. A completed approved teaching major with passing NTE scores, or the appropriate NTE exam at the 80% or above.
6. Documented positive experience with adolescents preferred.

ADDING ENDORSEMENTS

Individuals wishing to add endorsements to their Type A Secondary teaching certificate must:

1. Complete the approved teaching major requirements with a 2.5 GPA or place in the 80 percentile on the appropriate NTE exam. (No grade below a "C" may be used to fill a certification requirement).
2. Receive a passing score on the appropriate NTE or other require competency exam.
3. Receive a grade of "B" or better in the appropriate methods courses.
4. Student teach in an advanced practicum.

Note: Additional course work may be required by the academic advisor based on the appropriateness and recency of the individual's course work.

CERTIFICATION ONLY

On a space available basis, students not meeting graduate requirements, but having a 2.5 GPA and an approved teaching major with passing NTE scores, may be accepted into the program as certification only. Certification Only students do not complete the research or the comprehensive exam requirements of the degree program.

CANDIDACY REQUIREMENTS

See the beginning of this chapter for advancement to candidacy requirements.

PROGRAM REQUIREMENTS

1. Required Courses:

ED A626	Technology in Teaching and Learning	3
ED A627	Education Research	3
EDSE A671	The Impact of Social Issues on Education	3
ED A681	Neurological Foundations: Development and Learning	3
ED A682	Curriculum Development Processes	3
ED A683	Methods for Secondary Education	3
ED A687	Advanced Practicum: Education (1-12)	6
ED A688	Student Teaching in Secondary	12

2. A written comprehensive examination over both the professional studies and the area of endorsement must be completed by the candidate prior to graduation. The written competency examination may be taken either before or after completion of the final phase of ED A687, Advanced Practicum: Education.
3. For certification purposes, the State of Alaska requires the successful completion of an approved course in Alaska Studies. Contact the School of Education for additional information.
4. A total of 36 credits is required for the degree

SCHOOL OF NURSING

INTRODUCTION

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. 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, after additional post-master's clinical practice and supervision, to write the national certification examination for advanced practice as a clinical specialist in psychiatric-mental health nursing.

MASTER OF SCIENCE, NURSING SCIENCE

ADMISSION REQUIREMENTS

See the beginning of this chapter for graduate admission requirements and deadlines.

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 which 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 will need to 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 (19 credits):

NS A620	Nursing Research Methods	4
NS A621	Nursing Theory	3
NS A625/A625L	Biostatistics for Health Professionals/Lab	3/1
NS A642	Professional Nursing in Perspective	3
NS A699	Thesis (2-3)	5

2. Complete one of the following options (22-25 credits):

A. Family Nurse Practitioner Option (25 credits):

NS A610	Pharmacology for Primary Care	3
NS A622	Family Theory for Advanced Nursing Practice	3
NS A660	Family Nurse Practitioner I	4
NS A661	Family Nurse Practitioner II	4
NS A662	Family Nurse Practitioner III	5
NS A663	Family Nurse Practitioner, Clinical Concentration	3
Elective		3

B. Psychiatric-Mental Health Nursing Option (22 credits):

NS A622	Family Theory for Advanced Nursing Practice	3
NS A670	Advanced Psychiatric/ Mental Health Nursing I	3
NS A671	Advanced Psychiatric/ Mental Health Nursing II	3
NS A672	Advanced Psychiatric/ Mental Health Nursing III (3/6)	6
NS A674	Topics in Advanced Psychiatric/ Mental Health Nursing	4
Elective		3

C. Community 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 A658	Public Health Policy	3
NS A656	Grant Writing	1
Electives		6

D. Health Care Administration Option (22-23 credits):

NS/HS A658	Public Health Policy	3
NS A681	Analysis of Health Services	3
NS A682	Administrative Services	3
NS A682L	Administrative Services Fieldwork (Optional)	1
NS A695	Practicum in Health Care Administration	4
Choose either set of nine credits from the following:		9
PADM A610	Organizational Theory and Behavior(3)	
PADM A624	Human Resources Administration (3)	
Elective, Advisor approved(3)		
	or	
BA A632	Organizational Behavior and Human Resource Management(3)	
Electives, Advisor approved (6)		

3. A total of 41-44 credits is required for the degree.

CANDIDACY

The student is eligible for advancement to candidacy after demonstration of ability to succeed in graduate study through approval of the thesis proposal by the student's thesis committee and the UAA Institutional Review Board (IRB).

THESIS CREDITS

A total of 5 credits of thesis is required for the degree. Students who are unable to complete the thesis while registered for 5 credits may be given a DF (deferred) grade for one semester; those students will be required to complete the Graduate Continuous Registration procedures (at the beginning of this chapter) and pay all fees. Students who are unable to complete the thesis during these three semesters will be required to register for 2 credits of NS A699 Thesis every semester thereafter (excluding summer sessions) until the thesis is satisfactorily completed. There is no limit to the number of thesis credits that may be accrued; however, no more than 13 credits of thesis may be accrued without the student being required to take additional course work at the graduate-level. Specific requirements for additional course work will be determined by the Director of the Graduate Program in Nursing and the Thesis Chair.

PART-TIME/FULL-TIME STUDY

Options are available for full-time and part-time study. Prior to being formally admitted to graduate study, students may complete up to nine credits of degree applicable course work, either UAA credit (with permission of the instructor) or transfer credit.

For part-time students, admission to Graduate Study only is recommended, with formal admission to a specialty track being delayed until core course requirements have been completed. Enrollment in any clinical course requires formal admission to graduate study and to the specialty track.

ADDITIONAL REQUIREMENTS

All students enrolled in UAA nursing programs must provide documentation of continuous current certification in Cardiopulmonary Resuscitation (CPR) for adults, infants, and children; continuous professional malpractice insurance in amounts of $1 million/$3 million, and evidence of satisfactory health status, including immunity to chicken pox, rubella, rubeola, and hepatitis B, documentation of diphtheria/tetanus immunization within the past 10 years, annual skin test or health exam indicating freedom from active tuberculosis, and documentation of an HIV test.

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.

SOCIAL WORK

INTRODUCTION

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, 1995 the MSW Program was granted Candidacy Status by the Council on Social Work Education (CSWE) Commission on Accreditation. The program is working with the CSWE Commission to establish compliance with accreditation standards by 1998. Once full accreditation has been awarded, it will be retroactive to the beginning of the candidacy period.

The MSW degree is structured to allow students to participate in a one or two year full-time program, dependent upon prior academic preparation for graduate studies in social work. The foundation year 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 year 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 Year must first complete SWK 592, a preparatory four-day Social Work Summer Intensive. The concentration year 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 UAA graduate application for admission with fee and meet requirements found on the beginning of this chapter.
3. Submit complete undergraduate transcripts.
4. Submit the MSW Admissions Packet available through the Social Work Department, which will include three (3) letters of reference from employers, supervisors or academic faculty 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 bio-psycho-social determinants of human behavior. The applied statistics course provides exposure to objective knowledge development. A minimum grade of "C" is required for each of the prerequisite courses.

ACADEMIC PROGRESS

To maintain satisfactory progress toward the degree, a student in the MSW program is expected to hold full-time student status as described above, achieve a GPA of "3.00" or better on a "4.00" scale, with no individual course grade lower then 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.

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 Social Work Department.
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 Masters 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

1. Foundation Year: 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 A624	Social Work Research	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

Spring - Year One

SWK A607	Contemporary Social Welfare Policy and Change	3
SWK A632A	Social Work Practice II	3
SWK A632B	Generalist Practicum II	3
SWK A643	Human Diversity in Social Work Practice	3
Graduate-level Social Work elective.*		3

2. Concentration Year:

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 (may be taken in the fall semester)	3
SWK A634B	Advanced Generalist Practicum IV	4
SWK A635	Advanced Generalist Integrative Seminar	3
SWK A698	Individual Research Project	3
Graduate-level Social Work elective.*		3

3. A minimum of 32 credits is required for the two year Master of Social Work Degree.

** A total of 6 credits of electives to pursue professional emphasis may be selected from outside the Department of Social Work offerings. Contact the Department 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.

COMMUNITY AND TECHNICAL COLLEGE

VOCATIONAL EDUCATION

INTRODUCTION

The Vocational Education program at UAA exists to provide graduate instruction for educators specializing in vocational education at the secondary and postsecondary level, vocational administrators, and industry trainers. Department faculty and administrative offices are located at UAA in the Community and Technical College, but instruction is delivered across the State through the use of video- and audio-conferencing, the University of Alaska Computer Network, and traveling instructional faculty who deliver on-site instruction. To meet the needs of distance education students a portion of the degree program offers the option of completing Performance Based Teacher Education (PBTE) modules. These are competency-based instructional modules on a variety of vocational related topics. Each student's program is jointly designed by the student and a faculty advisor.

MASTER OF SCIENCE, VOCATIONAL EDUCATION

ADMISSION REQUIREMENTS

See the beginning of this chapter for graduate admission requirements and deadlines.

GRADUATION REQUIREMENTS

1. See the beginning of this chapter for general university requirements for graduate degrees and master's level graduation requirements.
2. An official program developed jointly between the student and faculty advisor must be approved before completion of 12 credits of course work.
3. Only 9 credits may be at the 400-level.
4. Completion of a minimum of 36 credits of approved course work in the program.
5. Successfully complete VE A698: Individual Research (project or thesis) with committee approval.
6. Once the final project or thesis is approved, students must enroll in at least 3 credits of VE A698, Individual Research, and maintain a continuous enrollment of 1 credit 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 may be used in partial fulfillment of this requirement. 12
4. A total of 36 credits is required for the degree.

SCHOOL OF ENGINEERING

INTRODUCTION

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

INTRODUCTION

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.

CIVIL ENGINEERING

INTRODUCTION

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).

MASTER OF CIVIL ENGINEERING

ADMISSION REQUIREMENTS

See the beginning of this chapter for admission to graduate programs. All students must hold a baccalaureate degree in an engineering discipline.

GRADUATION REQUIREMENTS

See the beginning of this chapter for General University Requirements for graduate degrees.

PROGRAM REQUIREMENTS

Complete 30 credits of course work beyond the Bachelor of Science degree. This shall include 3 credits of a civil engineering project (CE A686). All course work must be approved by the student's graduate committee.

ENGINEERING MANAGEMENT AND SCIENCE MANAGEMENT

INTRODUCTION

The Engineering Management and Science Management curriculum is designed for graduate engineers and scientists who will hold executive or managerial positions in engineering, construction, industrial, or governmental organizations. It includes human relations, financial, economic, quantitative, technical, and legal subjects useful in solving problems of management.

MASTER OF SCIENCE, ENGINEERING MANAGEMENT

MASTER OF SCIENCE, SCIENCE MANAGEMENT

ADMISSION REQUIREMENTS

Students who are working toward the Master of Science in Engineering Management must hold a Bachelor of Science or Master of Science in an engineering discipline. Students enrolling in the Master of Science in Science Management must hold a Bachelor of Science or Master of Science in a scientific field. Students are expected to be proficient in the use of computers for word processing, spreadsheet analysis, and scientific calculations. A candidate should have had on-the-job experience in engineering or science.

Students must formally apply for admission to the program. No more than 9 semester credits may be taken before applying for admission.

GRADUATION REQUIREMENTS

Students must earn a 3.00 GPA in graduate courses that are part of the program. No course included in the credits of a students program may be counted toward another degree. A student may not repeat a course that is part of his/her program if he/she has received a C or better in that course.

Students who have not successfully completed an engineering economy course as undergraduates or in other graduate work must include either ESM A605 or ESM A606 in their academic programs.

PROGRAM REQUIREMENTS

Note: Substitutions for one or more of the courses listed below may be permitted if similar courses are included in the student's previous academic background. No more then 9 semester credits of appropriate graduate-level course work completed at other institutions with a grade of "A" or "B" may be transferred and applied toward the total 30 credits of required and elective courses. Both substitutions and transfer of credit must be approved by the department.

1. Complete the following Area requirements (21 credits):

A. Management Area (9 credits minimum):

ESM A601 Engineers in Organizations 3

Choose one course from the following: 3
- ESM A609 Project Management (3)
- ESM/BA A617 Technology Management (3)

Choose one course from the following: 3
- ESM A608 Legal Environment for Engineering Management (3)
- ESM A609 Project Management (3)
- ESM A613 Management of Technical People (3)
- ESM/BA A617 Technology Management (3)
- ESM/BA A623 Total Quality Management (3)
- ESM/BA A625 Marketing of Business Products and Services (3)

B. Fiscal Area (6 credits minimum):

Complete two of the following courses: 6
- ESM A605 Engineering Economy (3)
- ESM A606 Advanced Engineering Economy (3)
- ESM A610 Cost Estimating (3)
- ESM A611 Cost and Managerial Accounting (3)

C. Quantitative Area (6 credits minimum):

Choose one course from the following: 3
- ESM A620 Statistics for ESM (3)
- ESM A621 Operations Research (3)

Choose one course from the following: 3
- ESM/BA A619 Computer Simulation of Systems (3)
- ESM A620 Statistics for ESM (3)
- ESM A621 Operations Research (3)
- ESM A622 Management Decisions Under Uncertainty (3)

2. To register for ESM A684 or ESM A699 students must have a 3.0 GPA or better in courses listed on their academic program plans:
   - A. Non-Thesis Option. Complete ESM A684 and 6 credits of electives in the student's technical specialty and/or additional courses in A, B, or C above. Electives must have the approval of the department and may include advanced courses in computer science.
   - B. Thesis Option. Complete 6-9 credits of ESM A699 and 0-3 credits of electives in the student's technical specialty and/or additional courses in A, B or C above. Electives must have the approval of the department and may include advanced courses in computer science.
3. A total of 30 credits is required for the degree.

Questions:

School of Engineering
University of Alaska Anchorage
3211 Providence Drive
Anchorage, Ak 99508
(907) 786-1079

Jang W. Ra, Ph.D
907-786-1862
Herbert F. Schroeder, Ph.D.
907-786-1860

ENVIRONMENTAL QUALITY ENGINEERING AND ENVIRONMENTAL QUALITY SCIENCE

INTRODUCTION

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	EQS Measurements	3
EQE A602	Water Quality Management	3
EQE A603	Solid Waste Management (3)	3
	or	
EQE A609	Measure and Control of Air Pollution (3)	
EQE A604	Environmental Quality Evaluation	3
EQE A605	Chemical and Physical Water and Wastewater Treatment Processes	3
EQE A606	Biological Treatment Processes	3

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. 12

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.

CHAPTER 11

COURSE DESCRIPTIONS

Alternative Learning Options
Contact Hours
Course Level Expectations
Course Numbering System
General Education Requirements
Prerequisites
Course Descriptions

ALTERNATIVE LEARNING OPTIONS

FLEXIBLE TIME COURSES

Certain courses are offered in flexible formats. They include:

1. Self-Paced. These courses offer an alternative to the traditional lecture class and are especially suited to motivated, self-directed learners. Self-paced courses allow students to work in a low-anxiety, supportive environment. They include some or all of the following:
   a. group study
   b. tutorial study
   c. scheduled lectures
   d. diverse learning aids such as video, audio, computer, and library resources.
2. Open Entry/Open Exit. These courses permit students to enter and exit anytime during the semester. Students generally work at their own pace to complete the required course content.
3. Variable Credit. These courses may be taken for a variable number of credits with prior approval of the faculty member. Workload and tuition depend on the number of credits selected.
4. Short. Short courses offer the content of a full semester course in a shorter timeframe.
5. Mini. Mini-courses are offered for fewer than 3 credits and usually in a shorter time period than a full semester.

DIRECTED STUDY

A Directed Study course is a permanent catalog course delivered on an individual basis when the course is not offered that semester. It provides the opportunity for the student to take a permanent course on an individual basis when the course is not being offered that semester. For additional information, refer to the Directed Study policy located in chapter 8.

INDEPENDENT STUDY

An Independent Study course is a course consisting of topics or problems chosen by the student with the approval of the department concerned, with the supervision of an instructor, and final approval by the dean. These courses are not duplications of and must differ significantly from the catalog course. It provides the opportunity for the student who has completed most of the required courses in their program to study topics which are not offered. For additional information, refer to the Independent Study policy located in
Chapter 8.

INTERDISCIPLINARY/MULTIDISCIPLINARY COURSES

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

STACKED COURSES

Occasionally two or more courses are scheduled in the same classroom at the same time. These are referred to as "stacked courses." Catalog descriptions of these courses include the statement "Stacked with." The semester class schedule will indicate if a class is being offered in stacked format and list which course(s) are being stacked.

TELECOURSES

UAA telecourses are college-level credit courses offered in televised format. Courses can be viewed on Channel 7/KAKM (Anchorage PBS), on Channel 42/Anchorage TeleCampus (Prime Cable of Alaska), or by videotape on campus.

Telecourses are organized learning systems which include video lessons, a textbook, a study-guide, learning exercises, and organized exams. Most coursework can be completed in the convenience of a student's home. Students come to campus only for orientation, discussion/lab sessions, and examinations. Students can communicate with telecourse faculty and other class members via telephone, office appointments, computer, or mail.

Telecourses are listed in each semester Class Schedule. Tuition is charged at the current UAA per-credit rate. There is a Distance Fee for each telecourse. Students follow regular UAA registration procedures for telecourses.

CONTACT HOURS

UAA academic policy has established the following minimum contact times. Most lecture/discussion courses require a minimum of 750 minutes of contact time and a minimum of 1500 minutes completed outside the classroom to award 1 credit. Some courses require more than 750 minutes of contact time and more than 1500 minutes completed outside the classroom.

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

Courses scheduled for less than a full semester may not be offered for more than 1 credit each week.

One Continuing Education Unit (CEU) may be granted for satisfactory completion of 10 contact hours of classroom instruction or for 20 contact hours of laboratory or clinical instruction.

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

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

COURSE LEVEL EXPECTATIONS

Students are expected to demonstrate learning skills commensurate with the appropriate course level.

Students are expected to meet prerequisites for all courses prior to registering. Prerequisites are listed with course descriptions. Prerequisites indicate the preparation and/or background necessary to undertake academic study. If a student has not taken and passed the necessary prerequisites, but feels confident of performing the course work, the student may request permission from the instructor of the course to enroll in the class. An instructor withdrawal may be initiated for those students who enroll without either prerequisites or instructor permission.

EXPECTATIONS FOR ACADEMIC UNDERGRADUATE COURSE LEVELS

Because of the differences in organization and content of the various disciplines and professions, there is no uniform, reasonable way of numbering courses that would be equally useful in all fields of knowledge.

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

The following level definitions list the types of courses that can be expected at a given level and give an idea of the academic expectations of those courses:

PREPARATORY COURSES

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. 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.

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, internships, and cooperative education courses
-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 Communications
Written Communications
Quantitative Skills
Humanities
Fine Arts
Social Sciences
Natural Sciences

PREREQUISITES

Prerequisites, as they are listed in the course description area may be a) courses, b) registration restrictions, c) class standing restrictions, or d) level restrictions. Any prerequisite can be waived with faculty permission. A signature must be obtained on the proper registration form prior to registration.

ACCOUNTING - ACCT

http://www.scob.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 or upper-division ECON 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 in the schedule. 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 he/she provides to a small business. Includes basic accounting and bookkeeping practices in reconciliation of bank accounts, payroll, payroll taxes, application for federal identification numbers, state ESC numbers, business licenses, quarterly and annual reports, accounts receivable, depreciation, inventory, financial statements and income taxes.

ACCT A060 Personal Tax Preparation 2 CR
Contact Hours: 2 + 0
Special Note: Does not satisfy any degree requirements even as an elective.
A review of significant tax information for intelligent preparation of one's own tax return. Includes an overview of the latest legislation, tax forms, and practical exercises in figuring personal tax returns.

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.
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.
Second semester principles of accounting. Includes long-term debts and investments, analysis and preparation of cash flow statement.

ACCT A120 Bookkeeping for Business I 3 CR
Contact Hours: 3 + 0
Special Note: May be offered as either classroom or open-entry, individualized course.
Basic concepts and procedures of practical bookkeeping. Fundamental principles and practices necessary to record and report financial data in a service and merchandising business for manual systems and computerized systems.

ACCT A121 Bookkeeping for Business II 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A120.
Special Note: May be offered as either classroom or open-entry, individualized course.
Second semester college bookkeeping. Introduces bookkeeping concepts and procedures for the financial accounting for corporations with a general coverage of payroll accounting, special journals, voucher system, petty cash system, inventory bookkeeping procedures, uncollectible accounts receivable, plant assets and depreciation, notes and interest, and accrued items. Coverage of financial bookkeeping as related to the merchandising firm is used as an environment for bookkeeping topics.

ACCT A201 Principles of Financial Accounting 3 CR
Contact Hours: 3 + 0
Registration Restrictions: MATH A105 or equivalent Math Placement Test.
Special Note: ACCT A101 and ACCT A102 will satisfy requirement for ACCT A201. AAS accounting majors must take ACCT A101 and ACCT A102.
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.
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.
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.
Identifies necessary accounting controls in a computerized environment; illustrates conversion of manual to computerized accounting system; demonstrates processing of accounting data on a computer.

ACCT A225 Accounting for Payroll, Receivables and Payables 3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCT A101 and ACCT A102] or ACCT A201 and CIOS A110.
Special Fees.
Considers in detail, special accounting problems associated with processing and reporting on payroll, receivables and payables cycles. Covers manual and computerized applications.

ACCT A230 Financial Statement Preparation and Presentation 3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCT A101 and ACCT A102] or ACCT A201.
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.
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.
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.
The federal income tax law as it applies to individuals, sole proprietors, 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.
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.
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.
A study of accounting for expanded business entities. Includes accounting of joint ventures, partnerships, branches and parent-subsidiary consolidated statements.

ACCT A402 Advanced Accounting II 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A302.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Selected topics to include the accounting for fiduciaries, franchises, real estate developments, pensions, deferred taxes, bankruptcies, earnings per share and complex inventory valuation methods.

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.
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.
The study of transfer and income taxes involved with estate and trusts. Emphasizes research and tax planning.

ACCT A425 Accounting for Alaskan Industries 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A301 and ACCT A342.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Accounting issues dealing with basic Alaskan industries such as construction, regulated activities and petroleum.

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.
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 A442 Advanced Cost Accounting and Controllership 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A342.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Emphasis on accounting data for internal management decisions. Covers cost analysis for investment decisions, cost allocation processes, transfer pricing, and performance measures for decentralizing organizations. Includes contemporary cost accounting issues.

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.
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.
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 A462 Contemporary Accounting Problems 6 CR
Contact Hours: 6 + 0
Prerequisites: ACCT A452.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Covers accounting, statistical, and ethical topics either not covered or covered superficially in the program requirements leading to the BBA-Accounting degree. Develops the additional proficiency necessary to meet entry level requirements for a career as a public accountant.

ACCT A601 Accounting Foundations for Executives 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
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 A630 International Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A202 or ACCT A601.
A study of the international dimensions of accounting. Topics include comparative financial accounting practices, the international standard setting structure, the analysis of foreign financial statements and international managerial accounting issues.

ACCT A650 Seminar in Executive Uses of Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A601.
Registration Restrictions: Graduate Standing.
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 A680 Accounting Research 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A302.
Registration Restrictions: At or near completion of the masters degree and graduate standing.
Examination of accounting research design and methods and its contributions to standard setting and practice. Includes semester-length research project resulting in a paper, presentation, and oral examination.

ACCT A690 Current Topics in Accounting 3 CR
Contact Hours: 3 + 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 accounting.

AUTOMOTIVE & DIESEL TECHNOLOGY - ADT

Offered through the Community & Technical College
Auto & Diesel Technology Building (ADT), Room 207, 786-1461

ADT A071 Fundamentals of Diesel Engines 2 CR
Contact Hours: 2 + 0
Offered only at Kodiak College.
Survey of different types, uses, operating conditions, and maintenance of diesel engines.

ADT A081 Small Engine Repair 3 CR
Contact Hours: 2 + 3
Special Note: Students usually supply own project engines and tools.
Diagnose problems and make repairs.

ADT A102 Auto Basics and Careers 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Formal acceptance as ADT major.
Special Fees.
Provides information about careers in automotive and diesel industry. Instruction in shop safety, right to know, and MSDS, hand tools, fasteners and fittings, LOF service, cooling systems, wheel bearing service, drive shaft service, and precision measuring devices.

ADT A105 Beginning Diesel Engines 3 CR
Contact Hours: 2 + 2
Fundamentals of basic diesel operation. Includes troubleshooting and preventive maintenance.

ADT A111 Power Trains I 3 CR
Contact Hours: 2 + 2
Prerequisites: (ADT A102 or concurrent enrollment).
Special Fees.
Teaches theory, diagnosis and repair of automotive power train systems to include clutches, drive lines and all wheel drive systems.

ADT A112 Outboard Motors/Rigging 2 CR
Contact Hours: 1 + 1
Offered only at Matanuska-Susitna College.
Introduces outboard motors and boat rigging. Covers motor installation, propellers, boat design, and troubleshooting and repair of outboard motors. Includes the use of special tools related to boats and motors.

ADT A114 Power Trains II 3 CR
Contact Hours: 2 + 2
Prerequisites: ADT A111.
Special Fees.
Theory, diagnosis, and repair of automotive power train systems to include manual transmissions, transaxles, drive axles, and differentials.

ADT A115 Automotive Technology—Asset I 13 CR
Contact Hours: 8 + 12
Registration Restrictions: Formal acceptance into the UAA/Ford ASSET program.
Special Fees.
Special Note: Includes 280 hours of on-the-job training.
Provides the asset student with the prerequisite knowledge necessary to function effectively in the dealership environment and perform service related to predelivery, minor "Quick service" maintenance, and electrical charging systems.

ADT A121 Auto Electrical I 3 CR
Contact Hours: 2 + 2
Prerequisites: (ADT A102 or concurrent enrollment).
Special Fees.
History and origins of electrical theory through the generation of electricity. Diagnose, minor repair, and general service of alternators, starters, and batteries.

ADT A130 Basic Auto Engines 3 CR
Contact Hours: 2 + 2
Prerequisites: ADT A102.
Special Fees.
Theory of operation of major systems, partial disassembly and reassembly of a wide variety of modern automotive engine types. Focuses on engine system relationship and valve service. Not an engine overhaul course.

ADT A131 Auto Electrical II 3 CR
Contact Hours: 2 + 2
Prerequisites: ADT A121.
Special Fees.
Theory, diagnosis and repair of automotive electrical systems, to include testing tools, schematics, and computers.

ADT A135 Automotive Technology—Asset II 13 CR
Contact Hours: 8 + 12
Registration Restrictions: Formal acceptance into the UAA/Ford ASSET program.
Special Note: Includes 280 hours of on-the-job training.
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.

ADT A150 Brake Systems 4 CR
Contact Hours: 2 + 4
Prerequisites: ADT A121.
Corequisite: ADT A131.
Special Fees.
Theory, diagnosis, and repair of automotive brake systems.

ADT A162 Suspension and Alignment 4 CR
Contact Hours: 2 + 4
Prerequisites: ADT A121.
Corequisite: ADT A131.
Special Fees.
Modern automotive suspension, alignment, and steering theory, inspection, service, and adjustments including four wheel alignment.

ADT A195 Advanced Practicum I 6 CR
Contact Hours: 0 + 34
Registration Restrictions: At least 12 credits of advisor approved ADT program technical courses; valid Alaska driver's license.
Provides supervised workplace experience in selected industry settings. Integrates knowledge and practice to achieve basic skill competencies.

ADT A211 Auto Fuel Systems 4 CR
Contact Hours: 3 + 2
Prerequisites: ADT A195.
Corequisite: ADT A212 and ADT A214.
Special Fees.
Special Note: Specialty tools required.
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.

ADT A212 Engine Performance 6 CR
Contact Hours: 4 + 4
Prerequisites: ADT A131.
Corequisite: ADT A211 and ADT A214.
Special Fees.
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.

ADT A214 Emission Systems 4 CR
Contact Hours: 3 + 2
Prerequisites: ADT A130.
Corequisite: ADT A211 and ADT A212.
Special Fees.
Special Note: Specialty tools required.
Introduces current emission system operations, diagnosis, service, and effect on tailpipe emissions. Prepares student for current MOA/State test for I/M certification.

ADT A215 Automotive Technology—Asset III 13 CR
Contact Hours: 8 + 12
Registration Restrictions: Formal acceptance into the UAA/Ford ASSET program.
Special Fees.
Special Note: Includes 280 hours of on-the-job training.
Covers the theory, diagnosis, service and repair of 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.

ADT A225 Auto Heating and A/C 3 CR
Contact Hours: 2 + 2
Prerequisites: ADT A131.
Theory, diagnosis and repair of automotive heating and air conditioning systems.

ADT A227 Auto Electrical III 3 CR
Contact Hours: 2 + 2
Prerequisites: ADT A131.
Special Note: Specialty tools required.
Theory, diagnosis and repair of automotive electrical and electronic systems, to include accessories.

ADT A235 Automotive Technology—Asset IV 13 CR
Contact Hours: 8 + 12
Registration Restrictions: Formal acceptance into the UAA/Ford ASSET program.
Special Fees.
Special Note: Includes 280 hours of on-the-job training.
Covers the theory, diagnosis, service and repair of Ford 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.

ADT A241 Diesel Fuel Systems 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Third semester diesel student.
Corequisite: ADT A245 and ADT A246.
Special Fees.
Develops working knowledge needed for proper servicing of major diesel fuel systems used in Northwestern United States.

ADT A243 Heavy-Duty Electrical Systems 3 CR
Contact Hours: 2 + 3
Registration Restrictions: Knowledge of basic electricity and/or experience with electrical systems.
Special Fees.
Provides students with theory and diagnostic skills for heavy-duty starters, alternators, and circuits. Integral part of third semester Diesel Technology Program.

ADT A245 Diesel Engines 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Third semester diesel student.
Corequisite: ADT A241 and ADT A246.
Special Fees.
Provides students and technicians with exposure to two- and four-stroke diesel engines, and related systems such as airspace induction, coolant, and lubrication.

ADT A246 Diesel Service Laboratory I 5 CR
Contact Hours: 0 + 15
Registration Restrictions: Third semester diesel student.
Corequisite: ADT A241 and ADT A245.
Special Fees.
Special Note: Basic tool set and diesel tool set required.
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.

ADT A248 Diesel Service Laboratory II 6 CR
Contact Hours: 0 + 18
Registration Restrictions: Fourth semester diesel student.
Corequisite: ADT A261, ADT A263 and ADT A265.
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.

ADT A255 Automotive Technology—Asset V 13 CR
Contact Hours: 8 + 12
Registration Restrictions: Formal acceptance into the UAA/Ford ASSET program.
Special Note: Includes 280 hours of on-the-job training.
Covers the theory, diagnosis, service and repair of Ford automatic and manual transmissions, transaxles, clutches, all wheel drive systems, drive lines and differentials. Provides the asset student with the prerequisite knowledge necessary to function effectively in the dealership environment and perform service related to automatic and manual transmissions, transaxles, clutches, all wheel drive systems, drive lines and differentials.

ADT A261 Hydraulics 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Fourth semester diesel student.
Corequisite: ADT A248, ADT A263 and ADT A265.
Special Fees.
Provides working knowledge for proper troubleshooting and servicing of hydraulic systems.

ADT A263 Heavy-duty Power Trains 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Fourth semester diesel student.
Corequisite: ADT A248, ADT A261 and ADT A265.
Special Fees.
Expands knowledge and skills of light-duty technicians in field of heavy-duty power trains.

ADT A265 Heavy-duty Chassis 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Fourth semester diesel student.
Corequisite: ADT A248, ADT A261 and ADT A263.
Special Fees.
Provides technical background to diagnose and repair heavy-duty air brake and chassis components.

ADT A282 Power Trains III 3 CR
Contact Hours: 2 + 2
Prerequisites: ADT A114 and ADT A131.
Special Note: Specialty tools required.
Theory, diagnosis and repair of automotive power train systems to include automatic transmissions and transaxles.

ADT A295 Automotive Practicum II 3 CR
Contact Hours: 0 + 17
Prerequisites: ADT A195.
Registration Restrictions: Department approval, and valid Alaska driver's license.
Provides supervised workplace experience in industry settings. Integrates advanced level knowledge and practice to achieve skill competencies.

ARCHITECTURAL & ENGINEERING TECHNOLOGY - AET

Offered through the Community & Technical College
Beatrice McDonald Building (BMB), Room 230, 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 Drafting for Building Construction 3 CR
Contact Hours: 1 + 2
Special Fees.
Basic drafting skills necessary in survey and civil engineering, architectural, mechanical, structural, and electrical drafting within the building construction fields. Introduction to building construction industry, including relationships between architects, engineers, drafters, and technicians.

AET A102 Specifications and Materials for Building Construction 4 CR
Contact Hours: 4 + 0
Special Fees.
Investigation of building specification types, language style, writing formats, and information sources, including the CSI Masterformat. Analysis of building materials, structural components, code requirements, construction processes, and assemblies. Community field project involving team research of current Alaskan building types.

AET A111 Topography and Land Development Drafting 3 CR
Contact Hours: 1 + 2
Prerequisites: AET A101 and AET A102.
Special Fees.
Introduction to United States rectangular descriptions and written land descriptions in mapping. Construction of topography maps using interpolating methods and extensive ink drafting in plat preparation.

AET A121 Architectural Working Drawings and Office Practice 3 CR
Contact Hours: 1 + 2
Prerequisites: AET A101 and AET A102.
Special Fees.
Introduction to technical skills needed by architectural drafters and technicians to work with architects. Includes office practices, staff relationships, and architectural working drawing production. Develops technical skills in architectural drawing symbols, conventions, dimensioning systems, reference systems, sheet organization, code requirements, and research methods for detailing light commercial buildings.

AET A122 Architectural Presentation Techniques 3 CR
Contact Hours: 1 + 2
Prerequisites: AET A121.
Special Fees.
Technical training for architectural drafters or technicians with special emphasis on economical, time-efficient presentation drawings. Includes reproduction processes and art media for graphic communication of architectural projects. Develops technical skills in use of pencil, ink, and design markers for plan, elevation, and perspective drawings. Delineation techniques for building materials, entourage, cars, people, and composition layout.

AET A131 Structural Working Drawings and Office Practice 3 CR

Contact Hours: 1 + 2
Prerequisites: AET A101 and AET A102.
Special Fees.

Introduction to technical skills needed by structural drafters and technicians to work with structural engineers. Includes office practices, staff relationships, and structural working drawing production. Develops technical drafting skills in symbols, conventions, dimensioning systems, reference systems, sheet organizations, code analysis and research methods for steel, wood, and reinforced concrete building structures.

AET A141 Mechanical Building Equipment Design and Drafting 3 CR

Contact Hours: 1 + 2
Prerequisites: AET A101 and AET A102.
Special Fees.

Application of technical computer analysis, theory, drafting, and code requirements to design and produce working drawings for mechanical building systems. Includes water supply, liquid waste, heating, ventilation, and air conditioning. Develops technical drafting skills in mechanical symbols, conventions, dimensioning systems, reference systems, and research methods for residential and light commercial mechanical building equipment.

AET A151 Electrical Building Equipment Design and Drafting 3 CR

Contact Hours: 1 + 2
Prerequisites: AET A101 and AET A102.
Special Fees.

Application of technical computer analysis, theory, drafting and code requirements to design and produce working drawings for electrical building systems. Includes fundamentals of electricity, AC/DC Circuits, servicing, relay/distribution panels, branch circuiting, lighting, sound and signal communication systems. Develops technical drafting skills in electrical symbols, conventions, dimensioning systems, reference systems, and research methods for residential and light commercial electrical building 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 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 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 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 A211 Subdivision Design and Land Classification 4 CR

Contact Hours: 2 + 4
Prerequisites: AET A111.
Special Fees.

Elements of subdivision design using federal, state, and municipal platting regulations for subdivisions. All stages of office work, including topographic mapping. Covers preservation, conservation, utilization, and classification of land.

AET A212 Advanced Site Development Techniques 3 CR

Contact Hours: 1 + 2
Prerequisites: AET A101 and AET A102 and AET A111 and AET A211.
Special Fees.

Introduction to procedures, terminology, and skills necessary for application of surveying, topography, and plotting software packages for the HP80 series computers and hand-held programmable calculators used by civil engineering and survey technicians. Projects include earthwork, topography, surface modeling and plotting.

AET A221 Design Development for Architectural Technicians 4 CR

Contact Hours: 2 + 4
Prerequisites: AET A121 and AET A122.
Special Fees.

Analysis and use of design methodology, processes, and vocabulary needed by architectural technicians to work with architectural designers during schematic and design development. Includes graphic skills in schematic drawings for small Alaskan residences and office buildings. Develops technical skills in research and systematic design methods, documentation, graphic layout, binding, and reproduction techniques for design proposal reports.

AET A231 Structural Design and Detailing for Engineering Technicians 3 CR

Contact Hours: 1 + 2
Prerequisites: AET A131.
Registration Restrictions: High school or college trigonometry recommended.
Special Fees.

Methods of analysis and communication for structural technicians working with structural engineers. Includes statics and stability of simple structural systems, development of stress/strain relationships, beam and truss mechanics. Introduction to trigonometric, graphic, and computer analysis with focus on connection detailing and code requirements for wood, concrete, and steel construction.

AET A281 Basic 2-D CADD 4 CR

Contact Hours: 1 + 1
Prerequisites: AET A101 and AET A102.
Registration Restrictions: High school completion and freshman level reading, writing, and math skills. Three additional AET credits; or previous drafting experience with faculty permission.
Special Fees.

Introductory 2-Dimensional computer-aided drafting/design (CADD) course covering system organization, vocabulary/terminology, and creation/manipulation of 2-D drawings through hands-on experience with minicomputer-based drafting/design software. Projects taken from building construction fields of architecture, civil engineering, surveying, structural engineering, mechanical engineering, and electrical engineering.

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.

AGRICULTURE - AGRI

Offered through Matanuska-Susitna College
P.O. Box 2889, Palmer, Alaska, 99645, (907) 745-9721

AGRI A100 Survey of Agriculture (Agriculture in Our Lives) 3 CR

Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.

Concepts and techniques of agriculture; past, present and future agricultural industry; food and fiber production; land grant university system; agriculture careers; overview of world, U.S. and Alaskan agriculture.

AGRI A101 Introduction to Plant Science I 3 CR

Contact Hours: 3 + 0
Registration Restrictions: High school biology and chemistry recommended.
Offered only at Matanuska-Susitna College.

Principles of identification, adaptation, management and utilization of field and horticultural crops for food and fiber. Fundamentals of crop management, breeding, weed control and crop quality.

AGRI A102 Introduction to Plant Science II 3 CR
Contact Hours: 3 + 0
Prerequisites: AGRI A101.
Principles of plant science as related to production of economic crops with special attention to management and marketing of those grown in Alaska.

AGRI A103 Introduction to Soil Science 3 CR
Contact Hours: 3 + 0
Registration Restrictions: High school biology and chemistry recommended.
Offered only at Matanuska-Susitna College.
Stresses properties of soils and how they affect plant growth, soil texture, structure, moisture retention, chemistry, fertility, temperature, biological activity and organic matter. Covers liming, fertilization, nutrient deficiencies, and irrigation for agricultural plants.

AGRI A104 Conservation of Natural Resources 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Special Note: Majors in all fields are welcome.
Consideration of natural resources including discussion of their biological and physical nature, social and economic aspects of use, conflicts of use, and alternative means for conservation.

AGRI A109 Mini-Ranch Livestock Production 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Designed for the backyard animal producer. Emphasis on animal and poultry production, practices and skills necessary for enjoyment of successfully raising and using them to benefit mini-farm operator and family.

AGRI A110 Introduction to Animal Science 3 CR
Contact Hours: 3 + 0
Registration Restrictions: High school biology and chemistry recommended.
Offered only at Matanuska-Susitna College.
Basic course in animal husbandry including importance and place of livestock in agriculture; types, market classes and grades of beef, sheep and swine; origin and characteristics of breeds, and judging of beef, sheep and swine.

AGRI A113 Practical Horsemanship I 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Basic health, feeding, and physical care. Coupled responsibilities of horse ownership. Fundamental behavior and training for the beginner.

AGRI A115 Basic Horse Behavior and Training I 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Introduces principles necessary for understanding horse behavior and physical development of the riding horse. Presents principles and procedures of communication, and horse training from halter training to mounted work. Includes actual handling and training of horses.

AGRI A120 Introduction to Agriculture Business 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Economics of agriculture production. The management principles in agriculture and the demand for farm products, principles of marketing and price determination. Identification of individual problems and alternative approaches to their solution.

AGRI A121 Marketing Alaska Farm Products 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Covers organization and function of nation's food system. Emphasis on farm commodities produced in Alaska, and organizational and infrastructural problems encountered in marketing of farm commodities. Food marketing problems treated from vantage points of producers, processors, distributors and consumers.

AGRI A133 Motors and Controls 3 CR
Contact Hours: 3 + 0
Crosslisted with: ET A120 and RH A120.
Offered only at Matanuska-Susitna College.
Provides understanding of principles of operation of motors, generators, transformers and motor control apparatus. Study of definitions, symbols, diagrams and illustrations gives a sound background in the language and basic principles associated with electricity, electrical equipment, electrical apparatus and electrical code principles.

AGRI A136 Introduction to Horticulture 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Reviews plant structure and growth; soils; plant nutrition; plant propagation; potting media; fertilizers; indoor plant care; light management; container gardening; interior landscaping; greenhouse growing and plant forcing.

AGRI A138 Organic Gardening 1-3 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Introduces organic methods and materials for ecological agriculture covering soil management, crop rotations, weed control, pest management, garden planning, planting, harvesting, storage, French intensive methods, and compost.

AGRI A139 Modern Home Gardening 3 CR
Contact Hours: 3 + 0
Principles of gardening—comprehensive coverage of plants, soils and climates, the basic elements with which the gardener must deal. Practices of gardening—the manipulation of the basic elements; growing of important vegetables, herbs, perennial food plants and flowers.

AGRI A140 Crop Production 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
The adaptation, production, utilization, and improvement of cereal grains and forage crops for food, feed, soil improvement, and conservation purposes in the Alaskan environment.

AGRI A200 Agriculture in Alaska: Past, Present, and Future 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Historical review of development of agriculture in Alaska from the time the Russians settled Alaska until present. Study of development problems such as climatic limitations, economic feasibility, and problems of production and marketing. Covers both progression and regression of Alaskan agriculture from Russian era to present. In-depth analysis of present agricultural production and development emphasizing support provided by the State of Alaska. Considers Alaska's agricultural potential, i.e., basic agricultural resources, systems for using the basic resources, and the effects of economic factors and markets on agricultural development. Briefly looks at Alaska's forests including a general description, past history and future potential.

AGRI A201 Forage Management 3 CR
Contact Hours: 3 + 0
Prerequisites: AGRI A101 and AGRI A103.
Offered only at Matanuska-Susitna College.
Distribution, morphology, identification, physiology, management and utilization of forage crops for hay, silage, and pasture for livestock, and for soil improvement and soil conservation.

AGRI A209 Apiculture and Pollination 2 CR
Contact Hours: 2 + 0
Offered only at Matanuska-Susitna College.
Biology of honeybee and some wild bees. Relationship between bees and flowering plants. Value of bees in crop production. Introduction to management and skills necessary for keeping bees. Visit to local apiary when feasible.

AGRI A210 Applied Animal Nutrition 3 CR
Contact Hours: 3 + 0
Prerequisites: AGRI A110 and [CHEM A105 or BIOL A105].
Offered only at Matanuska-Susitna College.
Study of digestion, absorption, assimilation and utilization of nutrients, principle feeds, minerals and vitamins, rations and nutritive ration as utilized by domestic animals.

AGRI A212 Beef Production 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Introduces feeding, breeding management, and marketing. Emphasizes growth and development; costs and returns; feed requirements; reproduction and crossbreeding; performance testing; housing; and diseases.

AGRI A213 Practical Horsemanship II 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Introduces fundamentals of training and care of light horses. Covers theories of horse behavior as related to training and performance. Emphasizes health and care of horses in Alaska's environment. Intended to be academic but practical course with hands-on training.

AGRI A215 Basic Horse Behavior and Training II 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Focuses on practical psychology of riding, and introduces basic principles and methods of training the performance horse from mounting of the horse to training skills under saddle. Includes the actual starting and training of green horses.

AGRI A216 Basic Horse Behavior and Training III 3 CR
Contact Hours: 3 + 0
Prerequisites: AGRI A215.
Offered only at Matanuska-Susitna College.
Focuses on the advanced psychology of riding to include principles and methods of training the performance horse from mounting of the horse to training skills under saddle. Includes the actual training of horses and implementation of skills learned in AGRI 215.

AGRI A220 Agricultural Business 3 CR
Contact Hours: 3 + 0
Prerequisites: AGRI A120.
Offered only at Matanuska-Susitna College.
Application of fundamental principles of records and accounting in organization and management of agricultural enterprises.

AGRI A227 Landscape Design: A Home Owner's Approach 1 CR
Contact Hours: 1 + 0
Registration Restrictions: AGRI A137 or AGRI A139 recommended.
Grade Mode: Pass/No Pass.
Designed for the beginning home landscaper. Covers the first phases of landscape design including site inventory, site analysis, conceptual design, and preliminary design. Construction phasing, final design components, and additional resources will be discussed briefly

AGRI A231 Essentials of Forestry Practice 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Introduction to basic concepts and practical methods of forestry; characteristics and growth requirements of forest trees; operations and practices in forest management, logging, processing of wood products, marketing and forest protection. Fieldwork is an essential part of the course.

AGRI A234 Land Resource Economics 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
A systematic description and study of economic concepts relating to the use and possession of land resources. Surveys Alaska's land resources, and their importance to the state's development and economy.

AGRI A240 Greenhouse Operation and Management 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Covers principles of management and operation of both home and commercial greenhouses. Includes greenhouse construction, heating, cooling, root media, root media pasteurization, watering, fertilization, carbon dioxide fertilization, light and temperature management, chemical growth regulation, insect and disease control, and the management of several selected crops.

AGRI A241 Bedding Plant Production 2 CR
Contact Hours: 2 + 0
Offered only at Matanuska-Susitna College.
Covers fundamentals of raising bedding plants; seed sowing; soil media and soil sterilization, containers, transplanting, and fertilization. Discusses different systems of raising bedding plants.

AGRI A245 Master Gardener 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Experienced gardeners in Alaska, plus a commitment to volunteer 40 hours to CES in gardening subject areas.
Offered only at Kenai Peninsula College.
Course will teach volunteers (master gardeners) to extend the gardening information and resources of cooperative extension service to area gardeners.

AGRI A250 Poultry Science 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Introduces poultry in the agricultural economy. Covers fundamental principles of anatomy, physiology and body systems, diseases, their prevention and control; and management practices and procedures in producing poultry, meat and eggs.

AGRI A260 Horticultural Practices 3 CR
Contact Hours: 3 + 0
Culture, morphology and cultivars of vegetables, potatoes and ornamental crops. Emphasis directed to garden, field, greenhouse and nursery production in Alaska. Special emphasis on bedding plant production.

AGRI A295 Individualized Practicum 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Faculty permission.
Offered only at Matanuska-Susitna College.
Individual work on a field, laboratory, or library research problem of special interest to the student.

AGRI A337 Plant Propagation 3 CR
Contact Hours: 2 + 3
Prerequisites: AGRI A102.
Offered only at Matanuska-Susitna College.
Includes sexual and asexual propagation of plants; hybrid seed production; pollination and fertilization along with seed cleaning, drying, dormancy, germination and certification. Covers vegetative cuttings, stock plant production, the use of growth regulators, rooting and grafting, plus bulbs, corms and tubers. Considers micro-propagation and environmental control of root development.

ALASKA NATIVE STUDIES - AKNS

Offered through the College of Arts and Sciences
Classroom Building K (K), Room 132A, 786-4175

AKNS A101 Alaska Native Languages I 4 CR
Contact Hours: 4 + 0
Special Note: May be repeated for credit if language varies. Languages currently available: Central Yup'ik, Siberian Yup'ik, Tlingit, Inupiaq, and Haida - eyak.
Introductory course to a selected Alaska Native language for beginners with no, or little, prior knowledge of the specific language. Aural/oral skills are stressed and TPR (Total Physical Response) and/or other communicative approaches used. Emphasis is on everyday vocabulary, structure, and phonetics. A brief history of Alaska Native languages is included.

AKNS A102 Alaska Native Languages II 4 CR
Contact Hours: 4 + 0
Prerequisites: AKNS A101.
Stacked with: AKNS A109.
Special Note: Course may be repeated for credit if language varies. Native speaking students can gain entrance to the course with the instructor's signature.
Continuing study of Language and Culture for those wishing to learn the specific language being offered. TPR (Total Physical Response) method used whereby students learn comprehension and use of language in everyday situations. Some reading and writing included.

AKNS A109 Alaska Native Language Orthography 4 CR
Contact Hours: 4 + 0
Prerequisites: AKNS A101.
Stacked with: AKNS A102.
Special Fees.
Special Note: Course may be repeated for credit if language varies. It is assumed that students have the appropriate level of language proficiency to master this course. Students should discuss with the instructor expectations and demands of this course prior to registering.
An introduction to reading and writing a selected Alaska Native language for students with Native or near-Native oral proficiency in the respective language. Students are introduced to alphabet and phonetic classification, to dialect differences, and to the history of the written language. Students practice reading and writing the language.

AKNS A110 Parliamentary Procedures 1 CR
Contact Hours: 1 + 0
Examines the 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.

AKNS A180 Introductory Alutiiq 1 CR
Contact Hours: 1 + 0
Offered only at Kodiak College.
Introduction to some of the basic aspects of Sugtestun grammar, and training in the use of the Sugtestun alphabet. Basic grammar and vocabulary terms will be introduced using the Total Physical Response (TPR) method of immersion language instruction.

AKNS A201 Native Perspectives 3 CR
Contact Hours: 3 + 0
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 Note: Subtitle varies. May be repeated for credit with a different subtitle.
A topic of contemporary or continuing interest in Alaska Native Studies, treated at an introductory level. Prominent leaders in the Native community are brought into direct classroom contact with students to discuss important issues in rural Alaska and the larger Native community.

AKNS A346 Alaska Native Politics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Upper Division Standing.
Crosslisted with: PS A346.
Special Note: May be applied to the Alaska Culture and History requirements for State of Alaska teacher recertification.
Politics and governments of Alaska Natives. Focuses on the history of Native/non-Native relations, contemporary issues and possibilities, and comparative case studies in Canada, Siberia, Greenland, and Scandinavia.

AKNS A411 Tribes, Nations and Peoples 3 CR
Contact Hours: 3 + 0
Registration Restrictions: PS A101 or PS A102 or Junior standing.
Crosslisted with: PS A411.
The politics of tribes, nations, and peoples lacking state representation. Case studies are drawn from Africa, Asia, Australia, North and South America, the South Pacific, Europe, and the former Soviet Union. Focuses on the nature of the economic system and how the economic process redistributes power and wealth.

AKNS A420 Alaska Native Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Upper division standing.
Examination of educational policies as they relate to Native Americans with an emphasis on these policies' historical implementation in Alaska and the contemporary issues which have arisen as a result of those efforts.

AKNS A490 Selected Topics in Alaska Native Studies 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Upper division standing.
Special Note: Subtitle varies, may be repeated for credit with a different subtitle.
A topic of contemporary or continuing interest in Alaska Native Studies, treated at an upper level. Tradition and change in Native social institutions in contemporary society. Methods of identifying and analyzing significant Native social change processes for public understanding.

AKNS A492 Seminar: Cultural Knowledge of Native Elders 3 CR
Contact Hours: 3 + 0
Registration Restrictions: AKNS A201 or Upper Division Standing.
Special Note: Students enrolling in this course should have either upper division class standing with a strong background in the social sciences or appropriate life experience or a combination of the two prior to enrolling for this course.
Provides students exposure to and interaction with prominent Alaska Native tradition bearers in order to ascertain knowledge of the traditional values, culture, and world views which comprise the heritage of Alaska Native people. Students will gather information on traditional values, governance, and leadership by eliciting accounts of the elders' experiences, and by comparing Native and "Western" culture, understand the significance of cultural differences in world view, heritage, and communication.

ANTHROPOLOGY - ANTH

Offered through the College of Arts and Sciences
Beatrice McDonald Building (BMB), Room 214, 786-6840

ANTH A101 Introduction to Anthropology 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences
Special Note: Recommended for majors and non-majors.
Introduction to fundamentals of the four subfields of anthropology: archaeology, cultural anthropology, biological anthropology and anthropological linguistics. The course introduces basic ideas, methods and findings of anthropology.

ANTH A200 Natives of Alaska 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences
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
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
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
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
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
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
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
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.
Tracing human developments in the New World North of Mexico up to European contact.

ANTH A313 Peopling of the Americas 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A312.
Registration Restrictions: ANTH A211 recommended.
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. Includes a detailed analysis of relevant archaeological sites as well as linguistic and biological data pertaining to Native American origins.

ANTH A316 Arctic Archaeology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A211 recommended.
Origins and development of the prehistoric cultures of northern North America.

ANTH A324 Culture and Personality 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 or SOC A101 recommended.
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
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 A326 Arctic Ethnology 3 CR
Contact Hours: 3 + 0
Ethnic groups and cultures of the circumpolar area, Siberia to Greenland.

ANTH A330 Ancient Civilizations of Mexico and Guatemala 3 CR
Contact Hours: 3 + 0
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.
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.
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.
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
Cultural history and variations of Scandinavian peoples including their origins, prehistory, biological affiliations, major migrations and selected current issues.

ANTH A345 Evolution of Humans and Disease 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Upper-division standing.
Evolution of human response to disease: evolution of disease response to humans. Interrelationships of human behavior, biology, and disease. Paleopathological diagnosis.

ANTH A350 Survey of the Primates 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Upper-division standing.
Introduction to the biology and behavior of nonhuman primates.

ANTH A354 Culture and Ecology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A202.
Registration Restrictions: ANTH A202.
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 A355 Medical Anthropology 3 CR
Contact Hours: 3 + 0
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 A356 Food and Nutrition: An Anthropological Perspective 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A205 recommended.
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 nutrition pathology, food-getting and food preparation technology, and the relationship between food and population.

ANTH A361 Language and Culture 3 CR
Contact Hours: 3 + 0
Study of the relationship between language and culture with coverage of such topics as language variation, meaning in culture, taxonomies, and phonemic principles.

ANTH A365 Races: Modern Human Diversity 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Upper-division standing.
Survey of modern human biological variation in an evolutionary perspective. Comparison of the differences (and similarities) within and between modern human populations and the distribution of those differences.

ANTH A371 Selected Topics in Anthropology 1-3 CR
Contact Hours: 1-3 + 0
Special Note: May be repeated for credit.
Topic varies.

ANTH A400 Anthropology of Religion 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 recommended.
Descriptive and comparative study of religious phenomena in traditional societies including myth, ritual, magic, witchcraft, and shamanism.

ANTH A403 Anthropological Perspectives on Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 recommended.
Anthropological approaches to education as behavioral transmission. The role of formal and non-formal educational systems in different cultural systems. Anthropological perspectives on "Schooling" including extensive use of case study materials.

ANTH A410 History of Anthropology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A202.
Development of the science of anthropology, stressing the leaders in the field and the theories developed.

ANTH A420 Economic Anthropology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 recommended.
Anthropological approaches to the production, distribution, and consumption of resources in human cultural systems. The organization and operation of preindustrial economics in relation to other cultural subsystems. Internal and external models of economic development.

ANTH A430 Field Methods in Cultural Anthropology 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A202.
Methods for field work in cultural anthropology, focusing on both quantitative and qualitative research strategies.

ANTH A431 Field Methods in Archaeology 1-8 CR
Contact Hours: 0 + 3-24
Registration Restrictions: Faculty permission.
Special Fees.
Special Note: May be repeated once for credit.
Introduction to the basic techniques of archaeological data recovery and recording, laboratory processing and preliminary analysis of archaeological material.

ANTH A432 Hunting and Gathering Societies 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 recommended.
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 A433 Maritime Anthropology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 recommended.
Cross-cultural analysis of traditional maritime and coastal societies, including their prehistory, subsistence, demography, social structure, and economic and political organization, with an emphasis on non-Arctic groups.

ANTH A435 Northwest Coast Cultures 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A202.
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
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 A450 Human Evolution 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A205 or equivalent.
Intensive study of the last four million years of human evolution. Emphasizes evolutionary theory and the analysis and interpretation of fossil hominids.

ANTH A456 Anthropology and the Law 3 CR
Contact Hours: 3 + 0
Crosslisted with: JUST A456.
Study of cross-cultural variations in forms of social control or law, including traditional Alaskan Native forms. Moving beyond the purely theoretical concerns of law cross-culturally, this course will investigate legal service delivery problems in cross-cultural settings, drawing upon both anthropological knowledge and jurisprudence. Ways for improving legal service delivery systems will be examined. Service delivery systems will be examined.

ANTH A480 Analytical Techniques in Archaeology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Special Note: May be repeated once for credit.
Methods and techniques of description, classification, and analysis of archaeological data. Laboratory work with archaeological specimens and data is emphasized.

ANTH A483 Archaeology of Animals 3 CR
Contact Hours: 3 + 0
Prerequisites: ANTH A211.
Registration Restrictions: ANTH A480 is recommended.
Methods and techniques for, and theoretical approaches to, the description, analysis, and interpretation of animal bone assemblages from archaeological sites. Includes identification and quantification of animal remains, paleoenvironmental and dietary reconstruction, seasonality of site occupation, hunting and herding strategies, and the role of animals in the economy and geology of human societies.

ANTH A485 Human Osteology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A205 or equivalent.
Methods and techniques of and theoretical approaches to human skeletal identification, description, and analysis. Includes identification of age, sex, and racial attributes as well as interpretation of pathological changes in human bone.

ART - ART

http://www.uaa.alaska.edu/art/
Offered through the College of Arts and Sciences
Arts Building (ARTS), Room 302A, 786-1783

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, Basketmaking, or Weaving Topics)
Contact Hours: 0-3 + 0-9
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Does not satisfy BA, BFA, or minor in art degree requirements. May be repeated for credit.
Art studio topics in all areas of fibers, basket making or weaving may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

ART A103 Multi Process Activities 1-3 CR
(Select Printmaking, Papermaking, or Photography Topics)
Contact Hours: 0-3 + 0-9
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Does not satisfy BA, BFA, or minor in art degree requirements. May be repeated for credit.
Art studio topics in all areas of printmaking, papermaking, or photography may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

ART A104 Multi-Media Activities 1-3 CR
Contact Hours: 0-3 + 3-9
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Does not satisfy BA, BFA, or minor in art degree requirements. May be repeated for credit.
Art studio topics in all areas of multi-media art processes may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

ART A105 Beginning Drawing 3 CR
Contact Hours: 0 + 6
Stacked with: ART A205, ART A305, and ART A405.
Special Fees.
Introduction to elements of drawing. Dry and wet media such as pencil, charcoal, and ink. Class and homework assignments in drawing objects, still lifes, perspective effects, and human forms.

ART A111 Two-Dimensional Design 3 CR
Contact Hours: 0 + 6
Special Fees.
Study of organization, structure, and composition of form through use of basic design elements such as line, shape, and value. Emphasis is on development of design as related to two-dimensional art.

ART A112 Color Design 3 CR
Contact Hours: 0 + 6
Special Fees.
Two-dimensional study of fundamentals of color and visual perception. Design projects will emphasize evaluation and mixing of color and include development of a color wheel to acquire understanding of contrast in hue, value, and intensity.

ART A113 Three-Dimensional Design 3 CR
Contact Hours: 0 + 6
Special Fees.
Exploration of three-dimensional design, employing such materials as paper, card, wood, sheet metal, plastic and wire using simple hand and machine techniques. Analysis and discussion of three-dimensional perception will be directed by projects that develop awareness. Seeks to stimulate discussion and analysis of three-dimensional perception.

ART A160 Art Appreciation 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Fine Arts
Special Fees.
Special Note: Course meets General Education Requirement except for Art majors.
Development of an appreciation of all the visual arts. Course emphasis is on the theories, practice, materials, and techniques of the visual arts.

ART A180A Beginning Stained Glass 3 CR
Contact Hours: 3 + 0
Special Note: Does not satisfy BA in Art or BFA degree requirements.
Introduces techniques including pattern designing, cutting, and lead came.

ART A180B Intermediate Stained Glass 1 CR
Contact Hours: 1 + 0
Prerequisites: ART A180A.
Special Fees.
Special Note: Does not satisfy BA in Art or BFA degree requirements.
Continuation of ART 180A emphasizing advanced use of lead came and copper foil.

ART A181A Beginning Calligraphy 3 CR
Contact Hours: 3 + 0
Special Note: Does not satisfy BA in Art or BFA degree requirements.
The art of lettering. Writing and practicing the Roman alphabet and formal Italic, emphasis on writing position, order of pen strokes, spacing, practice, suggestion, and exercises. Introduction to various tools, including pens, inks, papers, and watercolors. Students learn the following alphabet: Bookhand, Italic and/or Uncial and cover numbering, color usage and design.

ART A182 The Art of Skin Sewing 3 CR
Contact Hours: 3 + 0
Special Note: Does not satisfy BA in Art or BFA degree requirements.
Basic techniques of sewing skins, including skin selection, preparation, patterns, cutting, stitching, applied designs as sewn by Natives of the northern regions of Alaska.

ART A183A Beginning Woodcarving 3 CR
Contact Hours: 3 + 0
Special Note: Does not satisfy BA in Art or BFA degree requirements.
Introduction to the tools and basic methods used in woodcarving. Use of knives and gouges. Selection of patterns. Proper tool sharpening. Emphasis on relief carvings but also covers carving in the round and other areas of interest.

ART A183B Intermediate Woodcarving 3 CR
Contact Hours: 3 + 0
Prerequisites: ART A183A.
Special Note: Does not satisfy BA in Art or BFA degree requirements.
Continuation of ART 183A using knives and gouges, selection of patterns, proper tool sharpening. Emphasis on carving in the round and relief carving.

ART A185A Nelson Island Eskimo Basket Weaving 3 CR
Contact Hours: 3 + 0
Special Note: Does not satisfy BA in Art or BFA degree requirements.
The gathering, curing, dyeing, and weaving of grasses will be discussed. Major concentration will be on the Nelson Island system of Eskimo basket weaving with in-depth student participation.

ART A185B Aleut Basket Weaving 1 CR
Contact Hours: 0 + 2
Offered only at Kodiak College.
Special Note: Does not satisfy BA in Art or BFA degree requirements.
A crafts involvement in the authentic, fine-twined basketwork of the Aleutian Islands.

ART A187A Oil Painting for Pleasure 3 CR
Contact Hours: 3 + 0
Special Note: Does not satisfy BA in Art or BFA degree requirements.
Designed for beginning and intermediate painters. Emphasizes individual growth. Subject matter includes Alaskan scenes as well as other selections.

ART A187B Wildlife Painting 3 CR
Contact Hours: 3 + 0
Prerequisites: ART A105.
Special Note: Does not satisfy BA in Art or BFA requirements.
Emphasizes accurate rendition of wildlife and close attention to the proper habitat scenes. Students will illustrate Native and foreign mammals and birds in their natural habitats.

ART A201 Beginning Handbuilt Ceramics 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Special Fees.
Special Note: May be repeated once for credit.
Introduction to ceramic materials and process. Emphasis on handbuilding forming methods. Includes clays, clay bodies, slips, glazes, and the firing process. Exposure to idea development and creative problem solving.

ART A202 Beginning Wheelthrown Ceramics 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A201.
Special Fees.
Special Note: May be repeated once for credit.
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. Introduction to client identity, printing, and production process. Survey of industry history.

ART A261 History of World Art I 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Fine Arts and GER Humanities
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 and GER Humanities
Special Fees.
Origins and development of painting, sculpture, and architecture. The course covers the history of art from the Renaissance through the modern period with emphasis on the art of the Western World.

ART A271 Beginning Surface Design 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A371 and ART A471.
Special Note: May be repeated for credit.
Introduction to resist dyeing processes using directly applied resists (wax, rice paste) in designing and patterning the art fabric surface.

ART A272 Beginning Fiber Structures 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A372 and ART A472.
Special Note: May be repeated for credit.
Introduction to hand constructed textiles, adapting traditional methodology to the production of contemporary art.

ART A273 Beginning Woven Forms 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A373 and ART A473.
Special Note: May be repeated for credit.
Introduction to European floor loom. Various on-loom techniques are utilized in the production of the art fabric.

ART A290 Promotional Skills for Artists 3 CR
Contact Hours: 3 + 0
Special Note: Not applicable to either BBA degree or AAS degrees in the College of Business and Public Policy. Does not satisfy BA in Art or BFA degree requirements.
The promotion of art skills and products. The course includes presentation, portfolios, resumes, copyright laws; opportunities and subjects related to self promotion and the selling of art works.

ART A301 Intermediate Handbuilt Ceramics 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A202.
Stacked with: ART A401.
Special Fees.
Special Note: May be repeated once for credit.
Continued and intensified development of handbuilding forming methods with more emphasis on form, content, and creative problem solving. Includes all forming methods, low fire through high fire clay bodies, slips, glazes, and firing techniques.

ART A302 Intermediate Wheelthrown Ceramics 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A202.
Stacked with: ART A402.
Special Fees.
Special Note: May be repeated once for credit.
Continued and intensified development of wheelthrowing techniques with more emphasis on the history and aesthetics of functional pottery. Includes low fire through high fire clay bodies, slips, glazes and firing techniques.

ART A305 Advanced Drawing 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A105, ART A205, and ART A405.
Special Fees.
Special Note: May be repeated for credit.
Development and of individual problems in drawing.

ART A307 Life Drawing and Composition 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A356.
Special Fees.
Special Note: May be repeated for credit.
Drawing from live models to explore possibilities in design composition. Emphasizes form and space using charcoal, pen, brush, and other media.

ART A309 Intermediate Metalsmithing and Jewelry 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A209.
Stacked with: ART A209 and ART A409.
Special Fees.
Special Note: May be repeated for credit.
Further investigation of material processes and techniques for metalsmithing and jewelry with more emphasis on design.

ART A311 Intermediate Sculpture 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A211.
Stacked with: ART A211 and ART A411.
Special Fees.
Special Note: May be repeated for credit.
Further exploration of sculptural concepts and processes with emphasis given to the aesthetics and history of modern sculpture. Continued development of construction skills with access to more advanced machine tools and processes.

ART A312 Intermediate Watercolor Painting 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A212.
Stacked with: ART A212 and ART A412.
Special Fees.
Special Note: May be repeated for credit.
Continued and intensified development of expressive skills in watercolor painting. Reviews techniques and refines material usage with the emphasis on individual approaches to pictorial and conceptual problems in watercolor.

ART A313 Intermediate Painting 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A213.
Stacked with: ART A213 and ART A413.
Special Fees.
Special Note: May be repeated for credit.
Continued and intensified development of expressive skills in painting. Reviews techniques and refines materials usage with the emphasis on individual approaches to pictorial and conceptual problems in oil and acrylic.

ART A315 Intermediate Printmaking 3 CR
Contact Hours: 0 + 6
Registration Restrictions: 6 credits of ART A215.
Stacked with: ART A215 and ART A415.
Special Fees.
Special Note: May be repeated for credit.
Expands on processes with advanced and more critical applications of printmaking techniques. Continued development of individual creative concepts in image making is encouraged.

ART A323 Color Photography 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A224 or JPC A224.
Crosslisted with: JPC A323.
Special Fees.
Special Note: May be repeated for credit.
Advanced techniques in color transparencies, color negatives, and color printing.

ART A324 Intermediate Photography 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A224 or JPC A224.
Crosslisted with: JPC A324.
Special Fees.
Further development of photographic skills. Includes photographic perception of awareness, ideas and concepts, and the 'fine print'.

ART A330 Photographic Design 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A324 or JPC A324.
Special Note: May be repeated for credit.
Photographic study of the elements of design. Addresses line, value, texture, shape, and color two-dimensionally and emphasizes exploration in the use of materials.

ART A331 Experimental Photography 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A324 or JPC A324.
Crosslisted with: JPC A331.
Special Fees.
Special Note: May be repeated for credit.
Exploration of various special effects and techniques. Emphasizes creativity using various photographic processes.

ART A351 Typography 3 CR
Contact Hours: 0 + 6
Registration Restrictions: The 18 credit lower division Art core is required for Art majors and recommended for others.
Special Note: May be repeated once for credit.
Copyfitting, typesetter communication, and design.

ART A352 Advanced Graphic Design 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A252.
Special Note: May be repeated once for credit.
Design problems, corporate identity programs, signage, annual reports, book design and architectural supergraphics.

ART A354 Advertising Design 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A252.
Special Note: May be repeated once for credit.
Creative solutions to advertising problems.

ART A355 Airbrush 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A205.
Special Note: May be repeated once for credit.
Airbrush techniques. Includes use and maintenance of equipment, freehand masking techniques, and introduces photo retouching.

ART A356 Drawing for Illustration 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A307.
Special Fees.
Special Note: May be repeated for credit.
Refinement of drawing skills from live models for application to illustration and graphic design projects.

ART A357 Computer Art and Design 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Special Fees.
Special Note: May be repeated once for credit.
Introduces techniques and tools pertinent to the graphic designer.

ART A358 Children's Book Illustration 3 CR
Contact Hours: 0 + 6
Special Note: May be repeated once for credit.
Techniques and materials. Course work includes conceptualization and composition of visuals for individual pages, book layout, discussion of market presentation and portfolio organization.

ART A361 History of Graphic Design 3 CR
Contact Hours: 3 + 0
Prerequisites: ART A261 and ART A262.
Special Fees.
Overview of the progression of graphic design from the invention of writing to current approaches.

ART A362 History of Modern Art 3 CR
Contact Hours: 3 + 0
Prerequisites: ART A262.
Special Fees.
Development of mid to late 19th century and 20th century art. Various visual arts are placed within the social and cultural contexts of this period.

ART A363 History of Contemporary Art 3 CR
Contact Hours: 3 + 0
Prerequisites: ART A262.
Special Fees.
Analysis of the work and thought of major artists in painting and sculpture from post-World War II to the present. The relationship of visual art to social and cultural trends during this period will be examined.

ART A364 Italian Renaissance Art 3 CR
Contact Hours: 3 + 0
Prerequisites: ART A261.
Special Fees.
Renaissance art from early Florentine beginnings to the high Renaissance of Venice.

ART A365 Native Art of Alaska 3 CR
Contact Hours: 3 + 0
Special Fees.
Art forms of the Eskimo, Indian, and Aleut; prehistory to the present.

ART A366 History of Asian Art 3 CR
Contact Hours: 3 + 0
Prerequisites: ART A261.
Special Fees.
Visual arts of Asiatic culture; prehistoric to the present. This course surveys selected works of painting, sculpture, architecture and other visual arts in relation to the culture in which they were produced.

ART A367 History of Photography 3 CR
Contact Hours: 3 + 0
Crosslisted with: JPC A367.
Course Attributes: GER Fine Arts and GER Humanities
Special Fees.
Evolution of photography; 1816 to the present. This course surveys style, approach, content and form of the major trends in Europe and America.

ART A368 Artists' Views 3 CR
Contact Hours: 3 + 0
Special Fees.
Work and philosophy of local contemporary artists.

ART A371 Intermediate Surface Design 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A271.
Stacked with: ART A271 and ART A471.
Special Note: May be repeated for credit.
Continued examination of resist dyeing as a culture-rooted art and its place in the contemporary fiber movement. Bound resists: Shibori, fold dyeing, Plangi and Tritik are utilized as the basis for individual expression and design resolution.

ART A372 Intermediate Fiber Structure 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A272.
Stacked with: ART A272 and ART A472.
Special Note: May be repeated for credit.
Explores traditional percussion textiles such as paper and felt making as interpreted in a contemporary context.

ART A373 Intermediate Woven Forms 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A273.
Stacked with: ART A273 and ART A473.
Special Note: May be repeated for credit.
Emphasis on advanced floor loom techniques for the production of contemporary art.

ART A392 Seminars and Selected Topics in Art 1-6 CR
Contact Hours: 1-6 + 0
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Special Fees.
Lecture course dealing with current issues in the arts. Seminars on various topics will depend upon student and faculty interest as well as areas of faculty expertise. Course may be of interest to students desiring assistance in developing their thesis topic and statement.

ART A401 Advanced Handbuilt Ceramics 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A301.
Stacked with: ART A301.
Special Fees.
Special Note: May be repeated once for credit.
Clay as a sculpture medium. Emphasis on the ceramic process as a vehicle for personal statement. Includes large-scale, architectural freestanding installation projects. Low fire through high fire clay body, slip, and glaze development. Kiln design and firing.

ART A402 Advanced Wheelthrown Ceramics 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A302.
Stacked with: ART A302.
Special Fees.
Special Note: May be repeated once for credit.
History and aesthetics of functional pottery as a vehicle for personal statement. Includes low through high fire clay body, slip, and glaze development. Kiln design and firing.

ART A405 Experimental Drawing 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A305.
Stacked with: ART A105, ART A205, and ART A305.
Special Fees.
Special Note: May be repeated for credit.
Investigate the development of ideas through experimentation with contemporary techniques and materials in drawing.

ART A409 Advanced Metalsmithing and Jewelry 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A309.
Stacked with: ART A209 and ART A309.
Special Fees.
Special Note: May be repeated for credit.
Continued investigation of materials and processes with an introduction to hollowware skills and forging.

ART A411 Advanced Sculpture 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A311.
Stacked with: ART A211 and ART A311.
Special Fees.
Special Note: May be repeated for credit.
Advanced exploration of sculptural concepts and processes with emphasis given to the aesthetics and history of contemporary sculpture. Continued development of construction skills with access to more advanced machine tools and processes including welding.

ART A412 Advanced Watercolor Painting 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A312.
Stacked with: ART A212 and ART A312.
Special Fees.
Special Note: May be repeated for credit.
Individual ideas, experimentation, and techniques in watercolor painting. Emphasizes stylistic consideration, and individual expression; exhibition procedures are included.

ART A413 Advanced Painting 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A313.
Stacked with: ART A213, ART A313, and ART A414.
Special Fees.
Special Note: May be repeated once for credit.
Individual ideas, experimentation, and techniques in painting.

ART A414 Senior Painting Projects 3 CR
Contact Hours: 0 + 6
Registration Restrictions: 6 credits of ART A413.
Stacked with: ART A413.
Special Fees.
Special Note: May be repeated once for credit.
Individualized development of imagery and techniques.

ART A415 Advanced Printmaking 3 CR
Contact Hours: 0 + 6
Registration Restrictions: 6 credits of ART A315.
Stacked with: ART A215 and ART A315.
Special Fees.
Special Note: May be repeated for credit.
Individual development of techniques and creative process. Includes individual portfolio development.

ART A418 Methods: Art in the Elementary School 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A336.
Registration Restrictions: All General Education Requirements and admission to the School of Education.
Crosslisted with: ED A418.
Special Fees.
Methods of teaching art principles, procedures and materials for the elementary school level. Explores a wide variety of art media basic to elementary art curricula. Students will be responsible for developing and evaluating curriculum activities.

ART A423 Advertising and Public Relations Photography 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A324 or JPC A324.
Crosslisted with: JPC A423.
Special Note: May be repeated for credit.
Emphasizes lighting for form, texture, and separation as advertising. Industrial and public relations photography is explored.

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 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, stitchery, fiber sculpture, and sculptural techniques.

ART A458 Illustration III 1-6 CR
Contact Hours: 0 + 2-12
Stacked with: ART A459.
Emphasizes developing illustrations for a portfolio. Concerns will be for concepts and design of imagery, refinement of technical skills, and personal interpretation.

ART A459 Illustration IV 1-6 CR
Contact Hours: 0 + 2-12
Prerequisites: ART A458.
Stacked with: ART A458.
Emphasizes developing illustrations for a portfolio. Concerns will be for concepts and design of imagery, refinement of technical skills, and personal interpretation.

ART A471 Advanced Surface Design 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A371.
Stacked with: ART A271 and ART A371.
Special Note: May be repeated for credit.
Development and refinement of individual problems in resist dyeing techniques.

ART A472 Advanced Fiber Structures 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A372.
Stacked with: ART A272 and ART A372.
Special Note: May be repeated for credit.
Development and refinement of individual problems in fiber structures with an emphasis on personalized imagery and techniques.

ART A473 Advanced Woven Forms 3 CR
Contact Hours: 0 + 6
Prerequisites: ART A373.
Stacked with: ART A273 and ART A373.
Special Note: May be repeated for credit.
Further development of advanced loom weaving techniques and refinement of personal imagery and problems related to approaches to fiber art.

ART A495 Practicum 1-6 CR
Contact Hours: 0-2 + 0-12
Registration Restrictions: Minimum of 3 credits of 400-level course work in selected content area and approval of area coordinator.
Special Note: A total of 6 credits may be applied toward a BA or BFA in Art degree.
Management and operation of art related environment for advanced students seeking a career in the arts. Provides marketable skills in material and building organization, mechanical operation, and operative student dynamics within a functioning art environment.

ART A498 **Individual Research** **1-6 CR**
Contact Hours: 0-2 + 0-12
Registration Restrictions: Minimum of 6 credits of upper-division course work in selected content area and approval of area coordinator.
Special Fees.
Special Note: A total of 6 credits may be applied toward a BA or BFA in Art degree. May be repeated twice for credit in any content area.
Individual art research focusing on professional development, conceptual growth and awareness, critical thinking, and/or advanced technical proficiency.

ART A499 **Thesis** **3 CR**
Contact Hours: 0 + 6
Registration Restrictions: Permission of BFA committee.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for a maximum of 6 credits.
One person exhibition.

APPLIED STATISTICS - AS

http://saturn.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
Registration Restrictions: MATH A105 or two years of high school algebra with a grade of C or higher or Math Placement Test.
Course Attributes: GER Quantitative Skills
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 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
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. SPSS-X will be used as a tool to aid calculations required for many of the techniques. Each student will be expected to complete a research project as part of the course requirement.

AS A310 **Regression Analysis** **3 CR**
Contact Hours: 3 + 0
Prerequisites: AS A307.
Simple and multiple regression, statistical inferences in regression, matrix formulation of regression, polynomial regression, ridge regression, nonlinear regression, and normal correlation models. SPSS-X will be used as a tool to aid calculations required for many of the techniques.

AS A312 **Analysis of Variance** **3 CR**
Contact Hours: 3 + 0
Prerequisites: AS A308.
Single-factor models, factor effects, nonparametric tests, two-factor models, random and mixed effects models, multifactor studies, analysis of covariance, and selected experimental designs. SPSS-X will be used as a tool to aid calculations required for many of the techniques.

AS A315 **Nonparametric Statistics** **3 CR**
Contact Hours: 3 + 0
Prerequisites: AS A307.
Nonparametric methods including the binomial test and sign test. Contingency tables with Chi-square tests and goodness-of-fit tests. Tests based on ranks including the Wilcoxon signed ranks test, Mann-Whitney U-test, Kruskal-Wallis test, Friedman test, and rank correlation. Kolmogorov-Smirnov type tests. SPSS-X will be used as a tool to aid calculations required for many of the techniques.

AS A400 **Selected Topics in Statistics** **3 CR**
Contact Hours: 3 + 0
Prerequisites: AS A252 or AS A307.
Special Note: Check schedules for specific offerings.
Topics in statistics including quality control, operations research, robust statistics, stochastic process, game theory, spectral analysis, Fourier analysis, and statistical packages.

AS A402 **Scientific Sampling** **3 CR**
Contact Hours: 3 + 0
Prerequisites: AS A252 or AS A307.
Sampling methods including simple random, stratified, systematic, and cluster. Special emphasis is placed on estimation procedures including ratio and regression methods, and topics selected from: allocations, direct sampling, inverse sampling, randomized response sampling, computer simulation of random variates, bootstrap, jackknife, and cross validation.

AS A407 **Time Series Analysis** **3 CR**
Contact Hours: 3 + 0
Prerequisites: AS A307.
Decomposition of time series, seasonal adjustment methods, and index numbers. Forecasting models including causal models, trend models, and smoothing models. Autoregressive (AR) forecasting models, moving average (MA) forecasting models, and integrated (ARIMA) forecasting models. SPSS-X and SAS computer software packages will be used.

AS A408 **Multivariate Analysis** **3 CR**
Contact Hours: 3 + 0
Prerequisites: AS A308.
Multivariate statistical methods including exploratory data analysis, geometrical interpretation of multivariate data, multivariate tests of hypothesis, multivariate analysis of variance, multivariate multiple regression, principal components, factor analysis, discriminant analysis, and cluster analysis. SPSS-X and SAS computer packages will be used.

AS A601 **Statistical Methods** **3 CR**
Contact Hours: 3 + 0
Prerequisites: AS A252.
Introduction to statistical experimentation and research methods, measurement, sampling, measures of central tendency, dispersion, regression and correlation, hypothesis testing, contingency tables and Chi-square tests, ANOVA, multiple regression, and nonparametric methods. SPSS-X will be used as a tool to aid calculations for many of the techniques. Each student will have a research project as a requirement.

AMERICAN SIGN LANGUAGE - ASL

Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030

ASL A121 **American Sign Language I** **3 CR**
Contact Hours: 3 + 0
Special Fees.
Introduces American Sign Language as used by deaf people. Diligent students can learn 350-500 signs, basics of ASL grammar and syntax. Exposure to psychosocial and subcultural aspects of deafness.

ASL A131 **American Sign Language II** **3 CR**
Contact Hours: 3 + 0
Prerequisites: ASL A121.
Special Fees.
Develops receptive and expressive skills in American sign language. Explanations and examples of 20 or more basic features of American Sign Language. Extensive student practice in class. Diligent students can learn 1,000 or more signs and idioms.

ASL A221 American Sign Language III 3 CR
Contact Hours: 3 + 0
Prerequisites: ASL A131.
Special Fees.
Continuation of insights into ASL structure. Exercises and practice, study of articles, and practical experience. Students practice advanced conversational skills in class. Use of previously learned vocabulary and grammar to explore 10 or more new features of ASL. Additional idioms and vocabulary.

ASL A231 American Sign Language IV 3 CR
Contact Hours: 3 + 0
Prerequisites: ASL A221.
Special Fees.
For experienced signers in the local community. Advanced instruction in ASL grammar, vocabulary, and conversational skills. Additional insights into deaf culture. Special practice with idioms and storytelling.

ASL A251 Small Group Lessons: Interpreting 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Minimum B average in ASL A121, A131 and A221 or equivalent knowledge of ASL, high average passing score on English Screening Exam. Commitment to study and participation.
Special Note: May be taken for up to 9 credits.
Flexible workshops covering basic theory and technique in American Sign Language interpreting. Includes skill building in listening, phrasing, self-correction, and exploration of ethical issues.

ASTRONOMY - ASTR

http://local.uaa.alaska.edu/~afjtp/physics.html
Offered through the College of Arts and Sciences
Engineering Building (ENGR), Room 339, 786-1238

ASTR A100 Survey of Astronomy 3 CR
Contact Hours: 3 + 0
Registration Restrictions: High school or college algebra.
A brief survey of the science of astronomy; historical development, study of the solar system and planets, the sun, stellar astronomy, interstellar matter, evolution of stars, galaxies, and cosmology.

ASTR A103 Introductory Astronomy I 4 CR
Contact Hours: 3 + 3
Registration Restrictions: High school algebra and trigonometry or equivalent.
Corequisite: ASTR A103L.
Course Attributes: GER Natural Sciences
Introduction to solar system astronomy; emphasis on most recent results from space research. History of astronomy, instruments, planetary motion, physical properties of planets, satellites, comets, and solar system evolution; includes laboratory.

ASTR A104 Introductory Astronomy II 4 CR
Contact Hours: 3 + 3
Prerequisites: ASTR A103.
Registration Restrictions: May be taken out of sequence, but not recommended.
Course Attributes: GER Natural Sciences
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 + 2-8
Grade Mode: Pass/No Pass.
Special Fees.
For pilots/owners to gain knowledge and experience in items of aircraft and engine maintenance that they may legally perform. Beneficial to people who intend to buy airplanes.

AT A100 Private Pilot Ground School 4 CR
Contact Hours: 3 + 2
Special Fees.
Special Note: Two hours of flight simulator required at Anchorage.
Preparation for FAA Private Pilot Written Exam. Includes aircraft engine operation and limitations, aircraft flight instruments, navigation, navigation computers, national weather information, and dissemination services. FAA Regulations, FAA Airman's Information Manual, radio communications, and radio navigation.

AT A101 Pre-Professional Flying 2 CR
Contact Hours: 1 + 3
Prerequisites: (AT A100 or concurrent enrollment).
Registration Restrictions: Possess FAA Class II Medical Certificate and department approval. Passing score on FAA Private Pilot Written Exam.
Special Note: Open entry-open exit. Course credit may be extended to holders of a Private Pilot Certificate through the successful completion of a Proficiency Flight Check administered by the Aviation Department.
Beginning flight instructions for students intending to become professional pilots. Covers stages I through III of the FAA approved commercial pilot training course outline.

AT A104 Alaska Bush Flying 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Private Pilot Certificate or higher rating.
Specialized instruction and discussion concerning unique flying conditions faced by Alaskan pilots. Basic aerodynamics, mountain flying, skis, floats, wheels, judgment of unimproved landing areas, characteristics of Alaska weather, external loads, airplane performance and limitations. Includes survival techniques.

AT A113 Commercial Flying Maneuvers 1 CR
Contact Hours: .5 + 1.5
Prerequisites: AT A101 and (AT A117 or concurrent enrollment).
Registration Restrictions: Department approval and passing score on FAA commercial pilot written exam.
Special Fees.
Special Note: Open entry-open exit.
Flight instruction to review basic private pilot maneuvers and to introduce the advanced flight maneuvers required of the commercial pilot. Covers stage IV of the FAA approved commercial pilot training course outline.

AT A114 Basic Instrument Flying .5 CR
Contact Hours: 0 + 1
Prerequisites: AT A113 and (AT A116 or concurrent enrollment).
Registration Restrictions: Department approval. and passing score on FAA instrument rating written exam.
Special Fees.
Special Note: Open entry-open exit.
Introduces precise airplane attitude control by instrument reference and covers basic instrument radio navigation. Covers Stage V of the FAA approved Commercial Pilot Training Course Outline.

AT A115 Commercial X-C Flying 1.5 CR
Contact Hours: .5 + 3
Prerequisites: AT A114.
Registration Restrictions: Department approval.
Special Note: Open entry-open exit.
Flight instruction and training for proficiency and experience in cross-country flying and night operations. Includes introduction to the complex airplane. Covers Stage VI of the FAA approved Commercial Pilot Training Course Outline.

AT A116 Instrument Ground School 4 CR
Contact Hours: 3 + 2
Registration Restrictions: AT A100 or passing score on FAA private pilot written exam.
Special Fees.
Special Note: Two hours of flight simulator required at Anchorage.
Instrument operation in detail. Attitude instrument flying, air traffic control and navigation facilities, pilot responsibilities, IFR en route charts, approach plates, airspace and airway route system.

AT A117 Commercial Ground School 4 CR
Contact Hours: 3 + 2
Registration Restrictions: AT A116 or passing score on FAA instrument rating written exam.
Special Fees.
Special Note: Two hours of flight simulator required at Anchorage.
Advanced work in topics discussed in AT 100 and AT 116. Also advanced aircraft engines, systems, performance and limitations, radar environment, high performance aircraft, emergency procedures, pilot responsibilities, and maneuvers.

AT A132 Survey of Aviation 3 CR
Contact Hours: 3 + 0
Detailed tracing of aviation history with particular emphasis on evolution of heavier-than-air machines. Development and present status of aviation industry, including world airlines.

AT A133 Aviation Law and Regulations 3 CR
Contact Hours: 3 + 0
History of laws influencing aviation. Case studies of aviation litigation. Organization, authority, responsibility, and functions of department of transportation, FAA, and Civil Aeronautics Board.

AT A134 Principles of Aviation Administration 3 CR
Contact Hours: 3 + 0
Introduction to business administration in general, airline, and manufacturing segments of aviation industry. Emphasis on theories of corporate organization and management. Future trends in aviation administration.

AT A135 Management: Airport 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A134.
Major functions of airport management including organization, zoning, financing, revenues and expenses, construction, expansion, evaluation techniques, and safety. Socio-economic effects of airports on communities.

AT A136 Management: Air Service Operations 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A134.
Functions of air service operations. Organization, financing, revenues and expenses, construction, expansion, safety, and relations with local agencies including airport management. Analysis of successful air service operations. Future trends.

AT A140 Air Traffic Control History 3 CR
Contact Hours: 3 + 0
FAA role in development of air transportation. Begins with early air mail service and continues to present-day air traffic service. Includes current areas of responsibility and internal working of air traffic control facilities.

AT A141 Aviation Weather 3 CR
Contact Hours: 3 + 0
Weather and its effects on air transport and air traffic control. Aviation weather reports and forecasts. Methods of weather information distribution including teletype, voice lines, broadcasts, and other systems of the U.S. Government and other airways users.

AT A142 Control Environment 3 CR
Contact Hours: 3 + 0
Basic navigation with emphasis on air navigations. Operations and function of radio aids to navigation (NAVAIDS). Basic airway structure. Use of air navigation charts, instrument approach plates, standard instrument arrival and departure routes, and Airman's Information Manual.

AT A143 Air Traffic Control Regulations 3 CR
Contact Hours: 3 + 0
Federal air regulations applying to air traffic control system. Introduction to regulations governing operation of air traffic control specialists within federal system.

AT A144 Air Traffic Control Airborne Lab 2 CR
Contact Hours: 1 + 3
Special Fees.
Designed for ATC majors. Explores flight planning, progress, and flight termination in both visual and instrument flight conditions. Includes 6-7 hours airborne demonstration.

AT A145 Principles of Flight 3 CR
Contact Hours: 3 + 0
Special Note: Six hours of flight simulator required. Fees payable through the Aviation Technology Division.
Basic aerodynamic principles. Theory of flight. Aircraft characteristics. Operation of aircraft in air traffic control system.

AT A146 Air Traffic Control Intern Program 4 CR
Contact Hours: 4 + 0
Prerequisites: AT A140 and AT A141 and AT A142 and AT A143.
Grade Mode: Pass/No Pass.
Special Fees.
Practical experience at FAA air traffic control facilities.

AT A170 ACFT Ground Operations and Safety 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Formal acceptance into AMT certificate or degree program.
Special Fees.
Covers safety in aviation maintenance including aircraft ground operation and fuel servicing. Presents policies and procedures of the aviation maintenance technology program, UAA and the FAA.

AT A171 Basic Aerodynamics 3 CR
Contact Hours: 3 + 0
Prerequisites: (AT A170 or concurrent enrollment).
Registration Restrictions: Formal acceptance into AMT certificate or degree program.
Deals with the theory of aerodynamics and factors affecting flight of heavier than air, fixed and rotary wing aircraft. Emphasizes aircraft weight and balance, aircraft structures, aerodynamics, theory of flight and aircraft rigging.

AT A172 Publications, Regulations and Records 3 CR
Contact Hours: 3 + 0
Prerequisites: (AT A170 or concurrent enrollment).
Registration Restrictions: Formal acceptance into AMT certificate or degree program.
Covers the government's involvement in aviation maintenance, and FAA Regulations regarding aviation maintenance and approved training programs. Emphasizes the use of maintenance publications, maintenance forms and records, and technicians' privileges and limitations.

AT A173 ACFT Electrical Hardware 3 CR
Contact Hours: 2 + 2
Prerequisites: (AT A170 or concurrent enrollment) and (AT A172 or concurrent enrollment) and (AT A174 or concurrent enrollment) and (AT A174L or concurrent enrollment) and (PHYS A110 or concurrent enrollment).
Special Fees.
Identifies and explains the use, operation and servicing of aircraft electrical components such as switches, relays, fuses, other circuit protection devices, wires, and connectors. Installation, testing, inspection and troubleshooting of these components is also covered.

AT A174 ACFT DC Electrical Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A055 and (AT A170 or concurrent enrollment).
Corequisite: AT A174L.
Covers derivation and application of basic DC electrical concepts, definitions and laws. Introduces passive electrical components, schematic symbols and electrical wiring diagrams, and covers applications of DC electrical concepts to aircraft batteries and power generation and distribution systems.

AT A174L ACFT DC Electrical Systems Lab 1 CR
Contact Hours: 0 + 3
Prerequisites: MATH A055 and (AT A170 or concurrent enrollment).
Corequisite: AT A174.
Special Fees.
Deals with the methods of safe and accurate measurement of DC electrical quantities using basic electrical test equipment. Connecting, testing, and operating a variety of circuit components, troubleshooting defective components, observing the characteristics of electrical components in test circuits, and wiring circuits from schematic diagrams. Installation, operation, testing and servicing of aircraft batteries and DC power generation and distribution systems is also covered.

AT A175 Drawing and Precision Measurement 2 CR
Contact Hours: 2 + 0
Prerequisites: (AT A170 or concurrent enrollment).
Registration Restrictions: Formal acceptance into AMT certificate or degree program.
Covers the theory and techniques involved in making and reading aircraft drawings and blueprints, along with precision measurement and use of blueprint information.

AT A176 ACFT Materials and Processes I 2 CR
Contact Hours: 2 + 2
Prerequisites: (AT A170 or concurrent enrollment).
Special Fees.
Covers aircraft cleaning, corrosion control, materials, and hardware; the selection of appropriate cleaning chemicals and processes; identification, selection and installation of aircraft hardware; and performance of aircraft processes such as heat treating and hardness testing.

AT A177 Recip Engine Theory 2 CR
Contact Hours: 2 + 0
Prerequisites: (PHYS A110 or concurrent enrollment) and (AT A170 or concurrent enrollment).
Introduces the theory of operation and construction of the internal combustion engine. Includes combustion processes, design rationale, cooling and lubrication of internal combustion reciprocating engines.

AT A178 Turbine Engine Theory 2 CR
Contact Hours: 2 + 0
Prerequisites: (PHYS A110 or concurrent enrollment) and (AT A170 or concurrent enrollment).
Covers the construction and operation of turbine engines. Thrust development and design and environmental factors that influence thrust, along with construction details from inlet to exhaust are covered for representative aircraft turbine engines.

AT A181 Fuel Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A176 and AT A177 and AT A178.
Corequisite: AT A181L.
Covers aircraft fuels, fuel/air mixtures, basic fuel systems and fuel metering devices. Applications of fuels and metering systems to aircraft and components of complex aircraft systems, such as tanks, valves, fuel lines, carburetors, fuel injection systems, turbo-chargers, and superchargers are included.

AT A181L Fuel Systems Lab 1 CR
Contact Hours: 0 + 3
Prerequisites: AT A176 and AT A177 and AT A178.
Corequisite: AT A181.
Special Fees.
Covers identification, handling, inspection, servicing and troubleshooting aircraft fuels, basic fuel systems and fuel metering devices, including complex aircraft systems, tanks, valves, fuel lines, carburetors, fuel injection systems, turbo-chargers, and superchargers.

AT A183 ACFT Electrical Machinery 2 CR
Contact Hours: 2 + 0
Prerequisites: AT A173 and AT A174 and AT A174L and AT A175 and (AT A183L or concurrent enrollment) and (AT A184 or concurrent enrollment) and (AT A184L or concurrent enrollment).
Identifies and explains the construction, inspection, operation and servicing of aircraft electrical components such as electric motors, generators, alternators, voltage controls, magnetos and ignition system components.

AT A183L ACFT Electrical Machinery Lab 1 CR
Contact Hours: 0 + 2
Prerequisites: AT A173 and AT A174 and AT A174L and AT A175 and (AT A183 or concurrent enrollment) and (AT A184 or concurrent enrollment) and (AT A184L or concurrent enrollment).
Special Fees.
Covers inspection, servicing, operation and testing of aircraft electrical components such as electric motors, DC generators, DC alternators, AC alternators, voltage regulators, reverse current relays, generator and alternator protection devices, magnetos and ignition system components.

AT A184 ACFT AC Electrical Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A174 and AT A174L and PHYS A110.
Corequisite: AT A184L.
Covers theory and application of basic concepts, definitions and laws governing circuits powered by an alternating current source. Includes AC waveforms, sources, components and circuits, electrical wiring diagrams, schematic symbols, and analysis of AC power generation and distribution systems used on aircraft.

AT A184L ACFT AC Electrical Systems Lab 1 CR
Contact Hours: 0 + 3
Prerequisites: AT A174 and AT A174L and PHYS A110.
Corequisite: AT A184.
Special Fees.
Covers measurement of AC electrical quantities with basic electrical test equipment. Includes connecting, testing and operating a variety of AC circuits, troubleshooting defective components, wiring circuits according to schematic diagrams and analyzing the measurements taken.

AT A185 Sheet Metal Structures 3 CR
Contact Hours: 3 + 0
Prerequisites: (AT A170 or concurrent enrollment).
Registration Restrictions: Formal acceptance into AMT certificate or degree program.
Corequisite: AT A185L.
Special Fees.
Introduces sheet metal, its properties and uses in fabrication of structural and nonstructural components of aerospace vehicles. Inspection techniques are addressed along with fabrication and repair processes of bending, cutting, forming, drilling, and riveting aluminum sheet metal parts.

AT A185L Sheet Metal Structures Lab 2 CR
Contact Hours: 0 + 5
Prerequisites: (AT A170 or concurrent enrollment).
Registration Restrictions: Formal acceptance into AMT certificate or degree program.
Corequisite: AT A185.
Special Fees.
Covers inspection, fabrication and repair of aircraft sheet metal structures including the processes of bending, cutting, forming, drilling and riveting aluminum sheet metal parts.

AT A186 Non-Destructive Inspection Methods 3 CR
Contact Hours: 2 + 2
Prerequisites: AT A176.
Special Fees.
Covers selection and use of appropriate non-destructive testing methods commonly employed in the aircraft industry such as visual, dye penetrant, magnetic particle, eddy current and ultrasound.

AT A187 Recip Engine Overhaul 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A172 and AT A175 and AT A177 and (AT A186 or concurrent enrollment).
Corequisite: AT A187L.
Covers the overhaul practices for aircraft internal combustion engines. Includes disassembly, cleaning, non-destructive testing, measurement, lubrication, and assembly of engines.

AT A187L Recip Engine Overhaul Lab 2 CR
Contact Hours: 0 + 5
Prerequisites: AT A172 and AT A175 and AT A177 and (AT A186 or concurrent enrollment) or.
Corequisite: AT A187.
Special Fees.
Provides practice in the performance of overhaul of aircraft internal combustion engine. Includes disassembly, cleaning, non-destructive testing, measurement, lubrication and assembly of internal combustion engines.

AT A211 Additional Aircraft Rating 1 CR
Contact Hours: .5 + 1
Registration Restrictions: Private or Commercial Pilot Certificate and department approval.
Special Note: Open entry-open exit. Course credit may be awarded to holders of various ratings through the successful completion of a Proficiency Flight Check administered by the Aviation Department.
Flight instruction for professional piloting students seeking additional ratings for their pilot certification, e.g. Float, multi-engine, type ratings, etc. Course completion requires awarding of rating sought.

AT A213 Intermediate IFR Flying .5 CR
Contact Hours: 0 + 1
Prerequisites: AT A115.
Registration Restrictions: Department approval.
Special Fees.
Special Note: Open entry-open exit.
Introduces instrument approaches, missed approaches and holding patterns. Covers Stage VII of the FAA approved Commercial Pilot Training Course Outline.

AT A214 Advanced IFR Flying .5 CR
Contact Hours: 0 + 1
Prerequisites: AT A213.
Registration Restrictions: Department approval.
Special Fees.
Special Note: Open entry-open exit.
Combines IFR Cross-Country procedures with increased flight proficiency required of an instrument rated pilot. Covers Stage VIII of the FAA approved Commercial Pilot Training Course Outline.

AT A215 Comm/IFR Review and Certification 1 CR
Contact Hours: .5 + 1.5
Prerequisites: AT A214.
Registration Restrictions: Department approval.
Special Fees.
Special Note: Open entry-open exit.
Reviews previous commercial and instrument flight maneuvers and develops proficiency required to take the Commercial Instrument Practical Flight Test. Covers Stage IX of the FAA approved commercial pilot training course outline.

AT A216 Instrument Flying 2 CR
Contact Hours: 1 + 2
Prerequisites: AT A101 and (AT A116 or concurrent enrollment).
Registration Restrictions: Department approval. Passing score on the FAA instrument rating written exam.
Special Note: Open entry-open exit. Course credit may be awarded to holders of an instrument rating through the successful completion of a Proficiency Flight Check administered by the Aviation Department.
Instrument flight instruction for students intending to become professional pilots. Covers Stages V, VII, and instrument portions of Stages VIII and IX of the FAA approved Commercial Pilot Training Course Outline and fulfills FAA requirements for the instrument airplane rating.

AT A217 Commercial Flying 3 CR
Contact Hours: 1 + 6
Prerequisites: AT A101 and AT A216.
Registration Restrictions: Possess an FAA class II medical certificate and department approval. Corequisite: at 117 and passing score on FAA commercial pilot written exam.
Special Note: Open entry-open exit. Course credit may be awarded to holders of a Commercial Pilot Certificate through the successful completion of a proficiency flight check administered by the Aviation Department.
Advanced flying maneuvers for the commercial pilot certificate. For students who have completed a significant number of hours towards the completion of a Commercial Pilot Certificate.

AT A221 CFI Ground School 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A215 or [AT A216 and AT A217].
Principles of teaching and learning, analysis of student motivation, flight training syllabus, flight instructor's role and responsibility, and aeromedical information. Performance and analysis of flight training maneuvers, advanced aerodynamics, fundamentals of instrument flight, flight training publications, and Federal Aviation Regulations.

AT A223 CFI Flying 2 CR
Contact Hours: 1 + 2
Prerequisites: (AT A221 or concurrent enrollment).
Registration Restrictions: Hold a commercial or ATP Certificate with appropriate medical certificate. Department approval required. Passing score on FAA CFI written exams.
Special Fees.
Special Note: Open entry-open exit. Course credit may be awarded to holders of a Certified Flight Instructor rating through the successful completion of a proficiency flight check administered by the aviation department.
Flight instruction for students intending to become Certified D Flight Instructors. Course completion requires awarding of Certified Flight Instructor certificate.

AT A225 CFI: Additional Rating 1 CR
Contact Hours: .5 + 1
Prerequisites: AT A223.
Registration Restrictions: Department approval required.
Special Note: Open entry-open exit. Course credit may be awarded to holders of additional flight instructor ratings through the successful completion of a proficiency flight check administered by the Aviation Department.
Flight instruction for students seeking additional ratings such as instrument and multi-engine to their Certified Flight Instructor Certificate. Course completion requires awarding of rating sought.

AT A229 ATP Ground School 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Comply with FAR 61.151 and 61.155.
Preparation for FAA ATP Written Exam. Includes far part 91 review, IFR and TERPS review, ILS review, ATC procedures review, and attitude instrument flying review. Covers Airman's Information Manual (AIM) and Jeppesen CR Series Computer, cross-country planning, performance charts, weight and balance, weather theory, interpreting high altitude weather charts, forecasts and applicable FARs.

AT A230 ATP Flying 2 CR
Contact Hours: 1 + 2
Prerequisites: (AT A229 or concurrent enrollment).
Registration Restrictions: Comply with FAR 61.151 and 61.155; Department approval. Passing score on the FAA ATP Written Exam.
Special Fees.
Special Note: Open entry-open exit. Course credit may be awarded to holders of an Airline Transport Pilot certificate through the successful completion of a proficiency flight check administered by the Aviation Department.
Flight instruction for students intending to become professional pilots. Course completion requires awarding of Airline Transport Pilot certificate.

AT A231 Search, Survival, and Rescue 3 CR
Contact Hours: 3 + 3
Prerequisites: AT A233.
Deals with situations that develop from lost or downed aircraft. Survey of principles of survival in all types of climates, with emphasis on Arctic environments. Organizations for search and rescue with emphasis on systems and operational methods used in Alaska.

AT A232 Aviation Navigation 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A100.
Registration Restrictions: Private Pilot Certificate or higher rating.
Earth's surface and mapping, aeronautical charts, fundamentals of navigation, navigational calculations and theory, and operation of ground and airborne navigational equipment. Future trends in navigation. Review for certified pilots.

AT A233 Aviation Safety 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Basic knowledge of aviation terminology.
Survey of aviation safety to identify primary causes of aviation accidents. Develops and evaluates safety programs. Roles of national transportation safety board and other agencies. Future concepts in aviation safety.

AT A235 Elements of Weather 3 CR
Contact Hours: 3 + 0
Definitions of weather elements and methods of measurement. Composition of atmosphere, description of atmospheric processes and their movement, general circulation of atmosphere, wind and secondary circulation, weather forecasts, and weather satellites.

AT A236 Management: Airline 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A134.
Study of airline organization and management. Analysis of classifications, management methods, governmental relationships, and financial positions. Functions of marketing in airline operations, market research, demand determination, and effects of FAA regulations.

AT A240 Operations in Flight Service Station 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A144 and AT A146.
Fundamentals of weather observation, use of FAA publications in flight planning, phraseologies, and radio frequencies used in air-ground communications. Use of Civil Notice to Airmen System and familiarization with positions of operation in FSS.

AT A241 Airport Traffic Control 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A144 and AT A146.
Basic techniques in operating ATC airport facilities in visual conditions. Includes operation of airport lighting systems, proper phraseology. Separation requirements, control techniques, and emergency actions. Preparation for operating simulated airport.

AT A242 Procedures for Control of Instrument Traffic (PCIT) I 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A140 and AT A141 and AT A142 and AT A143 and AT A145 and AT A146.
Registration Restrictions: Instrument pilots accepted.
Corequisite: AT A243.
Covers procedures of instrument traffic control in non-radar environment. Develops longitudinal, vertical, and lateral separation of air traffic. Introduction to airspace surrounding Weatherford International Airport.

AT A243 Procedures for Control of Instrument Traffic (PCIT) II 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A242.
Registration Restrictions: Extensive experience in ATC, airline transport rated certificate.
Special Fees.
Introduction to working problems of air traffic separation. Develops routine problem solving processes for near-midair collisions, and other emergency occurrences. Primarily lab situations designed to adapt student controller to real life ATC environment.

AT A244 Procedures for Control of Instrument Traffic (PCIT) III 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A243.
Special Fees.
Fundamental radar theory and systems operation in ATC. Hands-on time at FAA radar facilities and in classroom simulators. Develops techniques of radar equipment operations and manipulation (separation of air traffic, vectoring, speed control). Radar development in areas of ARTS-2 and EARTS-3 when available.

AT A245 Pilot/Controller Techniques 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Familiarity with aviation terminology and high school reading level recommended.
Explores methods of airport operations. Covers various levels of air traffic control ranging from uncontrolled bush strips to highly complex international airports.

AT A271 Aircraft Welding 4 CR
Contact Hours: 2 + 6
Grade Mode: Pass/No Pass.
Provides concentrated practical experience in the operation and use of portable and stationary gas welding equipment. Subjects include layout and repair techniques for tubular steel aircraft structures, brazing on secondary structure, and the inspection of welds on tubular steel structures.

AT A272 Aircraft Covering and Finishing 4 CR
Contact Hours: 2 + 6
Grade Mode: Pass/No Pass.
Special Fees.
Identification and application of aircraft fabrics and finishing materials. Approximately 80 percent of class time spent in lab. Students inspect, test, and repair aircraft fabrics, install fabric, and apply appropriate finishing materials to aircraft structures, wings, and flight control surfaces.

AT A273 Fluid Power Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A171 and AT A172 and AT A183 and AT A183L and AT A184 and AT A184L and AT A186.
Corequisite: AT A273L.
Introduces fluid power system basics of pressure, force, area, volume, flow and speed, and applications of fluid power to aircraft. Areas covered include fluids, seals, hoses, tubing, connections, component, identification and function, inspection, installation, and overhaul. System operation, inspection and troubleshooting are covered for hydraulic, pneumatic, and landing gear systems.

AT A273L Fluid Power Systems Lab 2 CR
Contact Hours: 0 + 5
Prerequisites: AT A171 and AT A172 and AT A183 and AT A183L and AT A184 and AT A184L and AT A186.
Corequisite: AT A273.
Special Fees.
Covers identification, installation, operation and servicing of fluid power systems and components such as fluids, seals, hoses, tubing, connections, pumps, valves, regulators, filters, reservoirs and actuators. Practice in system operation, inspection and troubleshooting are included for hydraulic, pneumatic, and landing gear systems.

AT A274 ACFT Electronics Systems 5 CR
Contact Hours: 5 + 0
Prerequisites: AT A183 and AT A183L and AT A184 and AT A184L.
Corequisite: AT A274L.
Covers the use of mechanical and electrical systems in sensing, communicating and displaying information, along with solid state and digital devices, sensors and special circuits used in instrumentation systems on aircraft.

AT A274L ACFT Electronic Systems Lab 1 CR
Contact Hours: 0 + 3
Prerequisites: AT A183 and AT A183L and AT A184 and AT A184L.
Corequisite: AT A274.
Special Fees.
Provides practice in creating, operating, testing and analyzing solid state and digital devices, sensors and special circuits used in instrumentation systems and the mechanical and electrical systems used in sensing, communicating and displaying information in aircraft.

AT A276 Propeller Systems 1 CR
Contact Hours: 1 + 1
Prerequisites: AT A171 and AT A172 and AT A175 and AT A177 and AT A178.
Special Fees.
Covers the installation, operation, performance testing and troubleshooting of aircraft propeller systems.

AT A277 Recip Engine Installation and Operations 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A171 and AT A181 and AT A181L and AT A183 and AT A183L and AT A187 and AT A187L.
Corequisite: AT A276 and AT A277L.
Covers the installation, operation, performance testing and troubleshooting of aircraft reciprocating engines.

AT A277L Recip Engine Installation and Operations Lab 2 CR
Contact Hours: 0 + 5
Prerequisites: AT A171 and AT A181 and AT A181L and AT A183 and AT A183L and AT A187 and AT A187L.
Corequisite: AT A276 and AT A277.
Special Fees.
Provides practice in the installation, operation, performance testing and troubleshooting of aircraft reciprocating engines.

AT A279 Turbine Engine Repair and Overhaul 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A172 and AT A175 and AT A181 and AT A181L and AT A186.
Corequisite: AT A279L.
Covers construction details of turbine engines from inlet to exhaust along with support systems, operational characteristics and repair and overhaul practices for typical engines.

AT A279L Turbine Engine Repair and Overhaul Lab 1 CR
Contact Hours: 0 + 3
Prerequisites: AT A172 and AT A175 and AT A181 and AT A181L and AT A186.
Corequisite: AT A279.
Special Fees.
Covers practice involved in the disassembly, assembly, inspection and repair of aircraft turbine engines. The proper use of technical data, appropriate tools and inspection devices is stressed along with special safety procedures related to the servicing, operation and repair of turbine engines.

AT A283 ACFT Auxiliary Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A177 and AT A178 and AT A274 and AT A274L.
Corequisite: AT A283L.
Covers operation, maintenance servicing, inspection and troubleshooting of auxiliary systems on aircraft. These include environmental control systems (heat, air-conditioning, pressurization, oxygen), ice and rain control systems, fire protection and associated indicating and warning systems.

AT A283L ACFT Auxiliary Systems Lab 1 CR
Contact Hours: 0 + 3
Prerequisites: AT A177 and AT A178 and AT A274 and AT A274L.
Corequisite: AT A283.
Special Fees.
Covers operation, maintenance servicing, inspection and troubleshooting of auxiliary systems on aircraft including environmental control systems (heat, air-conditioning, pressurization, oxygen), ice and rain control systems, fire protection and associated indicating and warning systems. Practice is provided in operating, servicing, and troubleshooting systems using system schematics, wiring diagrams and maintenance information.

AT A285 Bonded Structures 4 CR
Contact Hours: 4 + 0
Prerequisites: (AT A170 or concurrent enrollment).
Corequisite: AT A285L.
Covers the theory of and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.

AT A285L Bonded Structures Lab 1 CR
Contact Hours: 0 + 4
Prerequisites: (AT A170 or concurrent enrollment).
Corequisite: AT A285.
Special Fees.
Provides practice in the fabrication, inspection and repair of bonded structures including plastics, fabric covering, honeycomb structures, and advanced composite structures, and painting.

AT A286 ACFT Materials and Processes II 2 CR
Contact Hours: 1 + 2
Prerequisites: AT A172 and AT A176.
Special Fees.
Covers theory of and techniques used in the repair of aircraft steel structures, and certain aluminum, magnesium and titanium components.

AT A289 Turbine Engine Installation and Operations 2 CR
Contact Hours: 2 + 0
Prerequisites: AT A183 and AT A183L and AT A276 and AT A279 and AT A279L.
Corequisite: AT A289L.
Covers the installation, operation, performance testing and troubleshooting of aircraft turbine engines.

AT A289L Turbine Engine Installation and Operations Lab 2 CR
Contact Hours: 0 + 4
Prerequisites: AT A183 and AT A183L and AT A276 and AT A279 and AT A279L.
Corequisite: AT A289.
Special Fees.
Provides practice in the installation, operation, performance testing and troubleshooting of aircraft turbine engines.

AT A290 Selected Topics in Aviation Technology 1-6 CR
Contact Hours: 0-6 + 0-12
Registration Restrictions: Department permission required.
Provides theoretical and/or experiential learning in all areas of Aviation Technology (aviation maintenance, professional piloting, aviation administration, and air traffic control). Specific course content is determined by current industry trends and student needs. Emphasizes identification, summarization, and application of current technical information by theoretical and/or experiential learning.

AT A295 Aviation Internship I 1-3 CR
Contact Hours: 0 + 5-15
Registration Restrictions: Grade of C or better in 12 credits of Aviation Technology (AT) classes. Proof of accident insurance required.
Special Note: Students must apply to the Aviation Technology Division to arrange for industry placement prior to course enrollment.
Places students in generalized aviation related work activities for purpose of introducing the students to the aviation industry. Direct supervision by aviation industry professionals and program faculty.

AT A331 Human Factors in Aviation 3 CR
Contact Hours: 3 + 0
Registration Restrictions: AAS in aviation field or advanced airman certificate.
Students will become familiar with the following aspects of human factors: the meaning of human factors, human error, fatigue, body rhythms and sleep, fitness and performance, vision and visual illusions, motivation and leadership. Communication: language and speech, attitudes and persuasion, training and training devices, documentation, displays and controls, space and layout, the aircraft cabin and its human payload.

AT A332 Transport Aircraft Systems 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Certificate, degree or professional experience in piloting, maintenance, administration, or air traffic control.
Describes and examines the components of transport aircraft systems, their design, performance, capabilities, limitations, interrelationships, and contribution to the operation, safety, efficiency and economy of the aircraft.

AT A361 Federal Aviation Administration Inspection Authorization 3 CR
Contact Hours: 3 + 0
Registration Restrictions: FAA mechanic certificate, and airframe and power plant license.
Certified, experienced aviation maintenance technicians will become familiar with the privilege, limitations, authority and responsibilities of FAA inspection authorized mechanics. They will become proficient in the use of required data (regulations, specifications, service information, advisory circulars, etc.) and the application of that data to decisions involving airworthiness of certified products.

AT A362 Aerodynamics and Flight Performance 4 CR
Contact Hours: 4 + 0
Prerequisites: MATH A108 and PHYS A110.
Students will learn principles and applications of the following aspects of aerodynamics and flight performance: basic aerodynamics, airplane performance, high speed aerodynamics, stability and control and operating strength limitations.

AT A363 Aerodynamics and Flight Performance Laboratory 4 CR
Contact Hours: 0 + 8
Prerequisites: (AT A362 or concurrent enrollment).
Students will conduct formal laboratory experiments that demonstrate aerodynamic principles and that illustrate and find solutions for airflow problems. During this time, they will also develop a research project in the area of airflow, aerodynamics, or aircraft performance.

AT A364 Avionics Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: ET A128 or [AT A274 and AT A274L].
Covers the fundamentals of design, installation, operation, testing and maintenance of airborne communication, navigation, instrument, and auto flight systems.

AT A367 ACFT Assembly and Inspections 4 CR
Contact Hours: 4 + 0
Prerequisites: AT A185 and AT A185L and AT A273 and AT A273L and AT A277 and AT A277L and AT A279 and AT A279L and (AT A274 or concurrent enrollment) and (AT A274L or concurrent enrollment) and (AT A283 or concurrent enrollment) and (AT A283L or concurrent enrollment).
Corequisite: AT A367L.
Covers rules and procedures for performance of scheduled and non-scheduled aircraft inspections. Includes researching regulations and data, and planning, performing and recording findings of inspections. Also includes procedures for jacking and weighing of aircraft and disassembly, balancing, reassembly, and rigging of aircraft assemblies and flight controls and evaluating the condition of aircraft, engines and systems to determine airworthiness.

AT A367L ACFT Assembly and Inspections Lab 2 CR
Contact Hours: 0 + 6
Prerequisites: AT A185 and AT A185L and AT A273 and AT A273L and AT A277 and AT A277L and AT A279 and AT A279L and (AT A274 or concurrent enrollment) and (AT A274L or concurrent enrollment) and (AT A283 or concurrent enrollment) and (AT A283L or concurrent enrollment).
Corequisite: AT A367.
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 A420 Overview of U.S. Civil Aviation 6 CR
Contact Hours: 6 + 0
Registration Restrictions: AAS in aviation discipline or advanced aviation professional certificate.
Advanced study of U.S. Civil aviation history, regulations, airspace, airports, communication and navigation systems, air traffic control, flight service, airman certification, general aviation, air carriers, manufacturing and product certification, maintenance, weather and safety. Students analyze U.S. Air transport system; identify strengths, weaknesses and areas and methods for improvement.

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 A464 Advanced Avionics Systems 4 CR
Contact Hours: 4 + 0
Prerequisites: AT A364 or ET A340.
Includes design, installation, operation, testing and maintenance of advanced avionics in use for instrumentation, navigation, communication, flight management and automatic control of aircraft and auxiliary systems. Also covers digital avionics, on-board computers and integrated flight management, performance management, indication and warning and autoflight systems.

AT A490 Advanced Topics in Aviation Technology 1-6 CR
Contact Hours: 0-6 + 0-12
Registration Restrictions: Department permission required.
Provides advanced theoretical and/or experiential learning in all areas of Aviation Technology (aviation maintenance, professional piloting, aviation administration, and air traffic control). Specific course content is determined by current industry trends and student needs. Emphasizes analysis, evaluation, and synthesis.

AT A495 Aviation Internship II 1-3 CR
Contact Hours: 0 + 5-15
Registration Restrictions: Grade of C or better in 12 credits of upper division courses, six of which must be aviation technology (AT) credit hours. Proof of accident insurance required.
Special Note: Students must apply to the Aviation Technology Division to arrange for industry placement prior to course enrollment.
Places students in specialized aviation related work experiences pertinent to educational program and future employment objectives, overseen by aviation industry professionals and program faculty. Complete a major industry project specific to the student's area of scholastic preparation.

ALASKA WILDERNESS STUDIES - AWS

http://www.bulletin.alaska.edu/aws/
Offered through the Community & Technical College
Eugene Short Building (ESB), Room 129, 786-4066

AWS A102 Nature Observation and Tracking 1-3 CR
Contact Hours: 2 + 2
Registration Restrictions: Good health.
Special Fees.
Special Note: Students expected to be in fairly good shape. Able to ski or hike daily 5 miles with a light pack. Includes one day and/or two day weekend field outings. May be taken more than once for credit.
Emphasis is on keen nature observation and investigative techniques, especially learning how to interpret signs (tracking) of our Alaskan wildlife. Field trips include studies of our state's mammal, bird, and plant species.

AWS A103 Introduction to Camping and Backpacking 3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: Five weekend field trips. May be taken more than once for credit.
Basic backpacking skills with an Alaskan emphasis. Covers equipment, trip planning, map and compass, campcraft, where to go, and outdoor safety. Designed for the beginner or those new to Alaska.

AWS A104 Back Country Skiing 1 CR
Contact Hours: 15 + 0
Special Fees.
Development of cross-country and back country touring skills and skiing techniques in outdoor Alaska in the Arctic environment.

AWS A105 Mountaineering I 3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: Class meets alternating Fridays. Weekend field trips twice monthly. May be taken more than once for credit.
Introduction to mountaineering for those with no or limited climbing experience. Instruction in equipment, knots, belay and rappel, ice axe use, and beginning rock and snow climbing with an emphasis on mountain safety.

AWS A106 Ice Climbing I 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Good physical condition to allow climbing in possible inclement weather.
Special Fees.
Special Note: May be taken more than once for credit.
Condensed introduction to joys and challenges of ice climbing. Non-terrifying and fun! Covers equipment, knots, belaying, rappelling, and ice climbing techniques. Two full days intense experience on the ice.

AWS A107 Rock Climbing I 1 CR
Contact Hours: 2 + 0
Registration Restrictions: Good physical condition to allow climbing in possible inclement weather.
Special Fees.
Special Note: May be taken more than once for credit.
Condensed introduction to joys and challenges of rock climbing. Non-terrifying and fun! Covers equipment, knots, belaying, rappelling, and rock climbing techniques. Two full days intense experience on the rocks.

AWS A109 Beginning Cross-Country Skiing 1 CR
Contact Hours: .5 + 2
Special Fees.
Special Note: Not repeatable for credit.
Techniques of cross-country and trail skiing, equipment, waxing, and poling.

AWS A111 Alaska Winter Survival 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Good physical condition to allow participation in overnight field trips in below freezing weather and snow conditions.
Special Fees.
Special Note: Three weekend field trips. May be taken more than once for credit.
Classroom and field training to prepare students for winter/Arctic survival. Covers preparation, cold weather injuries, avalanche safety, map and compass, shelter construction, signaling, fire starting, and general outdoor safety.

AWS A113 Alaska Marine Survival 1-3 CR
Contact Hours: 1-2 + 1-3
Special Fees.
Special Note: May be repeated for credit. Weekend field trips.
Preparation for serious survival situation on sea or coast. Survival aspects of cold water environment including safety and survival equipment, cold injuries, shelter, signaling, food procurement, and emergency flotation. All with a marine emphasis.

AWS A114 Winter and Alpine Backpacking 1 CR
Contact Hours: 15 + 0
Special Fees.
Special Note: May be taken more than once for credit.
Introduction to the skills and knowledge necessary for emergency survival. Survival gear, preparedness, emergency rations and health care, finding food, erecting shelter and building a fire.

AWS A115 Glacier School 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Good physical condition and backpacking experience.
Special Fees.
Special Note: Special fee for transportation. May be taken more than once for credit.
Covers basic skills for safe glacier travel, climbing, and camping. Emphasis on equipment, route finding, low angle snow and ice climbing, and crevasse rescue techniques. Classroom instruction and one week field school on glacier.

AWS A116 Discovering Wild Plants 3 CR
Contact Hours: 2 + 3
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Special Fees.
Introduces the flora of Alaska, its diversity and myriad uses. Emphasis will be on the edible, poisonous, and medicinal species. Growing wild plants as ornamentals for home and garden will be explored. The first section will cover the edible mushrooms.

AWS A118 Telemark Skiing 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Ski rentals available. Does not include lift tickets.
Basic telemark ski technique including classroom and on- snow training. Emphasis on techniques, safety, judgement, equipment, and skiing a variety of resort terrain and snow conditions.

AWS A120 Canoeing I 1 CR
Contact Hours: 1 + 0
Special Fees.
Special Note: May be taken more than once for credit.
Introductory skills in canoe handling in both flat and moving water. Selection and use of special equipment, food, and clothing. Application of safety and rescue procedures. Trip planning with emphasis on minimum environmental impact and camping techniques.

AWS A122 Rafting I 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Good health and basic swimming ability.
Special Fees.
Special Note: May be taken more than once for credit.
Introductory skills in raft handling in both flat and moving water. Selection and use of special equipment, food, and clothing. Application of safety and rescue procedures. Trip planning with emphasis on minimum environmental impact and camping techniques.

AWS A123 Beginning Sea Kayaking 1 CR
Contact Hours: 15 + 0
Special Fees.
Special Note: Kayak rentals available. Special fees will vary depending on equipment provided, transportation arrangements, field Contact Hours, pool time, and individual campus variables.
Introduces sea kayak paddle skills, basic rescue procedures, trip planning, equipment needs and options, and safety considerations. Held in classroom, pool, and on weekend field trips.

AWS A124 Gun & Hunting Safety 1 CR
Contact Hours: 0 + 0
Special Fees.
Special Note: Special fees will vary depending on equipment provided, transportation arrangements, and field contact hours.
Handgun and rifle safety covering types of firearms and ammunition, legal considerations, shooting skills, proper handling and storage, hunting safety, and game rules. MRA/ADF&G Hunter safety certificate awarded upon successful completion of class. Includes range time.

AWS A126 Dog Mushing 1 CR
Contact Hours: 15 + 0
Special Fees.
History of dog mushing, types of equipment, training, care and feeding of race dogs, freighting and racing. Hands-on practical experience.

AWS A127 Beginning Alpine Skiing 1 CR
Contact Hours: 1 + 0
Special Fees.
Special Note: May be taken more than once for credit.
Introduces downhill skiing. Includes turns, stops, and control techniques, equipment and safety. Classroom and slope time.

AWS A128 Scuba Diving 2 CR
Contact Hours: 2 + 0
Special Fees.
Special Note: May be taken more than once for credit.
Lectures on diving techniques and gear safety with emphasis on crisis situations, supplemented with work in pool and ocean environment. Diver's certificate given upon successful completion.

AWS A152 Beginning Sailing and Seamanship 1 CR
Contact Hours: 15 + 0
Special Fees.
Special Note: May be taken more than once for credit.
Hands-on sailing course with U.S. Coast guard licensed skipper-instructor. Includes "Solo" sailing.

AWS A190 Log Cabin Construction 1-3 CR
Contact Hours: 0 + 0
Techniques and skills of log cabin construction. Covers planning and organization, estimating costs, and major phases of log building construction including foundation, floor, walls, roof, Windows, doors and trim.

AWS A203 Advanced Backpacking 2 CR
Contact Hours: 2 + 0
Prerequisites: AWS A103.
Registration Restrictions: Ability to carry full pack for cross-country travel.
Special Fees.
Special Note: May be taken more than once for credit.
Advanced backpacking/trekking skills. Emphasis on planning, equipment, route selection/finding, logistics, navigation, general off trail trekking, and safety.

AWS A204 Ski Mountaineering 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Intermediate cross-country skiing skills. Winter backpacking and camping skills. Good physical condition and ability to carry overnight winter pack.
Special Fees.
Special Note: May be taken more than once for credit.
Back country skiing in the wilderness of Alaska's mountains. Covers equipment, avalanche awareness, telemarking, skiing with packs or sleds, and roped skiing.

AWS A205 Mountaineering II 3 CR
Contact Hours: 3 + 0
Prerequisites: AWS A105.
Special Fees.
Special Note: Weekend field trips twice monthly. May be taken more than once for credit.
Review of basics, climbing steep snow and rock, anchors, protection placement, glacier travel, low-moderate angle ice climbing, and introduction to leading.

AWS A215 Expedition Mountaineering 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: AWS A205.
Registration Restrictions: Students should be in good physical condition, able to carry heavy pack and relay supplies at altitudes of over 16,000 feet.
Special Note: May be taken more than once for credit.
Field course held on major Alaskan mountain. Course will emphasize route finding, decision making, group dynamics, judgment, high altitude climbing, and advanced mountaineering techniques to teach safe and successful expedition mountaineering.

BUSINESS ADMINISTRATION - BA

http://www.scob.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 or upper-division ECON 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 A105 Principles of Banking 3 CR
Contact Hours: 3 + 0
Designed for new personnel at any level. Foundation for most subsequent American Institute of Banking courses. Provides updated, broad perspective of banking industry and bank functions. Includes check processing, teller functions, deposits, trust services, bank bookkeeping, bank loans, and investments. Discussion of bank's role in community.

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
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
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
Students understand profit in business, issues of social responsibility, and forms of business ownership. Roles of management in specialized fields of human resources, finance, production and marketing. Students explore opportunities and requirements in several business positions as well as assess personal interests and capabilities.

BA A155 Personal Investments 3 CR
Contact Hours: 3 + 0
An in-depth course on investment of personal income with emphasis on investments, including stocks, bonds, mutual funds, banking, annuities, insurance, real estate, estate planning, and taxes.

BA A166 Small Business Management 3 CR
Contact Hours: 3 + 0
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 A206 Analyzing Financial Statements 3 CR
Contact Hours: 3 + 0
Special Fees.
Designed for lending personnel or management trainees with basic accounting knowledge. Tools and techniques necessary for evaluating financial condition and operating performance of modern business enterprises. Covers financial statement analysis, accounting and business funds flow. Also includes short-term liquidity and solvency, long-term financial strength, and asset utilization.

BA A216 Computer Reservation Training: SABRE 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A116.
Designed to train prospective travel industry personnel in the use of the SABRE computer reservation system. Covers fare pricing, booking and ticketing a complete passenger record as well as other vendor services.

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
For students with or without supervisory experience. Introduction to effective supervisor's role. Emphasizes development of insights and skills necessary to get things done through others by planning, organizing, motivating, and controlling. Practical experience in decision making approach to condemnatory situations facing supervisors.

BA A232 Fundamentals of Organizational Management 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A231.
Special Fees.
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.
Helps students develop financial decision making skills. Includes financial statement analysis, cash flow planning, capital asset expenditures planning, and methods of short-term and long-term financing.

BA A241 Business Law I 3 CR
Contact Hours: 3 + 0
Crosslisted with: JUST A241.
Introduces legal aspects of business activities. Emphasizes basic principles, institutions, and administration of law in contracts, employment, torts, property, agency, real estate, and insurance.

BA A242 Business Law II 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A241 or JUST A241.
Crosslisted with: JUST A242.
Emphasizes basic principles, institutions, and administration of law in suretyships, partnerships, corporations, trusts, bankruptcy, negotiable instruments and sale of goods.

BA A256 Financial Planning and Control 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A151 or BA A166.
Offered only at Kenai Peninsula College.
The overall plan stated in terms of costs and revenue. Foundations for effective budgeting, management tool prerequisites, goals, objectives, programming, structure, of budgeting systems, processes and budget cycle formulation, development, preparation, review, approval, implementation, and control.

BA A260 Marketing Practices 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A151.
Designed to give students a real-world view of basic marketing principles and practices. Emphasizes planning strategy and application of marketing concepts. Examines nature of marketing and its environment, selecting target markets, and developing a market mix: product, price, promotion, and distribution.

BA A261 Advertising and Sales Promotion 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A260.
Introduces advertising and sales promotion. Integrates theory and practice. Examines advertising role in today's complex society. Covers creation of advertising message, dynamics of media, and coordination of advertising and sales promotion with other marketing elements.

BA A262 Public Relations 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A260.
Special Fees.
Introduces role of public relations in today's society. Familiarizes students with strategies and tactics of public relations practice. Examines specialized areas such as communication and marketing concepts, planning, and use of public relations by corporations, governments, and nonprofit agencies.

BA A263 Practices in Consumer Behavior 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A260.
Provides students with usable understanding of consumer behavior; based on the belief that knowledge of factors influencing consumer behavior can be used to develop sound marketing strategy. Explores motivation, personality, lifestyle, decision making, and the impact of cross-cultural variations on consumer buying behavior.

BA A264 Personal Selling 3 CR
Contact Hours: 3 + 0
Designed for people with or without sales experience. Explores skills all individuals use to sell themselves, products, services, and ideas. Includes selling process, buyer behavior, communication, and selling as part of marketing mix.

BA A273 Introduction to Statistics for Business and Economics 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A110 and [MATH A107 or MATH A270].
Special Note: A student may apply no more than 3 credits from AS A252 or BA A273 toward graduation requirements for a baccalaureate degree.
Introduces statistics and probability with emphasis on the analysis of business and economic data. Includes descriptive statistics for univariate and bivariate data; elementary probability and sampling distributions; and estimation of means, proportions, and simple regression coefficients. Students will be introduced to one or more computer packages for statistical data analysis.

BA A285 Supervision/Management By Objectives 3 CR
Contact Hours: 3 + 0
Offered only at AVTEC in Seward through Kenai Peninsula College.
Covers small group leadership and management so the student can function effectively as a foreman, fire crew boss, or unit supervisor. Emphasizes goal accomplishment, including identification of goals, planning and evaluation.

BA A295 Internship in Business Administration 3 CR
Contact Hours: 0 + 9
Registration Restrictions: Department permission required. ENGL A111, COMM A111, MATH A105 or A107 recommended.
Grade Mode: Pass/No Pass.
Special Note: Course may be taken only once for credit.
Placement of students in generalized and specialized work environment where the integration of classroom theory with practical and related experience takes place for specific periods of time. Direct supervision by the employer, faculty and cooperative education department is provided during the student's work period.

BA A300 Organizational Theory and Behavior 3 CR
Contact Hours: 3 + 0
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Discusses literature of organizational theory; emphasizes theoretical concepts, organizational design, dynamics of formal and informal groups, communication in leadership, organizational development, organizational effectiveness, and social science research techniques.

BA A306 Real Estate Fundamentals (Principles) 3 CR
Contact Hours: 3 + 0
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Discusses principles of real estate, urban land economics, and governmental aspects of real property ownership and control. Surveys all elements of real estate ownership.

BA A310 Consumer Behavior 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A343.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Consumer-firm relationship is analyzed through the application of concepts drawn from contemporary behavioral science to concrete business cases and practices. Relevant concepts from fields of cultural anthropology, sociology, and psychology are applied to problems encountered in marketing to various consumer groups.

BA A323 Real Estate Appraising 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A306.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Special Note: Equivalent to Society of Real Estate Appraisers (SREA) 101 course.

Designed to train students in the techniques and art of real estate appraising. Studies of valuation procedures via the cost, market, and income approach to real estate value.

BA A325 Corporate Finance 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A201 and ACCT A202 and ECON A201 and ECON A202 and BA A273.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Covers different concepts and techniques of financial analysis and planning, time value of money, stocks and bonds valuation, risk and return, capital budgeting, leverage and capital structure, dividend policy, working capital management, different methods of financing including stocks, debt, convertibles, leasing, mergers and acquisitions. Students will be able to evaluate the performance of companies and understand the underlying factors that determine takeover activities, investment and financing decisions.

BA A326 Real Estate Appraisal Case Studies 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A323.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Special Fees.

Reviews basic residential appraisal techniques. Introduces sophisticated application techniques. Focuses on preparation of residential appraisal report. Examines appraisal process. Technical skills are developed through case studies, lectures, and class participation.

BA A327 Product Promotion Strategies 3 CR
Contact Hours: 3 + 0
Registration Restrictions: BA A343 recommended and College of Business & Public Policy majors must be admitted to upper-division standing.

Analysis of alternative persuasive communication strategies designed to promote consumer and/or industrial products or ideas. Includes determination of communication objectives, selection of media, brand positioning, media buying, campaign implementation, and measurement of promotion effectiveness.

BA A343 Principles of Marketing 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A201 and ACCT A202 and ECON A201 and ECON A202.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Role of marketing in society and economy. The business firm as a marketing system, and management of the firm's marketing effort.

BA A361 Human Resource Management 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A300.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Human resource practice in industry and the analysis of human resource structures, problems and trends. Includes recruiting, selecting, performance appraisal, training, compensation, labor and civil rights laws, interviewing, and testing.

BA A375 Statistics for Business and Economics 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A272 and BA A273.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Intermediate statistics and probability with emphasis on the analysis of business and economic data. Includes multivariate probability models; classical inferences for means, standard deviations, and proportions in one and two populations; analysis of variance; contingency tables; multiple regression, and nonparametric statistics. Statistical computer packages are extensively used.

BA A377 Operations Management 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A273 and MATH A272.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Management of the operations/production system with emphasis on quantitative analysis. Characteristics of systems, types of production systems, forecasting, planning and scheduling work, facility design and location, and selected topics in operations research will be covered. The student is expected to spend two hours each week utilizing the College of Business & Public Policy computer laboratory.

BA A425 Advanced Corporate Financial Problems 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A325 and CIOS A110.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

An in-depth consideration of corporate financial topics and problems that are covered in BA A325. Many cases related to the topics under consideration are assigned and discussed in class. The student is expected to spend two hours each week utilizing the College of Business & Public Policy computer laboratory.

BA A426 Financial Institutions 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A325 and CIOS A110.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

A comprehensive study of the functions, structures, delivery systems, efficiencies, problems and performance of financial institutions including banks, saving and loans associations, credit unions, investment companies, pension funds, endowment funds and trusts.

BA A427 International Finance 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A325 and CIOS A110.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

A study of foreign exchange determination and forecasting, risk exposures, and hedging and speculation techniques, international financing through Euro-equity and Eurobond markets, international investment and portfolio diversification, international cash management and capital budgeting, international banking, international debt problems and international taxes.

BA A441 Retailing Management 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A343.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

Factors governing successful store operation, including location, stock arrangement, buying and selling, advertising and display, merchandising, planning and control, fashion merchandising, personnel management, customer relations, recent trends, store problems and policies.

BA A445 Marketing Research 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A273 and BA A343.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.

A study of the influence of marketing research on the decision making process, effect on the executive who must use it, and uses and misuses. Emphasis on the cost versus the value of information for decision making. Problem for formulation, exploratory research, research design, basic observations and sampling requirements, data analysis, interpretation, and reporting. Research projects are conducted on actual marketing problems.

BA A447 International Marketing 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A343.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Emphasizes the planning, organizing, coordinating and controlling functions of international marketing management. Includes analysis of consumers and target markets, marketing research and promotion decisions applied to international markets.

BA A450 Investment Management 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A325 and CIOS A110.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
A study of the various concepts, techniques, and strategies of security investments. Securities including common stocks, preferred stocks, bonds, convertibles, swaps, mutual funds, closed-end funds, municipals, options, and futures are covered. Models based on fundamental and technical approaches of valuation and performance evaluation are discussed and applied to a portfolio project.

BA A460 Marketing Management 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A343.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Analysis of product, price, promotion and distribution decisions from a strategic marketing planning perspective. Emphasizes marketing decision models applied to profit and nonprofit organizations.

BA A461 Negotiations and Conflict Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Study of negotiation, power, and conflict management from analytical viewpoints. Topics include the application of negotiation and conflict management processes and methodology associated with international negotiations, human resource structures, and corporate merger. Computer exercises and role playing are included.

BA A462 Strategic Management 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A273 and BA A300 and BA A325 and BA A343 and BA A377.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Study of management of the total organization in a turbulent environment, integration of functional viewpoints, strategy formulation and implementation. Emphasis on both theory and case analysis.

BA A481 Applications in Management 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A300.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
An in-depth, hands-on examination of management topics and issues introduced in BA A300. Students are encouraged to develop their own management skills through case analysis role playing, in-class exercises, and projects that require interaction with practicing managers.

BA A488 The Environment of Business 3 CR
Contact Hours: 3 + 0
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Examination of the legal, political, social and cultural environments in which business operates; approaches to identifying and resolving ethical and other value-related dilemmas in management.

BA A489 Entrepreneurship and New Business Planning 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A462.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Conceptualizing and planning the new business; entrepreneurship and innovation in both new and established organizations. Stages in business growth and their implications for management. Each student is required to develop a detailed plan for a new business.

BA A490 International Comparative Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Emphasizes differences and similarities between business management concepts and practices across cultures and geographic boundaries. The perspective of a global economy is adopted.

BA A491 Selected Topics in Business 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Special Note: See schedule for specific title offerings.
Selected topics in business offered periodically at the discretion of faculty.

BA A495 Business Administration Internship 3 CR
Contact Hours: 0 + 9
Registration Restrictions: Permission of the department chair, College of Business & 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.

BA A601 Business Statistics and Data Analysis 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Graduate Standing.
Data identification, collection, and analysis and presentation of results. Basic statistical tools and models for problem analysis and decision making are presented in the manager's role in the organization. Emphasis is on the appropriate selection, use and interpretation of statistical models.

BA A603 Fundamentals of Finance 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A601.
Registration Restrictions: Graduate Standing.
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, mergers and acquisitions.

BA A604 Marketing Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Discusses the role of marketing in the society and economy. The business firm as a marketing system, management of the firm's marketing effort.

BA A606 Fundamentals of Production/ Operations Management 2 CR
Contact Hours: 2 + 0
Prerequisites: BA A601.
Registration Restrictions: Graduate Standing.
Discusses decision making process as it relates to operations management. Understanding assumptions and appropriate application of quantitative models; problem formulation and solution, interpretation of results, and application of appropriate personal computer software.

BA A616 Employment Law, Labor Law, and Arbitration 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Integration of historical, political, social, economic, and legal trends underlying substantive employment law covering human resource structures in the private and public sectors. Non-union, occupational groups in education, hospitals, government and private industry will be considered. The course includes role playing.

BA A617 Technology Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: 9 credits in management and fiscal areas of ESM program, or 9 credits beyond foundation courses in MBA program.
Crosslisted with: ESM A617.
Special Fees.
Issues and case studies of policy development, strategy, planning and management of technology in the overall corporate environment.

BA A619 Computer Simulation of Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A601 or ESM A620.
Crosslisted with: ESM A619.
Intensive study of simulation concepts and methods, introduction to major simulation languages. Survey of simulation applications in various disciplines.

BA A623 Total Quality Management 3 CR
Contact Hours: 3 + 0
Prerequisites: [BA A601 or ESM A620] and [BA A632 or ESM A601].
Crosslisted with: ESM A623.
Special Fees.
Brief history of the origins of modern quality management; review of basic tools for continuous quality improvement involving everyone in the organization. The organizational climate for continuous improvement. Survey of statistical tools for continuous quality improvement.

BA A625 Marketing of Business Products and Services 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing in the MBA or ESM programs.
Crosslisted with: ESM A625.
Marketing of business products and business advisory services to organizational customers including government and institutions. Business marketing environment, strategic planning, segmentation, organizational buying behavior, product planning and innovation, pricing, promotion, and physical distribution. Relationship marketing, service quality, customer satisfaction and value creation, and negotiation. Issues in business ethics, global context, and professional services. Cases in business marketing.

BA A631 Business Environment Analysis 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Completion of MBA foundation course requirements and graduate standing.
Introduction to the methodology of business environment scanning, analysis, and forecasting; survey of the current business environment. Impacts of globalization of competition and financial markets, technological change, changing political systems, regulation, demographics, social change, and other change factors on business. Examination of social responsibility, ethics, environmental protection and other accountability issues.

BA A632 Organizational Behavior and Human Resource Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
A detailed interdisciplinary study of those organizational behavior and human resource 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.
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.
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.
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.
Advanced financial analysis with focus on making effective financial decisions. Analysis of business finance cases.

BA A642 Entrepreneurship and Small Business Administration 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A631 and BA A632 and BA A635 and BA A636.
Nature and significance of entrepreneurship. Characteristics and role of small business. Development of a business idea into an operating enterprise; small business planning and management; transition to professional management.

BA A643 International Marketing 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A604.
Analysis of the marketing mix and marketing environment variables in international settings. Role and importance of product adaptation vs. Standardization, of cultures and their impact on the 4P's.

BA A645 Topics in Organizational Behavior 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A632.
A detailed examination of current topics in the organizational behavior area. Topic will be determined by contemporary trends in the business environment and/or student request, and will change from year to year.

BA A647 Negotiation and Dispute Settlement 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Analysis and comparison of negotiation and dispute settlement structures utilized between workers and managers as well as between sellers and buyers. Current and future developments in international negotiations, acquisition and merger, collective bargaining and alternative dispute settlement will be discussed. The course includes computer exercises and role playing.

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.
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.
Management research project, designed to integrate policy concepts, research methods, and practical problem solving techniques.

BA A681 Portfolio and Security Analysis 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A601 and BA A603 and CIOS A605.
Registration Restrictions: Graduate Standing.
Advanced models for investment management are developed and their applications to decision making are discussed. Emphasis is on investment decision making and portfolio analysis. Quantitative financial analyses of the institute of chartered financial analysts are also discussed.

BA A690 Current Topics in Business 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Faculty permission and graduate standing.
Special Note: May be repeated for credit with a change in subtitle.
Study of specific current issues, techniques, and trends affecting business.

BIOLOGICAL SCIENCES - BIOL

http://www.uaa.alaska.edu/biohome/biology.html
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
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
Special Fees.
Special Note: Primarily for non-science majors. Satisfies UAA general education and CAS Natural Science degree requirements.

Laboratory part of BIOL A102. Exercises are designed to illustrate principles and concepts developed in BIOL A102.

BIOL A104 Natural History of Alaska 3 CR
Contact Hours: 3 + 0
Crosslisted with: GEOL A104.
Special Note: Acceptable as elective credit only.

Surveys important biological, physical and geological features of Alaska, and their development over time. Includes study of major landforms, ecosystems, wildlife and people. Local area will be emphasized.

BIOL A105 Fundamentals of Biology I 4 CR
Contact Hours: 3 + 3
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
Special Note: One 3-hour lab per week. BIOL A105, A106, and A219 are core courses in biology and are prerequisites to most courses in biological sciences.

An introduction to the basic principles of biology as science; simple biological chemistry; cell biology; energy transformation; cellular reproduction; and genetics.

BIOL A106 Fundamentals of Biology II 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A105.
Corequisite: BIOL A106L.
Course Attributes: GER Natural Sciences
Special Note: One 3-hour lab per week. BIOL A105 and A106 are core courses in biology and are prerequisites to further courses in the biological sciences. BIOL A105 and A106 are required for BIOL A219.

A continuation of an introduction to the basic principles of biology for the science major. Anatomy, physiology, and behavior of plants and lower kingdoms. Overview of ecology.

BIOL A111 Human Anatomy and Physiology I 4 CR
Contact Hours: 3 + 3
Corequisite: BIOL A111L.
Course Attributes: GER Natural Sciences
Special Note: Accepted for biology major credit only by petition. Satisfies UAA general education and CAS natural science degree requirements for specified baccalaureate degree programs. One 3-hour lab per week.

An introduction to human structure and function. The integumentary, skeletal, muscular, nervous and endocrine systems are considered.

BIOL A112 Human Anatomy and Physiology II 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A111.
Corequisite: BIOL A112L.
Course Attributes: GER Natural Sciences
Special Note: Accepted for biology major credit only by petition. Satisfies UAA general education and CAS natural science degree requirements for specified baccalaureate programs. One 3-hour lab per week.

A continuation of BIOL A111. The circulatory, respiratory, digestive, excretory, reproductive and immune systems are considered.

BIOL A113 Lectures in Human Anatomy and Physiology I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Current Alaska registered nurse license and permission of both the associate dean of nursing and the course instructor.

BIOL A113 is the lecture portion of BIOL A111 without the laboratory.

BIOL A114 Lectures in Human Anatomy and Physiology II 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A111 or BIOL A113.
Registration Restrictions: Current Alaska registered nurse license and permission of both the associate dean of nursing and the course instructor.

A continuation of BIOL A113. BIOL A114 is the lecture portion of BIOL A112 without the laboratory.

BIOL A124 Biota of Alaska: Selected Topics 1-4 CR
Contact Hours: 1-4 + 0
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 A139 Introduction to Forestry 3 CR
Contact Hours: 3 + 0
Special Note: Community service course.

Survey course emphasizing basic concepts of forest management, utilization and conservation. Includes identity, characteristics and values of forest lands and forests. Covers cultural, ecological and technical conditions which influence use and management.

BIOL A150 Introduction to Marine Biology 4 CR
Contact Hours: 3 + 3
Special Note: Community service course.

An elementary course in marine natural history with emphasis on intertidal invertebrates and algae. Other topics will include seabirds, marine mammals, fish, bottom organisms, and plankton.

BIOL A201 Field Identification of Alaskan Flora 3 CR
Contact Hours: 2 + 3
Offered only at Kenai Peninsula College.
Special Note: Does not satisfy BA degree requirements.
Field plant biology outlining the methods of identification based on leaf shape, fruit and flower form, bark and habitat. Covers all species that can be identified in the field including the lichens, mosses and liverworts, soft water algae and fleshy fungi.

BIOL A219 Fundamentals of Biology III 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A105 and BIOL A106 and CHEM A105.
Corequisite: BIOL A219L.
Special Note: Core course for biology majors. One 3-hour lab per week.
A continuation of an introduction to the principles of biology for science majors. Emphasis on the morphology, systematics, and physiology of animals. Overview of evolution.

BIOL A223 Introduction to Fishes 4 CR
Contact Hours: 3 + 3
Registration Restrictions: Basic biology.
Offered only at Kodiak College.
Introduces anatomical physiology, classification and biology of fishes. Emphasizes the fishes of Alaska.

BIOL A240 Introductory Microbiology for Health Sciences 4 CR
Contact Hours: 3 + 3
Registration Restrictions: Concurrent enrollment in BIOL A112 or 8 hours in biology or chemistry.
Corequisite: BIOL A240L.
Special Fees.
Special Note: Recommended for associate and baccalaureate health science programs. Laboratory exercises generally require students to return to the lab to record experimental results after 24 hours, throughout the semester. Accepted for biology major credit only by petition.
General introductory microbiology and virology with emphasis on those areas relating to health sciences, including host parasite interactions, host defense mechanisms, and epidemiology.

BIOL A241 Lectures in Introductory Microbiology for Health Sciences 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Concurrent enrollment in BIOL A112, or 8 hours in biology or chemistry.
Special Note: BIOL A241 is the lecture part of BIOL A240 only; it does not have a lab session. Recommended for students who have previously received credit for a microbiology course and who need to update their understanding of health science-related microbiology. Not open to students who have completed BIOL A240 or BIOL A340 during the previous five years.
Lectures in general introductory microbiology and virology with emphasis on those areas relating to health sciences, including host parasite interactions, host defense mechanisms, and epidemiology.

BIOL A252 Principles of Genetics 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A219 and CHEM A105 and MATH A107.
Corequisite: BIOL A252L.
Special Note: Core course for biology majors. One 3-hour lab per week.
Principles of inheritance in prokaryotes and eukaryotes and physicochemical properties of genetic systems.

BIOL A292 Plant Lore of Kachemak Bay 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Identification of plants in biotic systems ranging from spruce/hardwood forests and marine areas to bogs. Emphasis on traditional medicinal plants of Native and non-Native cultures.

BIOL A308 Principles of Evolution 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A252 and BIOL A371.
Special Note: Core course for biology majors.
An introduction to the mechanisms of, and evidence for, the evolution of living systems. The coding and transmission of genetic information in populations, populations variability, change and stabilization.

BIOL A309 Biogeography 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A308.
Ecological basis and historical patterns of the distribution of plants and animals on a worldwide basis. Current theories regarding the origin of these distributions are examined.

BIOL A310 Animal Physiology 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A106 and CHEM A106.
Special Note: Satisfies physiology core curriculum requirement for biology majors.
Cellular and system physiology of animals, with emphasis on vertebrate physiology.

BIOL A327 Parasitology 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A105 and BIOL A106 and BIOL A219.
Special Fees.
The life history and ecology of parasites of medical significance and economic importance, including diagnosis and control. Emphasis on North American parasites.

BIOL A331 Systematic Botany 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A106.
Special Note: Saturday field trips. Offered alternate years.
Identification and classification of vascular plants with an emphasis on circumpolar flora; discussion of taxonomic principles and both classical and experimental methods of taxonomic research.

BIOL A333 Biology of Non-Vascular Plants 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A106.
Special Fees.
Special Note: Offered alternate fall semesters.
Comparative study of structure, development, phylogenetic trends, and life histories of the major groups of algae, fungi and bryophytes.

BIOL A334 Biology of Vascular Plants 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A333.
Special Note: Offered alternate spring semesters.
Comparative study of morphology, developmental anatomy, phylogenetic trends, and life histories of the major groups of vascular plants.

BIOL A340 General Microbiology 5 CR
Contact Hours: 3 + 6
Prerequisites: BIOL A106.
Registration Restrictions: 8 additional biology credits.
Corequisite: BIOL A340L.
Special Note: Two 3-hour labs per week. Core course for BS biology majors. Offered spring semesters.
Biology of prokaryotic and eukaryotic microorganisms and viruses, their relationships to other organisms and to the ecosystem.

BIOL A352 Human Genetics 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A252.
Special Note: Offered as warranted by demand.
An introduction to human genetics with emphasis on medical and social aspects. Included will be the genetics of normal human traits, biochemical and cytogenetic diagnosis of hereditary diseases, and genetic screening and counseling.

BIOL A361 Cell Biology 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A252 and (CHEM A321 or concurrent enrollment).
Special Note: Satisfies physiology core course requirement for biology majors.
Detailed structure, including ultrastructure, and function of the cell. Isolation, composition, and biochemical properties of cell organelles.

BIOL A362 Cell Biology Laboratory 3 CR
Contact Hours: 1 + 6
Prerequisites: BIOL A361.
A laboratory course designed to give experience in cell and tissue culture, analysis of subcellular components and techniques involving nucleic acids and proteins.

BIOL A371 Principles of Ecology 4 CR
Contact Hours: 3 + 3
Prerequisites: [BIOL A219 and CHEM A105] and [AS A252 or AS A307].
Corequisite: BIOL A371L.
Special Note: Core course for biology majors. One 3-hour lab per week.
Analyses of energy and material balance. Adaptations to extreme environments. Population attributes, dynamics and interactions. Factors controlling community composition and change. Ecosystem function including elemental cycling.

BIOL A373 Environmental Biology 3 CR
Contact Hours: 3 + 0
Prerequisites: [ENVI A201 and ENVI A202] or BIOL A219.
Advanced environmental biology dealing with human population growth and the impact on environmental degradation and resource depletion.

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 A390 Intermediate Selected Topics in Biology 1-4 CR
Contact Hours: 1-4 + 0
Registration Restrictions: 12 credits in biology; faculty permission required.
Special Note: See schedules for specific titles to be offered.
Detailed coverage of a selected topic in biology.

BIOL A403 Microtechnique 4 CR
Contact Hours: 2 + 6
Prerequisites: BIOL A105 and BIOL A106.
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 A219 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 A416 Physiology and Biochemistry of Plants 4 CR
Contact Hours: 4 + 0
Prerequisites: BIOL A219 and CHEM A322.
A study of the physiology and biochemistry of principal plant processes including plant water relations, transport, and carbon metabolism.

BIOL A423 Ichthyology 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A219.
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 A219.
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 A219.
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 A219.
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 A219 and CHEM A105 and [AS A252 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 A219.
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 A361.
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.
Structure of viruses; selected bacterial, plant and animal viruses, including the major pathogens of man; viral gene expression; viral oncogenes; viral vaccines; origin of viruses.

BIOL A468 Biogeochemistry 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A219 and CHEM A322.
Stacked with: BIOL A668.
The processes and reactions of the major chemical cycles in the atmosphere, lithosphere, hydrosphere, and terrestrial biosphere. Topics include biogeochemical cycling of water, carbon, nitrogen, phosphorus, and sulfur.

BIOL A471 Immunochemistry 4 CR
Contact Hours: 3 + 3
Prerequisites: 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.
Special Fees.
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 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 A219.
Functional anatomy, ecology, and evolution of chordates.

BIOL A488 Developmental Biology 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A361.
Special Fees.
A study of the molecular and cellular principles which underlie the development of tissues and organ systems in animals, including classical embryology.

BIOL A492 Undergraduate Seminar 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Junior or senior standing.
Special Fees.
Topical subjects in biology presented by undergraduate students.

BIOL A495 Instructional Practicum: Laboratory 1 CR
Contact Hours: 0 + 3
Registration Restrictions: 20 credits in biology.
Special Note: May be repeated once for credit.
Supervised practical experience in one 3-hour biology laboratory section. Planning, presentation of material, achievement testing, and correlation with lecture under the direct supervision of department faculty.

BIOL A498 Individual Research 1-6 CR
Contact Hours: 0 + 3-18
Registration Restrictions: Faculty permission required.
Special Fees.
Special Note: May be repeated for a maximum of 6 credits.
Lab and field investigations on specific subjects in biology. Topic for study to be approved and directed by a faculty member in biological sciences.

BIOL A602 Systematic Biology 2 CR
Contact Hours: 2 + 0
Prerequisites: BIOL A308.
Registration Restrictions: 8 credits upper-division organismal biology credits; or graduate standing.
Classification, systematics, and taxonomy of organisms.

BIOL A610B Microscopic Anatomy 3 CR
Contact Hours: 2 + 3
Registration Restrictions: Written permission from Biomedical Program Director.
Special Fees.
Lectures and laboratories in microscopic anatomy are designed to provide the principles and concepts of histology, to define the morphological characteristics of the cells, tissues and organs of the human body and to relate this information to functional processes studied in concurrent and subsequent courses.

BIOL A611B Gross Anatomy I and Embryology 5 CR
Contact Hours: 3 + 6
Registration Restrictions: Written permission from Biomedical Program Director.
Special Fees.
Provides a broad understanding of structural organization of human body at the macroscopic level of the human organism. Integrates embryological development with study of the cadaver and examination of the normal living body. Concentrates on exploration of body cavities and viscera they contain. Embryology and general anatomical concepts are presented in lecture format and in anatomy exercises, which students prepare and work through.

BIOL A612B Mechanisms in Cell Physiology 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Written permission from Biomedical Program Director.
Special Fees.
Fundamental cellular events underlying the following topics: physiology of the cell membrane including ionic and electrical potential gradients, active transport, excitability and action potentials; biophysics of sensory receptors; neuromuscular transmission; muscle energetics and contractility; spinal reflexes and central synaptic transmission; autonomic nervous system; energy metabolism and temperature regulation; epithelial transport; gastrointestinal motility and secretions.

BIOL A614B Biochemistry I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Written permission from Biomedical Program Director.
Special Fees.
The first part of a coordinated course covering classical molecular and cellular biochemistry, cellular physiology and molecular genetics. Metabolic interrelationships as they occur in the individual will be stressed and related to disturbances in disease states.

BIOL A620B Cell and Tissue Responses to Injury 4 CR
Contact Hours: 3 + 2
Registration Restrictions: Written permission of Biomedical Program Director.
Disease processes that underlie clinical medicine. Five major sections covered: cellular pathology, inflammation, vascular pathology, genetics/developmental pathology/aging and neoplasia. Aims of course are to introduce and to illustrate terminology, gross pathology, histopathology, etiology, pathogenesis and clinical importance of major human disease processes.

BIOL A621B Natural History of Infectious Diseases and Chemotherapy I 5 CR
Contact Hours: 5 + 0
Registration Restrictions: Written permission from Biomedical Program Director.
Pathogenesis of infectious diseases, natural barriers and immunity, microbiology, epidemiology, clinical manifestations and control of representative bacterial, fungal, parasitic and viral infectious diseases. Chemotherapeutics and principles of chemotherapy. Sterilization, principles of asepsis, nosocomical and introgenic infections and their presentation.

BIOL A623B Introduction to Immunology 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Written permission from Biomedical Program Director.
Special Fees.
Basic concepts such as antigens; antibodies; complement; B- and T-lymphocyte function, including interactions with each other and with accessory cells; immunological tolerance; major histocompatibility complex, and role of these basic concepts in immunopathology (immunodeficiencies; hypersensitivities; autoimmunity; blood transfusion and transplantation).

BIOL A624B Biochemistry II 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Written permission from Biomedical Program Director.
Continuation of BIOL A614B.

BIOL A627 Advanced Invertebrate Zoology I 4 CR
Contact Hours: 2 + 6
Prerequisites: BIOL A427.
Functional morphology, evolutionary adaptations and phylogeny of the invertebrates with emphasis on skeletal systems, locomotion, nervous systems, and reproduction.

BIOL A628 Advanced Invertebrate Zoology II 4 CR
Contact Hours: 2 + 6
Prerequisites: BIOL A627.
Functional morphology, evolutionary adaptations and phylogeny of the invertebrates with an emphasis on skeletal systems, locomotion, nervous systems, and reproduction.

BIOL A631B Gross Anatomy II (Head, Neck, Ear, Nose and Throat) 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Written permission from Biomedical Program Director.
Gross anatomy (including skull, larynx and pharynx). Audition and balance, physiology and clinical evaluation. Maxillo-facial disorders, diseases of nasal passages, naso- and oropharynx, accessory sinuses, physical examination.

BIOL A632B Nervous System 5 CR
Contact Hours: 5 + 0
Registration Restrictions: Written permission from Biomedical Program Director.
Integrated approach to the normal structure and function of the nervous system, including the eye. Neuropathological examples are presented as well as clinical manifestations of neurological disease.

BIOL A634B Natural History of Infectious Diseases and Chemotherapy II 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Written permission from Biomedical Program Director.
Continuation of BIOL A621B.

BIOL A645 Advanced Herbivore Ecology 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOL A371.
Stacked with: BIOL A445.
Special Fees.
Advanced exploration of the concepts of nutritional ecology of herbivores and the implications of these concepts to management of animal populations and their habitats. Topics include the nutrition of herbivores, plant morphology and chemistry relative to herbivores, spatial and temporal dynamics of food resources, body size scaling and nutritional allometrics, forage selection, and herbivore management. Emphasis on arctic and boreal herbivores and their habitats.

BIOL A648 Ecological Modeling 3 CR
Contact Hours: 3 + 0
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.

BIOL A650 Advanced Microbial Ecology 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A340.
Stacked with: BIOL A450.

Advanced exploration of the diversity of the microbial world; the role of microorganisms in the cycling of elements in soils, lakes, and oceans; bacterial consumption and production of trace gases; geomicrobiology; symbioses.

BIOL A661 Advanced Molecular Biology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Stacked with: BIOL A461.
Special Note: Lectures concurrent with BIOL A461. In addition to meeting all requirements for BIOL A461, graduate students will be required to research the literature on a current topic in molecular biology, to submit an extensive paper summarizing their findings including designs for future experiments on the subject, and to give a seminar on the same topic. Not available for credit to students who have completed BIOL A461.

A study of molecular biology, with emphasis on molecular genetics and the molecular biology of eukaryotic cells and cancer cells, including current developments in the field.

BIOL A663 Molecular Biology of Cancer 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A361 or BIOL A461.
Registration Restrictions: Graduate Standing.

A study of the molecular biology of cancer, with emphasis on the mechanisms by which a normal cell becomes a malignant cell, including the role of both chemicals and viruses in carcinogenesis. The orientation of the course will be toward a study of current literature, by means of research, term papers, discussions, and seminars.

BIOL A668 Advanced Biogeochemistry 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Stacked with: BIOL A468.

Comprehensive exploration of the processes and reactions of the major chemical cycles in the atmosphere, lithosphere, hydrosphere, and terrestrial biosphere. Topics include biogeochemical cycling of carbon, nitrogen, phosphorus, and sulfur.

BIOL A672 Vegetation Analysis 4 CR
Contact Hours: 3 + 3
Registration Restrictions: Graduate Standing.
Special Fees.

Covers methods of measuring, describing and classifying vegetation. Includes: 1) plot and plotless sampling methods, 2) relevé, 3) community and ecosystem classification, 4) ordination and statistical analysis, 5) vegetation mapping, 6) vegetation structure, vegetation as habitat for animals, 7) cover/dominance, 8) species diversity, and 9) aerial photography and remote sensing as applied to landscape classification.

BIOL A675 Advanced Arctic Tundra Ecosystems 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A371.
Registration Restrictions: Graduate Standing.
Stacked with: BIOL A475.
Special Fees.

In-depth consideration of the Arctic landscape, its biota, and adaptations to environmental conditions. Advanced understanding of ecological principles is required. Examines the unique aspects of Arctic ecology and the relationship of Arctic ecosystems to global environmental issues and to the biosphere.

BIOL A676 Advanced Boreal Ecosystems 3 CR
Contact Hours: 3 + 0
Prerequisites: BIOL A371.
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.

BIOL A679 Physiological Plant Ecology 4 CR
Contact Hours: 3 + 3
Registration Restrictions: Graduate Standing.

Analyzes interactions between the plant and its environment. Deals with acquisition of resources, both energy and matter. Radiation interception and energy dissipation will be analyzed using energy balance equations. The nature of low and high temperature stress and adaptations to deal with these will be described.

BIOL A685 Advanced Topics in Biology 1-5 CR
Contact Hours: 1-5 + 0
Registration Restrictions: Graduate Standing.
Stacked with: BIOL A485.
Special Note: May be repeated for credit with a change of subtitle.

Intensive studies on narrowly defined topics in biological sciences. Emphasis on content as well as on instructional techniques.

BIOL A692 Graduate Seminar 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Graduate Standing.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: May be repeated for a maximum of 2 credits.

Topical subjects in biology presented by graduate students, biology faculty, and guest speakers.

BIOL A698 Directed Research 1-6 CR
Contact Hours: 0 + 3-18
Registration Restrictions: Permission of graduate advisor.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: May be repeated for a maximum of 12 credits.

Thesis specific research for the MS degree. Topic for study to be approved and directed by a faculty member in biological sciences.

BIOL A699 Thesis 1-6 CR
Contact Hours: 0 + 3-18
Registration Restrictions: Permission of graduate advisor.
Special Fees.
Special Note: May be repeated for a maximum of 12 credits in combination with BIOL A698 (both courses not to exceed 12 credits).

Planning, preparation, and completion of thesis for the MS degree in the biological sciences.

CULINARY ARTS - CA

Offered through the Community & Technical College
Lucy Cuddy Center (CUDY), 786-4728

CA A102 Nutrition 3 CR
Contact Hours: 3 + 0
Special Fees.

Chemical, biological, and social aspects of food and nutrition as related to residential and commercial foodservice.

CA A103 Culinary Skill Development 4 CR
Contact Hours: 0 + 12
Prerequisites: CA A102 with minimum grade of C and CA A104 with minimum grade of C and CA A105 with minimum grade of C and CA A107 with minimum grade of C and CA A110 with minimum grade of C.
Corequisite: CA A111.
Special Fees.
Special Note: Fee covers knife kit and uniforms used throughout foodservice program.

Covers principles, skills, and techniques fundamental to professional foodservice operations. Emphasizes kitchen safety and sanitation, industry vocabulary, organization and timing, menu planning, recipe conversion, equipment use, food quality standards, proper food storage, and methods and techniques necessary for quantity food preparation.

CA A104 Sanitation 2 CR
Contact Hours: 2 + 0

Examines sanitation concepts, methods, codes, and regulations current to the foodservice industry. Offers certification testing through the Educational Foundation of the National Restaurant Association.

CA A105 Principles of Food Science 3 CR
Contact Hours: 2 + 2

Describes the physical and chemical reactions of the food elements during preparation, cooking, and storage. Covers vegetables, fruits, protein foods, oils, starches, and sugars.

CA A107 Culinary Cost Control 2 CR
Contact Hours: 2 + 0
Prerequisites: MATH A054 or.
Registration Restrictions: Grade of C or better in MATH A054, or math placement test for MATH A055.

Math principles applied within hospitality and institutional foodservice operations used during food production, inventory control and personnel management. Emphasis on preparing and understanding foodservice management statistics, using a ten-key calculator, computerized cash register, and computer spreadsheets.

CA A110 Quantity Food Purchasing 2 CR
Contact Hours: 2 + 0

Covers common criteria for assessing food quality, based upon federal food standards. Focuses on qualitative and quantitative measurements, including weights and measures, adulterants and additives, taste-testing, and can-cutting. Students develop product specifications and procure food and restaurant supplies for actual foodservice operation.

CA A111 Bakery Skill Development 4 CR
Contact Hours: 0 + 12
Prerequisites: CA A102 with minimum grade of C and CA A104 with minimum grade of C and CA A105 with minimum grade of C and CA A107 with minimum grade of C and CA A110 with minimum grade of C.
Corequisite: CA A103.
Special Fees.

Introduces fundamentals of hotel and restaurant baking. Includes production processes, safety and sanitation, recipe application, safe and accurate use of bakery tools, equipment and materials, and cooperating with others.

CA A113 Culinary Meats and Charcuterie 3 CR
Contact Hours: 3 + 0

Meat analysis. Study of meat fabrication, cuts and their uses. Recognition of cuts and qualities. Demonstrations include fabrication and identification of cuts used in the foodservice industry.

CA A114 Beverages 2 CR
Contact Hours: 2 + 0

History of alcoholic and non-alcoholic beverages; their make-up and chemistry. The legal ramifications, serving and uses in foodservice. Dispensing equipment, set-up and maintenance are also discussed.

CA A115 Gourmet Cooking, Healthy Style 1 CR
Contact Hours: 0 + 2
Grade Mode: Pass/No Pass.

Features "Low fat" methods of cooking for home use. Students prepare and sample a variety of different foods including meat and meatless entrees, fresh and frozen vegetables, starches, appetizers, soups, salads, and holiday meals.

CA A201 A la Carte Kitchen 4 CR
Contact Hours: 0 + 12
Prerequisites: CA A103 with minimum grade of C and CA A111 with minimum grade of C.
Corequisite: CA A202.
Special Fees.

Introduces student to a la carte foodservice. Emphasis on a la minute methods of food preparation. Industry vocabulary, operations, timing, organization, safety, sanitation, and techniques for a la carte preparation used in an actual line station kitchen.

CA A202 Advanced Bakery 4 CR
Contact Hours: 0 + 12
Prerequisites: CA A103 with minimum grade of C and CA A111 with minimum grade of C.
Special Fees.

Expands fundamentals of hotel and restaurant baking. Explores advanced bakery techniques, product design, and presentation. Emphasizes production processes, serving and portion controls, safety and sanitation practices, and product salability.

CA A220 Foodservice Operations 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Recommended experience in foodservice operations.
Special Note: Students planning to take the dietary managers certificate exam must enroll concurrently in CA A295A.

Operation responsibilities of the line supervisor, including purchasing, storeroom operations, distribution, serving, menu planning, recipe standardization, safety and first aid, maintenance and safe use of equipment, quality assurance, and worker/customer relations.

CA A223 Advanced Foods: Buffet and Garde Manger 3 CR
Contact Hours: 2 + 8
Prerequisites: CA A201 and CA A202.

Menu planning, organization and production techniques necessary for buffet-style service. Student will also be exposed to ice carving, tallow and dough sculpting, and preparation and presentation of terrines, pates, appetizers and display pieces essential to buffet service.

CA A224 Hospitality Service 3 CR
Contact Hours: 1 + 6
Prerequisites: CA A202.
Special Fees.
Special Note: Specific uniform required.

Examination, instruction, demonstration, and practice of the many ways foods are presented and served to customers. Includes dining room service of all types, waiter/waitress responsibilities, merchandising of foods and services, tabletop topography, napkin folding, cutlery and tableside cookery to include flambe. 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
Prerequisites: CA A103 and CA A105 and CA A111.

Menu design and layout of successful foodservice facilities. Consideration is given to menu composition, pricing strategies, and time and motion efficiency of facilities. Relationships among menu, nutrition, sales, purchasing, and facility are also explored.

CA A230 Foodservice Management 3 CR
Contact Hours: 3 + 0
Special Note: Students planning to take the dietary managers certificate exam must enroll concurrently in CA A295B.

Basic administrative and management responsibilities within hospitality and institutional foodservice industry. Emphasis on communication, problem solving, leadership, personnel planning, training and motivating, and organizational skills. Costs, cost control and the legal environment are also discussed.

CA A233 Advanced Pastry 3 CR
Contact Hours: 1 + 8
Prerequisites: CA A201 and CA A202.

Experience in working with more classical pieces in specialty baking and developing individual creativity in pastry art.

CA A295A Foodservice Operations Practicum 1.5 CR
Contact Hours: 0 + 6
Corequisite: CA A220.
Grade Mode: Pass/No Pass.

Field experience course of 90 hours with 6 hours instructor contact. Assignments parallel topics in CA A220.

CA A295B Foodservice Management Practicum .5 CR
Contact Hours: 0 + 3
Corequisite: CA A230.
Grade Mode: Pass/No Pass.

Field experience course of 45 hours with 4 hours instructor contact. Assignments parallel topics in CA A230.

CA A295C Foodservice Internship 3 CR
Contact Hours: 1 + 15
Prerequisites: CA A201 with minimum grade of C and CA A202 with minimum grade of C and CA A224 with minimum grade of C and CA A230 with minimum grade of C.
Grade Mode: Pass/No Pass.
Special Fees.

Provides supervised workplace training in selected foodservice industry settings. Integrates knowledge and skills through work designed to meet student's individual competency needs and career objectives. Requires minimum of 225 hours at worksite plus 15 hours of on campus instruction.

CA A490 Current Topics in Foodservice and Nutrition 1-6 CR
Contact Hours: 0-6 + 0-18
Registration Restrictions: Faculty permission required.
Special Note: Only 3 credits applicable to AAS degree. See schedules for specific titles to be offered.

Provides advanced theoretical and/or experiential learning in foodservice or nutrition for the professional. Specific course content is determined by current industry trends and student needs.

CIVIL ENGINEERING - CE

http://www.engr.uaa.alaska.edu
Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900

CE A334 Properties of Materials 2 CR
Contact Hours: 1 + 3
Prerequisites: ES A331.
Corequisite: CE A334L.
Introduction to structures and properties of engineering materials. Standard properties of common engineering materials: steel, aluminum, concrete and wood will be tested. Reviews theoretical bases and experimental mechanics of buckling of columns, bending of beams and tension-compression tests. Covers strain gages and photoelasticity theories also.

CE A344 Water Resources Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: ES A341.
Fundamentals of engineering hydrology and hydraulic engineering, precipitation, runoff, statistical methods, flood control, open channels, and groundwater.

CE A402 Transportation Engineering 3 CR
Contact Hours: 2 + 3
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.
Principal of foundation action, spread footings, mats, pile foundations, retaining walls and bulkheads, bridge piers, cofferdams and abutments.

CE A431 Structural Analysis 4 CR
Contact Hours: 4 + 0
Prerequisites: ES A331.
Review of statically determinate beams and trusses. Discusses shearing, bending moment and influence line diagrams for statically determinate and indeterminate structures. Includes deflections, elastic lines, and an introduction to matrix and computer analyses.

CE A432 Steel Design 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431.
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.
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.
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.
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.
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.
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.
An advanced course on the design of systems commonly used in environmental engineering practice with an emphasis on water and wastewater treatment and contaminated soils. Design of unit processes and operations will be performed. Selection of system components, design and performance calculations, and complete engineering reports are required.

CE A470 Civil Engineering Internship 1 CR
Contact Hours: 0 + 3
Registration Restrictions: Senior standing or permission of department coordinator.
Special Fees.
Designed to give students the opportunity to investigate the practical workings of engineering organizations. Assignments individually arranged with cooperating organizations and agencies.

CE A603 Arctic Engineering 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Application of engineering fundamentals to problems of advancing civilization in polar regions. Logistics, foundations on frozen ground and ice, thermal aspects of structures, materials, transport, and communications, heating and ventilating.

CE A617 Control Surveys 3 CR
Contact Hours: 3 + 0
Geodetic surveying where the shape of the earth must be considered. Both horizontal and vertical control will be studied. Heavy emphasis on Alaska state plane coordinate system. Adjustments of level nets, traverses, triangulation, and trilateration.

CE A620 Civil Engineering Construction 3 CR
Contact Hours: 3 + 0
Prerequisites: ESM A450.
Special Fees.
Construction equipment and methods, construction management and accounting, construction estimates and costs.

CE A631 Structural Finite Elements 3 CR
Contact Hours: 3 + 0
Prerequisites: ES A301 and CE A431.
Introduction to finite element and computer methods in structural analysis. Matrix algebra, the slope-deflection and the direct stiffness methods will be reviewed. Topics include: finite elements and corresponding matrix equations for a truss, for a beam and for frame structures, organization of typical computer programs, two-dimensional stress-strain problems, eigenvalue problems, and practical applications of engineering software.

CE A632 Advanced Structural Design 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431.
Design of complex structures and frames. Live, dead, and earthquake loadings. Structural joints, columns, connectors, ties, and struts. Application of modern materials and techniques to design.

CE A633 Structural Dynamics 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431 and MATH A302.
Special Fees.
Covers the theory of structural dynamics, including single and multiple degree of freedom systems subjected to earthquake and other excitations. Application to analysis and design of civil engineering structures is emphasized.

CE A634 Earthquake Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431 and CE A432 and CE A433 and CE A633.
Registration Restrictions: Good computer skills and basic understanding of finite element method is preferred.
Introduces basic seismic concepts, design principles, criteria for design and construction of buildings subject to earthquake ground motions. Also includes technology of reducing earthquake loads through seismic isolation.

CE A636 Multi-Story Building Structural Design 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431 and CE A432 and CE A433.
Design of structural systems for buildings. Covers the computation of loads on buildings, the selection and analysis of structural systems, building codes and their origins, and an introduction to the development of design drawings and specifications.

CE A649 Urban Transportation Planning 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing in engineering or planning or faculty permission.
The urban transportation planning process with emphasis on travel demand forecasting procedures using a multimodal approach.

CE A662 Surface Water Dynamics 3 CR
Contact Hours: 3 + 0
Prerequisites: ES A341.
Principles of open channel flow, ice covered flow, unsteady flow, and stream flow as a sediment and pollution transport agent.

CE A663 Ground Water Dynamics 3 CR
Contact Hours: 3 + 0
Prerequisites: ES A341.
Fundamentals of geohydrology, hydraulics of flow through porous media, well hydraulics, ground water pollution, and ground water resources development.

CE A676 Coastal Engineering 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Bachelor's degree in Civil engineering.
Review of deep and shallow water waves, littoral drift, coastal structures, pollution problems, and harbor seiches.

CE A681 Frozen Ground Engineering 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Training or experience in soil mechanics.
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.

CE A682 Ice Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: ES A331 and MATH A202.
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.

CE A683 Arctic Hydrology and Hydraulic Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A344.
Aspects of hydrology and hydraulics unique to engineering problems of the North. Emphasis on Alaskan conditions, information from Canada and other circumpolar countries included.

CE A684 Arctic Utility Distribution 3 CR
Contact Hours: 3 + 0
Prerequisites: ES A341.
Practices and considerations of utility distribution in Arctic regions. Emphasis on proper design to include freeze protection, materials, energy conservation and system selection.

CE A685 Slope Stability 3 CR
Contact Hours: 3 + 0
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.

CE A686 Civil Engineering Project 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Admission to candidacy for the master of civil engineering degree.
Arranged between the advisor, project committee, and the student. The student is required to take an oral exam defending the project.

CE A698 Individual Research 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Faculty permission.
A course to be designed between the student and faculty member to allow students the chance to pursue special advanced interests in engineering at the MS level.

CE A699 Thesis 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Graduate committee permission.
Individual study of an advanced engineering problem resulting in a thesis. The student must have been admitted to candidacy for the master of science in civil engineering. The student must take an oral exam defending the thesis.

COMMUNITY EDUCATION - CED

Offered through Kenai Peninsula College
34820 College Dr., Soldotna, Alaska, 99669,(907) 262-0300.

CED A106 Beginning Genealogy 3 CR
Contact Hours: 3 + 0
Offered only at Kenai Peninsula College.
Special Note: Most of the course work will be done on the individual student's family.
Teaches how to do genealogical research effectively and intelligently by using family, vital, census, court, and military records. Covers immigration and the naturalization process, importance of oral history and techniques of interviewing; how computers fit in the field; and types of libraries and special collections available.

CED A110 Employment Development Planning 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Designed to encourage and prepare single parents/displaced homemakers to pursue an education and/or employment, by establishing goals and utilizing available resources. Includes communication skills, resume writing, interviewing techniques, self-image and problem solving techniques. Emphasis in goal setting and career planning.

CED A112 Interview Training 1 CR
Contact Hours: .5 + 1
Registration Restrictions: A completed job resume.
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Experiential application of successful job interview techniques and general communication skills. Video taped simulated practice interviews are used in class for feedback and suggestions.

CED A118 Women and Career Planning 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Designed to encourage and prepare single parents/displaced homemakers to pursue an education and or employment by establishing goals and utilizing available resources. Topics include self-image, attitudes, resource management, time and money, decision-making, job and family, and problem solving.

CED A119 Crisis Intervention Training 4 CR
Contact Hours: 3 + 2
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Special Note: Includes 37 hours of lecture, with an 8 hour update at the end of 3 months, 30 hours of active participation in the shelter (as a crisis line/shelter volunteer), CPR and First Aid Certification, and attendance at a minimum of 2 volunteer meetings. Several guest speakers from the community and WRCC will be presenting topics on a wide variety of issues.
Prepares students for volunteer work in a shelter for battered women and their children.

CED A122 Natural Medicine Practices 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
An introduction to natural health practices, focusing on current research and developments.

CED A130 Crisis Intervention 2 CR
Contact Hours: 2 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
General study of crisis intervention with specific focus on domestic violence and understanding and applying effective skills when dealing with victims in crisis.

CED A130L Crisis Intervention Lab Work 1 CR
Contact Hours: 0 + 2
Prerequisites: CED A130.
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
30-hours providing active crisis intervention in the community as a crisis advocate or safe home provided in Seward Life Action Council's domestic violence and sexual assault program.

CED A131 Introduction to Concordant Philosophy 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Survey of concordant philosophy which deals with the caring dimension among people and its application. Examines the intellectual, physiological, spiritual, and excitational (emotional) aspects of a person.

CED A132 The Kinlein Associate in the Community 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
The process of becoming a Kinlein associate who assists people in their homes as a human service provider.

CED A139 Computer Repair for IBM and Compatibles 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Basic skills in using the MS/DOS operating system and Windows 3.1 are required.
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Introduction to repair and maintenance of Intel based IBM compatible microcomputers, including the hardware and its relationship to the operating system, troubleshooting, strategies, and system upgrade techniques. No familiarity with electronics is required.

CED A140 Calculator Workshop 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Familiarize students with the operation of a graphics calculator. Specific uses of the calculator appropriate to arithmetic, algebra, trigonometry, a calculus will be presented.

CED A142 Megaskills 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Introduces the concepts, content, and materials of the megaskills program. All participants who complete the training workshop will have learned and demonstrated strategies and skills to conduct megaskills workshops in their communities.

CED A170 Conflict Resolution 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Introduction to the principles of conflict. Focuses on effective communication, cooperation, affirmation, and win- win solutions.

CED A210 Crime Scene Investigation 2 CR
Contact Hours: 2 + 0
Offered only at Kenai Peninsula College.
Covers the fundamentals of investigation. Includes crime scene search and recording, collection and presentation of physical evidence, scientific aids, modus operandi, sources of information, interview and interrogations, follow-up and case preparation.

CED A231 Grant Proposal Writing 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Presents an overview of funding sources and references, and provides an in-depth description of the components of a grant proposal.

CED A232 Professional/Business Development Conference for Women 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
A series of workshops exploring a wide variety of contemporary business and professional development topics such as career and leadership development, management, personal effectiveness and workplace skills.

CED A239 Sexual Assault Response Team Training 2 CR
Contact Hours: 2 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Multidisciplinary response to sexual assault for law enforcement officers, social service personnel, and nurse examiners.

CED A240 Skill for Adolescence 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Must be a classroom teacher.
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Certifies 6th-8th grade teachers to use "Skills for adolescence" — a comprehensive research-based program that helps students develop self-discipline, responsibility, good judgment, and cooperation.

CED A241 Classroom Volunteer Training 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Explores current "Best practices" at an introductory level to equip volunteers to more effectively assist classroom teachers. Provides opportunities for directed observation as well as information on strategies and activities for increasing academic learning.

CED A246 Family Math for Educators and Parents 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Introduces parents to what researchers know about the impact of parental and family involvement on student achievement, what research says about mathematics instruction in and out of school, what research says regarding mathematics instruction for girls and minorities. Participants will learn practical methods for improving student thinking about mathematics in the classroom, gain information and methods for promoting mathematical thinking in the entire school, at home, and in the after school family math program. Participants will prepare materials for and plan actual family math sessions for their school.

CED A247 Current Trends in Educational Technology 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Explores how technology in education can prepare students for work and lifelong learning in the information age. Participants will develop a plan for the integration of technology as a tool into their educational setting.

CHEMISTRY - CHEM

Offered through the College of Arts and Sciences
Engineering Building (ENGR), Room 339, 786-1238

CHEM A055 Contemporary Chemistry 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A055.
Introductory course for students with little or no chemistry background. Covers units of measurement, matter, atoms, periodic table, nomenclature, equations, oxidation-reduction, solutions, calculations, and problem solving.

CHEM A055L Contemporary Chemistry Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: (CHEM A055 or concurrent enrollment).
Special Fees.
Laboratory designed to teach the fundamentals of working with laboratory equipment, data gathering, analysis, and reporting.

CHEM A103 Survey of Chemistry 3 CR
Contact Hours: 3 + 0
Prerequisites: [MATH A055 with minimum grade of C or MATH A060 with minimum grade of C] and CHEM A055 with minimum grade of C.
Course Attributes: GER Natural Sciences
Covers units of measurement, periodic table, chemical equations, atomic and molecular structure, chemical bonding, radioactivity, oxidation-reduction reactions, solutions, acids, bases, and buffers. Introduction to organic chemistry including units covering alkanes, alkenes, alkynes, aromatic compounds, alcohols, phenols, ethers, and halides.

CHEM A103L Survey of Chemistry Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: (CHEM A103 or concurrent enrollment).
Course Attributes: GER Natural Sciences
Special Fees.
Introductory laboratory to teach the basics of laboratory equipment, data gathering, analysis, and reporting.

CHEM A104 Introduction to Organic Chemistry and Biochemistry 3 CR
Contact Hours: 3 + 0
Prerequisites: CHEM A103.
Course Attributes: GER Natural Sciences
Special Note: CHEM A104 is a lecture class only. The course sequence CHEM A103/A104 satisfies the GER lab science requirement.
Includes a survey of organic chemistry and biochemistry. Covers aldehydes, ketones, carboxylic acids, esters, amines, amides, carbohydrates, lipids, proteins, enzymes, bioenergetics, catabolic pathways, biosynthetic pathways, nucleic acids, protein synthesis, and selected topics in physiology.

CHEM A104L Introduction to Organic Chemistry and Biochemistry Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: CHEM A103 and (CHEM A104 or concurrent enrollment).
Course Attributes: GER Natural Sciences
Special Fees.
Laboratory sequence based on the concepts presented in CHEM 104.

CHEM A105 General Chemistry I 3 CR
Contact Hours: 3 + 0
Prerequisites: CHEM A055 with minimum grade of C and MATH A105 with minimum grade of C.
Course Attributes: GER Natural Sciences
Introduction to inorganic chemistry for science majors which includes atomic and molecular structure, chemical equations and calculations, states of matter, solutions, acids and bases, oxidation-reduction reactions, and thermodynamics. Assumes prior knowledge of nomenclature and basic calculations (metric and SI system, mole).

CHEM A105L General Chemistry I Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: (CHEM A105 or concurrent enrollment).
Course Attributes: GER Natural Sciences
Special Fees.
Laboratory designed to teach the fundamentals of working with laboratory equipment, data gathering, analysis, and reporting.

CHEM A106 General Chemistry II 3 CR
Contact Hours: 3 + 0
Prerequisites: CHEM A105 with minimum grade of C and [MATH A105 with minimum grade of C or MATH A107 with minimum grade of C].
Course Attributes: GER Natural Sciences
The second semester in the general chemistry sequence for science majors. Discusses solution equilibrium, electrochemistry, kinetics, thermodynamics of equilibrium systems, coordination chemistry, radiation chemistry, organic nomenclature, structures, and simple reactions.

CHEM A106L General Chemistry II Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: (CHEM A106 or concurrent enrollment) and CHEM A105L.
Course Attributes: GER Natural Sciences
Special Fees.
Laboratory designed to teach the fundamentals of working with laboratory equipment, data gathering, analysis, and reporting.

CHEM A212 Quantitative Analysis 5 CR
Contact Hours: 3 + 6
Prerequisites: CHEM A106 with minimum grade of C and CHEM A106L with minimum grade of C.
Special Fees.
General principles of chemical analysis, including introduction to volumetric, gravimetric, and instrumental methods, theory, problems, and laboratory.

CHEM A311 Physical Chemistry: A Biological Orientation 3 CR
Contact Hours: 3 + 0
Prerequisites: CHEM A212 with minimum grade of C and MATH A200 with minimum grade of C.
Designed to introduce the principles of physical chemistry to students primarily interested in the biochemical and biological aspects of chemistry. Topics of physical chemistry are presented from the viewpoint of their application to biochemical problems. Included are discussions of thermodynamics and biochemical energetics, properties of solutions and electrolytes, electrochemical applications to biological oxidation-reduction reactions, chemical and enzyme kinetics.

CHEM A321 Organic Chemistry I 4 CR
Contact Hours: 3 + 4
Prerequisites: CHEM A106 with minimum grade of C and CHEM A106L with minimum grade of C.
Corequisite: CHEM A321L.
A theoretical and laboratory course designed to study the important classes of carbon compounds including alkanes, alkenes, alkyl halides and their cyclic derivatives. Included will be a study of reactions, reaction mechanisms, and stereochemistry of these compounds.

CHEM A322 Organic Chemistry II 4 CR
Contact Hours: 3 + 4
Prerequisites: CHEM A321 with minimum grade of C.
Corequisite: CHEM A322L.
A continuation of CHEM 321 including the study of spectroscopic means of structure determination, conjugated compounds, aromatic compounds, and carbonyl compounds. Various classes of reactions of these compounds will be studied also. Included in this study will be such topics as electrophilic aromatic substitution, addition, and condensation reactions of carbonyl compounds. Synthetic methods and reaction mechanisms will be emphasized throughout the course.

CHEM A331 Physical Chemistry I 3 CR
Contact Hours: 3 + 0
Prerequisites: CHEM A106 with minimum grade of C and CHEM A106L with minimum grade of C and MATH A302 with minimum grade of C and PHYS A212 with minimum grade of C and PHYS A212L with minimum grade of C.
A quantitative study of the kinetic theory of gases and principles of chemical thermodynamics with applications to solutions, phase and chemical equilibria, electrochemistry, and chemical kinetics. Introduction to quantum mechanics and spectroscopy.

CHEM A332 Physical Chemistry II 5 CR
Contact Hours: 3 + 6
Prerequisites: CHEM A331.
Continuation of quantum mechanics with selected applications to atomic and molecular structure and spectroscopy. Selected topics in physical chemistry.

CHEM A421 Advanced Organic Chemistry 3 CR
Contact Hours: 3 + 0
Prerequisites: CHEM A322 with minimum grade of C.
Special Note: Offered as warranted by demand.
Theoretical interpretation of the physical and chemical properties of organic molecules; molecular orbital theory; spectroscopy of organic molecules; photochemical processes.

CHEM A431 Advanced Physical Chemistry 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A302 with minimum grade of C and CHEM A332 with minimum grade of C and PHYS A212 with minimum grade of C and PHYS A212L with minimum grade of C.
A selection of topics including phase transitions, perturbation theory, group theory and molecular spectroscopy, molecular reaction dynamics, and electric and magnetic properties of molecules.

CHEM A434 Instrumental Methods 4 CR
Contact Hours: 2 + 6
Prerequisites: CHEM A212 with minimum grade of C.
Stacked with: CHEM A634.
Techniques in operating new and specialized instruments for qualitative and quantitative analysis and analytical methods of an advanced nature. For students in chemistry and allied fields.

CHEM A441 Principles of Biochemistry I 3 CR
Contact Hours: 3 + 0
Prerequisites: CHEM A322 with minimum grade of C.
A study of the structure and function of proteins, carbohydrates, fats, vitamins, coenzymes, and nucleic acids and the degradative and biosynthetic pathways involving these biomolecules.

CHEM A442 Principles of Biochemistry II 3 CR
Contact Hours: 3 + 0
Prerequisites: CHEM A441 with minimum grade of C.
Topics will include a discussion of biomolecules with respect to their structure and function, metabolism, and molecular physiology.

CHEM A443 Biochemistry Laboratory 2 CR
Contact Hours: 0 + 6
Prerequisites: CHEM A441 with minimum grade of C and (CHEM A442 or concurrent enrollment).
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 A643 Structure and Function of Biological Membranes 2 CR
Contact Hours: 2 + 0
Prerequisites: CHEM A442.
An advanced topics course in biochemistry; structural characterization of cellular membranes and the role in transport, bioenergenics, photosynthesis and modulation of enzyme activity.

CHEM A650 Toxic Metal and Organic Chemicals in the Environment 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate status in biology or engineering.
An advanced topics course in environmental chemistry; distribution, environmental effects and current analytical techniques associated with trace metals and organics from natural and anthropogenic sources. Role in both acute and long-term toxic effects will be considered.

CHEM A685 Advanced Topics in Chemistry 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Graduate Standing.
Intensive studies on narrowly defined topics in chemistry. Emphasis on content as well as on instructional techniques.

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
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
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.

CHIN A201 Intermediate Chinese I 4 CR
Contact Hours: 4 + 0
Prerequisites: CHIN A102.
Special Note: Use of language lab required.
Continued training in conversation, grammar, and reading/writing simplified Chinese characters. Emphasis on everyday speech patterns and vocabulary development.

COMPUTER INFORMATION & OFFICE SYSTEMS - CIOS

http://www.scob.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 or upper-division ECON 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.
Basic keyboarding skills emphasizing correct techniques and development of speed and accuracy. Introduces centering, typing personal and business letters, envelopes, tables and manuscripts. Requires no previous typing training.

CIOS A100A Keyboarding I: A 1 CR
Contact Hours: 0 + 2
Special Note: Open-entry, individualized course. CIOS A100A, A100B, and A100C are equivalent to CIOS A100.
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.
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.
Emphasizes development of speed and accuracy and introduces typing of tables and reports.

CIOS A102 Keyboarding Skill Building 1 CR
Contact Hours: 0 + 2
Prerequisites: CIOS A100.
Grade Mode: Pass/No Pass.
Special Note: Open-entry, individualized course. May be repeated for a maximum of 3 credits with only 1 credit in each semester.
Drills to improve speed and/or accuracy on straight copy typing.

CIOS A105 Introduction to PC Computers and Applications 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Keyboarding skill of at least 30 WPM.
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.

CIOS A105A Introduction to PC Computers 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Keyboarding skill of at least 30 WPM recommended.
Introduction to using PC software. Includes word processing, database management, electronic spreadsheets, and graphics.

CIOS A106 Computer Literacy 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Keyboarding skills of 30 WPM recommended.
Corequisite: CIOS A106W.
Special Note: Lectures presented by Telecourse.
Presents computer hardware and software concepts from user perspectives.

CIOS A106W Computer Literacy Workshop 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Keyboarding skill of at least 30 WPM recommended.
Corequisite: CIOS A106.
An introduction to using microcomputers with word processing, electronic spreadsheets, and database software.

CIOS A107 Macintosh Computer and Applications 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A100.
Registration Restrictions: Keyboarding skill of at least 30 WPM.
Introduction to Macintosh computer hardware and software, including word processing, spreadsheets, data management, communications, and graphics.

CIOS A107A Introduction to Macintosh Computers 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Keyboarding skills of at least 30 WPM recommended.
Introduction to using Macintosh software. Includes word processing, database management, electronic spreadsheets, and graphics.

CIOS A107B Introduction to Macintosh Applications 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Keyboarding skills of at least 30 WPM recommended.
A hands-on course designed for home and business use. Topics include desktop/file management, word processing, spreadsheets, databases, and graphics.

CIOS A109 Introduction to ClarisWorks 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A107A or CIOS A113B.
Introduction to use of integrated software program - learning basic components. Students will have assigned as well as individual projects.

CIOS A110 Computer Concepts in Business 3 CR
Contact Hours: 3 + 0
Registration Restrictions: The following are recommended: MATH A105, CIOS A105 or ability to use Windows or Macintosh, and keyboarding skills of at least 30 wpm.
Introduction to computer concepts from a user's perspective. Covers hardware, software, the information processing cycle, programming, and microcomputer software packages. Emphasis on solving business problems using spreadsheet applications.

CIOS A111A Introduction to Lotus in DOS 1 CR
Contact Hours: 1+0 or 0+2
Registration Restrictions: Keyboarding skill of at least 30 WPM recommended.
Special Note: May be offered as either classroom or open-entry, individualized course.
Introduction to design and use of electronic spreadsheets. Covers the basic Lotus 1-2-3 commands and functions needed to create, manipulate, and print spreadsheets.

CIOS A111B Introduction to Excel on Macintosh 1 CR
Contact Hours: 1+0 or 0+2
Special Note: May be offered as either classroom or open-entry, individualized course.
Design and use of electronic spreadsheets. Covers basic commands and functions needed to create, manipulate, and print spreadsheets.

CIOS A111C Introduction to Lotus in Windows 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Keyboarding skill of at least 30 WPM recommended.
Introduction to design and use of electronic spreadsheets in a Windows environment. Covers the basic Lotus 1-2-3 for Windows commands and functions needed to create, manipulate, and print spreadsheets.

CIOS A111D Introduction to Excel in Windows 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Keyboarding skill of at least 30 WPM recommended.
Introduction to design and use of electronic spreadsheets in a Windows environment. Covers the basic Excel for Windows commands and functions needed to create, manipulate, and print spreadsheets.

CIOS A111E Quicken/Introduction to Personal Accounting 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Introduction to design and use of the quicken personal accounting program. Covers the basic commands and functions needed to create, manipulate, and print reports for a variety of personal business and investment applications.

CIOS A111F Introduction to Quickbooks for Windows 1 CR
Contact Hours: 1 + 0
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.

CIOS A112A Introduction to dBASE III+ 1 CR
Contact Hours: 1+0 or 0+2
Registration Restrictions: Keyboarding skill of at least 30 WPM recommended.
Special Note: May be offered as either classroom or open-entry, individualized course.
Includes designing and creating a database, updating, sorting and indexing, printing user-defined reports, and creating mailing labels.

CIOS A112C Introduction to Filemaker on Mac 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A107A.
Designed to teach use of the application through a series of structured activities demonstrating the "Power" of the application resulting in the creation of a substantial file useful to the participant.

CIOS A112D Introduction to Hypercard on Mac 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A107A.
Introduction to Hypercard concepts. Students will create stacks and use and customize existing stacks using Hypercard. Students will also create individualized slide shows.

CIOS A112E Introduction to Q & A 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Keyboarding skill of at least 30 WPM.
Q & A is an easy to use data filing program that combines word processing, report generation, and artificial intelligence in a tightly integrated package. The first microcomputer application to use artificial intelligence, Q & A is suitable for a wide range of business and personal applications.

CIOS A112F Introduction to Microsoft Access in Windows 1 CR
Contact Hours: 1+0 or 0+2
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.

CIOS A113A Introduction to Ms-Dos 1 CR
Contact Hours: 1+0 or 0+2
Registration Restrictions: Keyboarding skill of at least 30 WPM recommended.
Special Note: May be offered as either classroom or open-entry, individualized course.
Overview of common MS/DOS commands. Creating directories and managing hard-disks are stressed. Standard resident and nonresident commands are introduced.

CIOS A113B Introduction to Windows 1 CR
Contact Hours: 1 + 0
Introduction to the Windows environment. Includes file and disk management, the control panel, print manager, Windows setup and maintenance.

CIOS A113C Introduction to Mac Operating System 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A107A.
Registration Restrictions: Keyboarding skill of at least 30 WPM.
Designed for Macintosh owners and intensive Macintosh users. Focuses on system maintenance and operation with an emphasis on troubleshooting. Includes viruses, bombs, customizing the system, hard disk management, and system connectivity.

CIOS A114A Introduction to Microsoft PowerPoint 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A113B.
Registration Restrictions: Keyboarding skill of at least 30 WPM.
Special Note: May be offered as either schedules or open entry, individualized course.
Includes software applications covering techniques for design and development of presentation graphics slides. Slides are created with embedded graphs, tables, and visuals. Emphasis in design techniques.

CIOS A115A Introduction to WordStar in DOS 1 CR
Contact Hours: 1+0 or 0+2
Registration Restrictions: Keyboarding skill of at least 30 WPM and basic English skills.
Special Note: May be offered as either classroom or open-entry, individualized course.
Instruction and practice in use of IBM personal computer and WordStar software for standard word processing operations.

CIOS A115B Introduction to DisplayWrite in DOS 1 CR
Contact Hours: 1+0 or 0+2
Registration Restrictions: Keyboarding skill of at least 30 WPM and basic English skills.
Special Note: May be offered as either classroom or open-entry, individualized course.
Instruction and practice in use of IBM personal computer and DisplayWrite software for standard word processing operations.

CIOS A115C Introduction to PFS: Write in DOS 1 CR
Contact Hours: 1+0 or 0+2
Registration Restrictions: Keyboarding skill of at least 30 WPM and basic English skills.
Special Note: May be offered as either classroom or open-entry, individualized course.
Instruction and practice in use of IBM personal computer and PFS: write software for standard word processing operations.

CIOS A115D Introduction to WordPerfect in DOS 1 CR
Contact Hours: 1+0 or 0+2
Registration Restrictions: Keyboarding skill of at least 30 WPM and basic English skills.
Special Note: May be offered as either classroom or open-entry, individualized course.
Instruction and practice in use of IBM personal computer and WordPerfect software for standard word processing operations.

CIOS A115E Introduction to Microsoft Word in DOS 1 CR
Contact Hours: 1+0 or 0+2
Registration Restrictions: Keyboarding skill of at least 30 WPM and basic English skills.
Special Note: May be offered as either classroom or open-entry, individualized course.
Instruction and practice in use of IBM personal computer and Microsoft Word software for standard word processing operations.

CIOS A115F Introduction to Microsoft Word on Mac 1 CR
Contact Hours: 1+0 or 0+2
Registration Restrictions: Keyboarding skill of at least 30 WPM and basic English skills.
Special Note: May be offered as either classroom or open-entry, individualized course.
Instruction and practice in use of Macintosh personal computer and Microsoft Word software for standard word processing operations.

CIOS A115G Introduction to Microsoft Word in Windows 1 CR
Contact Hours: 1+0 or 0+2
Registration Restrictions: Keyboarding skill of at least 30 WPM and basic English skills.
Special Note: May be offered as either classroom or open-entry, individualized course.
Explores some of the characteristics of a window-based application covering basic Windows operations focusing on Microsoft Word for Windows.

CIOS A115H Introduction to WordPerfect in Windows 1 CR
Contact Hours: 1+0 or 0+2
Registration Restrictions: Keyboarding skill of at least 30 WPM and basic English skills.
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.

CIOS A115J Introduction to WordPerfect on Mac 1 CR
Contact Hours: 1+0 or 0+2
Registration Restrictions: Keyboarding skill of at least 30 WPM and basic English skills.
Special Note: May be offered as either classroom or open-entry, individualized course.
Introduces WordPerfect software on the Macintosh. Explores word processing features needed to retrieve, revise, format, and print documents.

CIOS A115K Ami Pro Word Processing 1 CR
Contact Hours: 1 + 0
Registration Restrictions: CIOS A100 or keyboarding skill of at least 30 WPM.
Special Note: May be offered as open entry/open exit course.
Instruction and practice in the use of Ami Pro for Windows software for word processing.

CIOS A116A Introduction to Desktop Publishing On Mac 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A107A.
Special Note: A student may not apply elective credit toward a certificate or degree from both CIOS 116A and CIOS 338.
Introduction to using a desktop publishing package. Students will produce publications by placing text and graphics created with other applications. Design elements will also be discussed.

CIOS A116B Introduction to Desktop Publishing On IBM 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A100.
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.

CIOS A117A Electronic Research Methods 1 CR
Contact Hours: 1 + 0
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. Modem-equipped computers will be demonstrated.

CIOS A119 Exploring the Internet 1 CR
Contact Hours: 1 + 0
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.

CIOS A160 Business English 3 CR
Contact Hours: 3 + 0
Develops skills in English fundamentals with emphasis on language usage. Intensive study of grammar, punctuation, capitalization, spelling, word usage, and sentence structure.

CIOS A161 Business Math 3 CR
Contact Hours: 3+0 or 0+6
Registration Restrictions: Qualifying exam and faculty signature for open-entry class only.
Special Note: Students supply own calculators or use college equipment. May be offered as either classroom or open-entry, individualized course.
Business math fundamentals and concepts to aid in business classes, jobs, and personal lives. Business math applications in banking, marketing, accounting, and finance. Instruction in solving problems with calculating machines.

CIOS A162 Payroll Procedures 1 CR
Contact Hours: 0 + 2
Special Note: Each student is expected to complete a minimum of 30 hours in the lab.
Realistic activities introduce the student to preparation of payroll records and tax returns. Up-to-date payroll information and tax forms are used for practice.

CIOS A165 Office Procedures 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A100.
Duties and responsibilities of general office employees. Includes filing, effective mail processing, telephone communication, meeting the public, office supplies, banking, employment procedures, and grooming.

CIOS A166 Filing 1 CR
Contact Hours: 0 + 2
Special Note: Open-entry, individualized course.
Study of filing procedures and basic records management principles. Practice in alphabetic filing rules and introduction to subject, numeric, and geographic filing systems.

CIOS A167 Proofreading 1 CR
Contact Hours: 1+0 or 0+2
Prerequisites: CIOS A100 and CIOS A160.
Special Note: May be offered as either classroom or open-entry, individualized course.
Instruction and practice in proofreading skills. Includes basic techniques of proofreading; review of grammar, punctuation, and spelling; and proofreading for content and usage.

CIOS A168 Shorthand 3 CR
Contact Hours: 3+0 or 0+6
Special Note: May be offered as either classroom or open-entry, individualized course.
Theory, reading and writing practice for rapid writing of office dictation or abbreviated notetaking.

CIOS A169 Shorthand Skill Building 1 CR
Contact Hours: 0 + 2
Prerequisites: CIOS A100 and CIOS A168.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for a maximum of 3 credits with only 1 credit per semester. Open-entry, individualized course.
Improves skills in taking and transcribing shorthand. Materials individualized to skill level of students.

CIOS A170 Calculators 1 CR
Contact Hours: 0 + 2
Special Note: Open-entry, individualized course.
Basic operation of electronic calculators with application in solving business problems.

CIOS A185 Introduction to Programming Business Applications 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A105.
Registration Restrictions: Basic typing and computer skills.
Special Note: Currently uses C as the programming language.
Business programming concepts and techniques required to produce business reports, process files with control break logic, program/code table handling and table look-up routines, and modularized large programs. Emphasis on structured program design, program testing and documentation for production.

CIOS A186 Basic Networking 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Basic typing and computer skills.
Developing skills and knowledge necessary for computer networking, including setting up a modem and logging on to computer networks, navigating the networks and utilizing electronic mail, Internet and several networks through UACN access.

CIOS A192 Seminars in Office Management and Technology 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Special Note: May be repeated for a maximum of 7 credits with a change of subtitle. Check schedules for specific offerings.
Specialized topics in office management and technology. Seminars include business English review, letter writing, personal communications in the office, job search techniques, better office skills and services, time management, work organization, editing, proofreading, spelling, managing stress and conflict, professional development and career advancement, effective listening and memory development, and personal finance.

CIOS A201 Programming Business Applications 4 CR
Contact Hours: 4 + 0
Prerequisites: CIOS A185 and [MATH A107 or MATH A270].
Special Note: Class requires 8-hour midterm and 8-hour final scheduled by department on weekends. Specific dates announced in class.
Training and practice in writing programs for business applications using C programming language. Emphasis on structured program design, program testing and certification, and documentation for production.

CIOS A202 Programming Business Applications with FORTRAN 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A107 or MATH A270.
Registration Restrictions: CIOS A185 recommended.
Writing programs in FORTRAN. Emphasis on multidimensional arrays/tables, modularizing programs using subroutines, and updating files. Also covers top-down design and structured methodology.

CIOS A209 Multimedia Applications 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A107A or CIOS A113B or CIOS A107.
Process of manipulating graphics, text, sound and digital video files and compiling them into a multimedia presentation.

CIOS A211A Advanced Lotus in DOS 1 CR
Contact Hours: 1+0 or 0+2
Prerequisites: CIOS A111A.
Special Note: May be offered as either classroom or open-entry, individualized course.
Concepts and techniques for construction of electronic spreadsheets and spreadsheet templates for business use. Application of Lotus 1-2-3 database commands, advanced use of functions and file commands, and an introduction to keystroke macros.

CIOS A211B Advanced Excel on Mac 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A111B.
Includes software applications in advanced areas covering the concepts and techniques for construction of electronic spreadsheets and spreadsheet templates.

CIOS A211D Advanced Excel in Windows 1 CR
Contact Hours: 1+0 or 0+2
Prerequisites: CIOS A111D.
Registration Restrictions: Keyboarding skill of at least 30 WPM.
Includes software applications in advanced areas covering concepts and techniques for construction of electronic spreadsheets and spreadsheet templates. Creations and applications of macros, styles, advanced printing, charting, graphics, databases, advanced functions, and outlining.

CIOS A212A Advanced dBASE III+ in DOS 1 CR
Contact Hours: 1+0 or 0+2
Prerequisites: CIOS A112A.
Special Note: May be offered as either classroom or open-entry, individualized course.
Students develop projects using dBASE III+.

CIOS A213A Advanced MS/DOS 1 CR
Contact Hours: 1+0 or 0+2
Prerequisites: CIOS A113A.
Special Note: May be offered as either classroom or open-entry, individualized course.
Additional fundamentals of the operating system and the interaction of hardware and software of an IBM or IBM compatible personal computer (PC). Advanced MS/DOS topics are taught in order to give the students a base of knowledge to work from to completely utilize the PC environment. Technically oriented course.

CIOS A214A Advanced Harvard Graphics 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A114A.
Use of graphics to import data from spreadsheets and export to a word processing or desktop publishing program. Includes 3-D graphics, freeform graphics, specialized graphic programs, and use of clip art symbols. Students will develop individual projects.

CIOS A215A Advanced WordStar in DOS 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A115A.
Continuation of CIOS 115A. Includes software applications in advanced areas such as repetitive letters, tables, reports, footnotes, and merging. Requires ability to solve problems, interpret work orders, and type from rough draft copy.

CIOS A215B Advanced DisplayWrite in DOS 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A115B.
Continuation of CIOS A115B. Includes software applications in advanced areas such as repetitive letters, tables, reports, footnotes, and merging. Requires ability to solve problems, interpret work orders, and type from rough draft copy.

CIOS A215D Advanced WordPerfect in DOS 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A115D.
Continuation of CIOS A115D. Includes software applications in advanced areas such as repetitive letters, tables, reports, footnotes, and merging. Requires ability to solve problems, interpret work orders, and type from rough draft copy.

CIOS A215E Advanced Microsoft Word in DOS 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A115E.
Continuation of CIOS A115E. Includes software applications in advanced areas such as repetitive letters, tables, reports, footnotes, and merging. Requires ability to solve problems, interpret work orders, and type from rough draft copy.

CIOS A215G Advanced Microsoft Word for Windows 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A115G.
Continuation of CIOS A115G. Includes software application in advanced areas.

CIOS A215H Advanced WordPerfect in Windows 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A115H.
Continuation of CIOS A115H. Includes software applications in advanced areas such as tables, reports, footnotes, columns, macros and merging. Requires ability to solve problems and type from rough draft copy.

CIOS A215J Advanced WordPerfect on Mac 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A115J.
Continuation of CIOS A115J. Includes software application areas such as repetitive letters, tables, reports, footnotes, and merging. Requires ability to solve problems, interpret work orders, and type from rough draft copy.

CIOS A216A Advanced Desktop Publishing on Mac 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A116A.
Special Note: A student may not apply elective credit toward a certificate or degree from both CIOS A216A and CIOS A338.
Continuation of desktop publishing fundamentals, features, and operations on the Macintosh computer system. All aspects of the publishing field are touched upon. Students will generate various graphics, charts and documents incorporating advanced drawing and graphing programs.

CIOS A216B Advanced Desktop Publishing on IBM 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A116B.
Continuation of desktop publishing fundamentals, features, and operations on a personal computer. All aspects of the publishing field are touched upon. Students will generate various graphics, charts and documents incorporating advanced drawing and graphing programs.

CIOS A221A Advanced Lotus Macros in DOS 1 CR
Contact Hours: 1+0 or 0+2
Prerequisites: CIOS A211A.
Special Note: May be offered as either classroom or open-entry, individualized course.
Design and use of macros in Lotus 1-2-3 spreadsheets. Covers keystroke macros and advanced macro command programming.

CIOS A223A Advanced MS/DOS Topics 1 CR
Contact Hours: 1+0 or 0+2
Prerequisites: CIOS A213A.
Special Note: May be offered as either classroom or open-entry, individualized course.
A continuation to the Microsoft disk operating system (MS/DOS). Includes advanced techniques of the operating system and the interaction of hardware and software on an IBM or compatible personal computer.

CIOS A225D Advanced WordPerfect Topics in DOS 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A215D.
Continuation of CIOS A215D. Includes skills to produce documents using graphics and desktop publishing features; create reports and term papers using endnotes, footnotes, references, indexing, outlining features and customize certain features in WordPerfect.

CIOS A225H Advanced WordPerfect Topics in Windows 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A215H.
Offered only at Matanuska-Susitna College.
Designed to deal with information systems, communications technology, modern office applications, or related fields in which learning to use word processing software as a productivity tool is necessary. Students with significant microcomputer background, as well as basic WordPerfect skills, will understand and utilize the more advanced word processing features through the use of WordPerfect.

CIOS A245 Using Hypertext Markup Language 1 CR
Contact Hours: 1 + 0
Prerequisites: CIOS A119.
Grade Mode: Pass/No Pass.
Hypertext Markup Language (HTML) is the source language for every page/document formatted for the World Wide Web (WWW). Students will learn to create and post their own Web pages using the major HTML structural elements. Sound design principles will be emphasized.

CIOS A250A Machine Transcription A 1 CR
Contact Hours: 0 + 2
Registration Restrictions: CIOS A100 or keyboarding skill of 30 wpm; and CIOS A160 or ENGL A111 or pass CIOS written exam; and 1 credit of any CIOS A115 course.
Special Note: Open-entry, individualized course.
Introduces machine transcription for students with no previous experience. Includes review of English grammar and punctuation.

CIOS A250B Machine Transcription B 1 CR
Contact Hours: 0 + 2
Registration Restrictions: CIOS A250A or demonstrated transcript ability.
Special Note: Open-entry, individualized course.
Emphasizes mailable copies, review of language skills and vocabulary.

CIOS A251 Medical Transcription 3 CR
Contact Hours: 0 + 6
Registration Restrictions: CIOS A260 or keyboarding skill of at least 40 WPM.
Offered only at Kenai Peninsula College.
Emphasizes accuracy and speed in transcribing medical dictation. Develops ability to produce accurate medical data through a broad knowledge of medical terms, drugs, and instruments, as well as acceptable initials and abbreviations for medical terminology. Also develops familiarity with various types of medical reports and records.

CIOS A252 Legal Transcription 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: CIOS A260 or keyboarding skill of at least 40 WPM.
Machine transcription of client and court documents prepared in the law office.

CIOS A260 Keyboarding II 3 CR
Contact Hours: 3+0 or 0+6
Prerequisites: CIOS A100 or [CIOS A100A and CIOS A100B and CIOS A100C].
Registration Restrictions: Or keyboarding skill of at least 30 WPM and 1 credit of any CIOS A115 course.
Special Note: May be offered as either classroom or open-entry, individualized course.
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.
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.
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.
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.
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.
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.
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
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 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.
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
Registration Restrictions: Admission to upper-division standing.
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 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to upper-division standing.
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 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to upper-division standing.
Covers principles of database management systems including concepts and design, methods of file organization, data structures, query languages and micro to mainframe database environments. Students will be expected to design and implement a database project during the semester.

CIOS A338 Desktop Publishing and Design 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A107A.
Special Note: A student may not apply elective credit toward a certificate or degree from both CIOS A216A and CIOS A338.
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 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A201.
Registration Restrictions: Admission to upper-division standing.
Students will write advanced business application programs using client-server development tools and structured language to interface with DBMS software for interactive processing. Emphasis on structured program design, program testing and certification, and documentation for production.

CIOS A345 Managing Data Communication and Computer Networks 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A201.
Registration Restrictions: Admission to upper-division standing.
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 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A201.
Registration Restrictions: Admission to upper-division standing.
Special Note: Currently uses Visual Basic as the programming language.
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 and UNIX Environments 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A201.
Registration Restrictions: Admission to upper-division standing.
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 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A201.
Registration Restrictions: Admission to upper-division standing.
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 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to upper-division standing.
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 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ENGL A212 is recommended; College of Business & Public Policy majors must be admitted to upper-division standing.
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 CIOS Software Development Project 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Department permission required.
Special Note: May be taken more than once for credit. Maximum of 9 elective credits may be used for the BBA MIS degree. Check schedule for specific titles being offered.
Given design specifications in a simulated professional environment, students complete an MIS software development project. Emphasis is on software development and implementation using either a traditional programming language to develop a program, or installing and customizing a purchased software package.

CIOS A395 Programmer/Analyst Internship 1-3 CR
Contact Hours: 0 + 3-9
Registration Restrictions: Department permission required.
Grade Mode: Pass/No Pass.
Special Note: Requires a minimum of 45 hours of work for each credit. May be taken more than once for credit. Maximum of 3 internship credits may be used to meet program elective requirements.
Programmer/analyst work experience in an approved position.

CIOS A410 Project Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to upper-division standing.
Covers building the project plan, determining work flow and project duration, risk analysis and contingency plans, scheduling activities and resources, controlling work in progress, reporting to the user and upper management, and automated project management systems.

CIOS A420 Consulting and Training End Users 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to upper-division standing.
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.
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.
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.
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.
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 A310.
Registration Restrictions: Upper-division standing.
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.
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.
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.
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.
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.
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.

CIOS A690 Current Topics in Information Technology 3 CR
Contact Hours: 3 + 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 information technology.

COMMUNICATION - COMM

Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4397

COMM A101 Introduction to Human Communication 3 CR
Contact Hours: 3 + 0
Introduces basic perspectives, methods, and theories about communication. Topics include rhetoric, gender, argumentation, interviewing, research methods, performance studies, and relational and organizational communication.

COMM A111 Fundamentals of Oral Communication 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Oral Communications
A survey of communication principles, theories, and skills including interpersonal communication, small group communication, and public speaking. Students develop oral communication skills through practice in a variety of individual activities, group activities, and individual and group presentations.

COMM A235 Small Group Communication 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Oral Communications
The study of theories and skills related to small group communication. Emphasis is on the communicative skills involved in group relationships and group decision making processes. Students will develop oral communication skills by engaging in practice in a variety of individual exercises and presentations, and group presentations.

COMM A236 Interviewing 3 CR
Contact Hours: 3 + 0
Examines theories and individual responsibilities in informational, employment and persuasive interviews. Practice of face-to-face interpersonal communication relationships through role-playing in class.

COMM A237 Interpersonal Communication 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Oral Communications
The study of theories and skills related to dyadic communication and the variables which affect it, including conflict, culture, gender, rules, and context. Students will develop oral communication skills designed to improve communication in relationships by engaging in a variety of individual exercises, individual presentations, and group presentations.

COMM A241 Public Speaking 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Oral Communications
The study of theories and skills applicable to informative, persuasive, and special occasion platform speaking. Emphasis is on effective selection, organization, and presentation of material to diverse audiences across diverse settings. Students will develop oral communication skills by engaging in a variety of exercises and individual presentation.

COMM A305 Intercultural Communication 3 CR
Contact Hours: 3 + 0
Prerequisites: [COMM A101 or COMM A111 or COMM A235 or COMM A237].
Explores theories, perspectives, and experiences of communication in intercultural and cross-cultural relations.

COMM A320 Debate and Deliberation 3 CR
Contact Hours: 3 + 0
Prerequisites: [COMM A101 or COMM A111 or COMM A241].
Learning to understand and discuss controversial topics Fact-finding and presentation of information that relates to and supports one side of a controversial topic. Classroom experience in speech presentation and decision making based on factual presentations and logical conclusions.

COMM A340 Nonverbal Communication 3 CR
Contact Hours: 3 + 0
Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237 or COMM A241.
Covers theoretical and research literature pertinent to nonverbal communication behavior. Focuses on the persuasive role that movement plays in the formal and informal communication process.

COMM A346 Oral Interpretation 3 CR
Contact Hours: 3 + 0
Prerequisites: [COMM A101 or COMM A111 or COMM A235 or COMM A237 or COMM A241].
Theory and practice of the art of oral interpretation to stimulate an understanding and responsiveness to prose, poetry and drama, and to develop the ability to convey to others, through oral readings, an appreciation of literature.

COMM A360 Forensics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Prior experience in public speaking and faculty permission.
Special Note: May be repeated once for credit.
Advanced study for competitive speakers. Emphasis on individual competitive events: informative speaking, extemporaneous speaking, impromptu speaking, oratory, communication analysis, readers' theater, debate, and oral interpretation of literature. Students develop competition-worthy speeches with faculty guidance.

COMM A380 Theories of Human Communication 3 CR
Contact Hours: 3 + 0
Prerequisites: [COMM A101 or COMM A111 or COMM A235 or COMM A237 or COMM A241].
Covers major communication theories, principles, and research paradigms in interpersonal, group, organizational, and public contexts.

COMM A390 Selected Topics in Communication 3 CR
Contact Hours: 3 + 0
Special Note: May be repeated once for credit with a change of subtitle.
Selected topics in communication arising from special circumstances of demand or faculty expertise. Specific titles as announced.

COMM A412 Persuasion 3 CR
Contact Hours: 3 + 0
Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237 or COMM A241.
Explores history, modern theory, and practical application of persuasion theory. A review of current literature, examination of persuasion in interpersonal, organizational, and public contexts.

COUNSELING - COUN

Undergraduate courses offered through the Advising and Counseling Center
Business Education Building (BEB), Room 115, 786-4500

Graduate courses offered through the College of Health, Education & Social Welfare Classroom Building K (K), Room 216, 786-4401

COUN A101 Introduction to Career Exploration 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Special Fees.
An introduction to career exploration. Includes exploring self-concept, values, interests, skills, aptitudes, work orientation, occupational information and decision making.

COUN A107 Managing Stress 1 CR
Contact Hours: 1 + 0
Examines general causes of stress and effective methods to eliminate or manage stress in your own life.

COUN A108 Improving Communication in Relationships 3 CR
Contact Hours: 3 + 0
Increases awareness of how individuals communicate and relate to other significant people in their lives. Teaches specific skills in styles and patterns of communication. How to effectively resolve issues and conflicts in relationships.

COUN A208 Career Planning and Changing 3 CR
Contact Hours: 3 + 0
Presents an innovative approach to career/life planning and job hunting. Emphasizes self-awareness and an ongoing process to define who you are and what you want from life. Includes skills identification, prioritizing, information gathering, resume writing, interviewing, salary negotiations and techniques to control the job hunt.

COUN A209 Information Interviewing for the Job Hunt 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: COUN A208.
Individualized interviewing for information/creating your own job as taught in COUN 208. Includes identifying sources of information, identifying and approaching persons with the power to hire, utilizing your contacts, and developing and presenting job proposals. Students research organizations/fields of their choice and apply these principles.

COUN A610 Foundations in Counseling 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Overview of the professional, ethical, legal, theoretical, and practical aspects of professional counseling. Examines the roles and responsibilities of a variety of counseling professions; professional organizations and associations; and professional preparation standards and credentialing. Historical and social contexts along with emerging professional directions are included.

COUN A611 Roles and Responsibilities of the Elementary Counselor 3 CR
Contact Hours: 3 + 0
Prerequisites: COUN A610.
Registration Restrictions: Admission into the Counseling and Guidance Program.
Professional roles and program components of a comprehensive developmental counseling program at an elementary school. Knowledge and skill development to implement the Alaska School Counseling Program, based on national standards, will be the focus.

COUN A614 Counseling Diverse Populations 3 CR
Contact Hours: 3 + 0
Prerequisites: COUN A616 and COUN A623.
Registration Restrictions: Admission into the Counseling and Guidance Program.
Explores emerging issues in counseling and builds on knowledge and skills of the novice or practicing counselor. Relevant areas of concern include counseling diverse populations, understanding family systems, improving counseling techniques, and advancing professional knowledge.

COUN A615 Roles and Responsibilities of a Secondary School Counselor 3 CR
Contact Hours: 3 + 0
Prerequisites: COUN A610.
Registration Restrictions: Admission to the Counseling and Guidance Program.
Professional roles and program components of a comprehensive developmental counseling program at a secondary school. Knowledge and skill development to implement the Alaska School Counseling Program, which is based on national standards will be the focus.

COUN A616 Counseling Theories 3 CR
Contact Hours: 3 + 0
Prerequisites: COUN A610.
Registration Restrictions: Admission to the Counseling and Guidance Program.
Survey of the major theoretical systems of counseling including psychodynamic, cognitive, behavioral, family system, phenomenological, existential, and non-western approaches to healing and mental health. Integration of theories and techniques to form one's own theoretical foundation as well as multicultural and ethical issues in counseling are stressed. Course requires extensive reading and an ability to synthesize and logically discuss abstract concepts.

COUN A623 Counseling Skills 3 CR
Contact Hours: 3 + 0
Prerequisites: COUN A610 and COUN A616.
Registration Restrictions: Admission into the Counseling and Guidance Program.
Emphasizes development and mastery of attending, exploring, and problem solving counseling skills with focus on the helping relationship. Students participate in video taped interviews to practice and refine counseling skills and techniques.

COUN A624 Group Counseling 3 CR
Contact Hours: 3 + 0
Prerequisites: COUN A610 and COUN A616.
Registration Restrictions: Admission into the Counseling and Guidance Program.
Presents an overview of basic elements of group process, with a focus on stages of group development. The course is a combination of didactic and experiential elements. Focus is on the stages in the evolution of groups. Multicultural and ethical issues related to the group process are emphasized.

COUN A632 Career Development 3 CR
Contact Hours: 3 + 0
Theory and practice in career development. Emphasis on relating career development to the changing world and processes for infusing career development into the curriculum, kindergarten through adult. Seminar format.

COUN A633 High Risk Issues for Youth 3 CR
Contact Hours: 3 + 0
Designed to prepare counselors and educators who work with youth. The course will address substance abuse, child abuse, violence, and related areas that pose high risk for youth. Prevention, intervention, and postvention strategies will be emphasized. The course is appropriate for counselors, regular/special education teachers, administrators, and related services personnel within Alaska.

COUN A634 Counseling Practicum I 3 CR
Contact Hours: 0 + 9
Prerequisites: COUN A623 and COUN A624 and [COUN A611 or COUN A615].
Registration Restrictions: Admission to the Counseling and Guidance Program. Department permission required.
The culminating activity of counselor preparation. Applied techniques focus on specific counseling strategies and intervention issues as well as problems encountered in specific school or agency settings. The counselor candidate works in a variety of therapeutic settings and experiences the real situation of a counselor.

COUN A636 Counseling Practicum II 3 CR
Contact Hours: 0 + 9
Prerequisites: COUN A623 and COUN A624 and [COUN A611 or COUN A615] and (COUN A634 or concurrent enrollment).
Registration Restrictions: Admission into the Counseling and Guidance Program. Department permission required.
The culminating activity of counselor preparation. Applied techniques course focusing on specific counseling techniques and intervention issues as well as problems encountered in specific school or agency settings. The counselor candidate works in a variety of therapeutic settings and experiences the real situation of a counselor.

COMPUTER SCIENCE - CS

http://saturn.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 taking any Computer Science course will be charged a single lab fee of $20 for the semester. Does not apply to Eagle River, Ft. Richardson, Elmendorf, or extended site offerings.

CS A100 Introduction to Computers 3 CR
Contact Hours: 3 + 0
Special Note: Not to be taken for credit by Computer Science Majors or minors.
An introductory course in computers and computing intended for non-Computer Science Majors and minors. Includes an introduction to programming languages such as BASIC or LOGO. Emphasis is on vocabulary and concept development needed to be an effective computer user.

CS A101 Introduction to Computer Science 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Two years of high school algebra or MATH A105 with a grade of C or higher.
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.

CS A105 FORTRAN Programming 3 CR
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.

CS A106 BASIC Programming 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Two years of high school algebra or equivalent with a grade of C or better.
Practice and use of the algorithmic approach to logical reasoning using graphic display of algorithms in flowchart form and coding instructions in BASIC the language.

CS A107 Pascal Programming 3 CR
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.

CS A108 Introduction to COBOL 3 CR
Contact Hours: 3 + 0
Special Note: Not to be taken for credit by Computer Science Majors or minors in the Information Systems Option.
Training and practice in writing programs in the COBOL language. Emphasis on problem solving with a computer: analysis, testing/debugging, and documentation.

CS A109 Selected Computer Languages 3 CR
Contact Hours: 3 + 0
Registration Restrictions: 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.).

CS A201 Programming Concepts I 3 CR
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.

CS A202 Programming Concepts II 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A201.
Introduction to data structures and algorithm development.

CS A207 C Programming 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A107 or CS A201 or CS A105.
Training and practice in writing programs in the C programming language.

CS A220 Hardware Concepts I 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A101 and [MATH A107 or MATH A270].
Techniques for designing and analyzing digital circuits, both combinational and sequential. Introduction to computer architecture.

CS A221 Hardware Concepts II 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A220 and CS A201.
Intermediate computer organization and assembly level programming.

CS A310 Numerical Methods 3 CR
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.

CS A315 Information Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A202.
Analysis, documentation and design of information systems within corporate operating environments.

CS A320 Operating Systems 3 CR
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.

CS A330 Data Structures and Algorithms 3 CR
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.

CS A331 Programming Language Concepts 3 CR
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.

CS A360 Database Systems 3 CR
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.

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 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 course offerings.

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 Computer and 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.
Applications and rationale. Design and analysis of discrete simulation models. Generation of random sequences and stochastic variates.

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.
Instruction 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 his/her committee chairman. Independent study with grade determined by project which the student presents (and defends) to his/her 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.

CS A670 Computer Science for Software Engineers 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required.
In-depth survey of the theoretical underpinnings of computer science. Topics are taken from the areas of algorithms and data structures; computer architecture; networking, operating systems; computability and formal languages; programming languages; and compilers.

CS A671 Advanced Software Engineering 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required.
Software design as an engineering discipline. The various phases of software development are covered: planning analysis, design, implementation, testing, and maintenance. The phases are examined across the spectrum from small scale to very large scale projects.

CS A690 Advanced Topics in Computer Science 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Faculty permission required.
An advanced topic in computer science. Topic and number of credits are determined at the time of course offering. The course may be repeated for credit with change of subtitle.

CREATIVE WRITING & LITERARY ARTS - CWLA

http://www.uaa.alaska.edu/cwla/
Offered through the College of Arts and Sciences
Eugene Short Building (ESB), Room 211, 786-4330

CWLA A259 Short Format Introduction to Creative Writing 1 CR
Contact Hours: 1 + 0
Prerequisites: ENGL A111.
Special Fees.
Special Note: May be repeated up to six times for credit.
Introduction to one type of creative writing conducted in short one credit workshops.

CWLA A260A Introduction to Creative Writing: Multiple Forms 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Special Note: May be repeated twice for credit.
Introduction to two or more types of creative writing and close analysis of each student's work.

CWLA A260B Introduction to Creative Writing: Poetry 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Special Fees.
Special Note: May be repeated 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
Prerequisites: ENGL A111.
Special Fees.
Special Note: May be repeated 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
Prerequisites: ENGL A111.
Special Note: May be repeated 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
Prerequisites: ENGL A111.
Special Fees.
Special Note: May be repeated twice for credit
Introduction to techniques of nonfiction writing, with close analysis of each student's work.

CWLA A260F Introduction to Creative Writing: Children's Stories 3 CR

Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Special Note: May be repeated 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
Prerequisites: ENGL A111.
Special Fees.
Special Note: May be repeated 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
Prerequisites: ENGL A111.
Special Fees.
Students edit and prepare manuscripts for publication, layout magazine pages for the printer, and learn about other aspects of magazine production. Students solicit, evaluate, and select material appropriate for a literary magazine: short stories, poetry, essays, artwork, etc. The course will also cover publicity, marketing, and distribution of the finished publication.

CWLA A352 Undergraduate Writer's Workshop: Poetry 3 CR

Contact Hours: 3 + 0
Registration Restrictions: One undergraduate writing workshop (200- or 300-level) and permission of instructor.
Special Fees.
Special Note: May be repeated for credit.
Practice in writing poetry, with close analysis of each student's work.

CWLA A362 Undergraduate Writer's Workshop: Fiction 3 CR

Contact Hours: 3 + 0
Registration Restrictions: One undergraduate writing workshop (200- or 300-level) and permission of instructor.
Special Fees.
Special Note: May be repeated for credit.
Practice in writing fiction, with close analysis of each student's work.

CWLA A372 Undergraduate Writer's Workshop: Nonfiction 3 CR

Contact Hours: 3 + 0
Registration Restrictions: One undergraduate writing workshop (200- or 300-level) and permission of instructor.
Special Fees.
Special Note: May be repeated for credit.
Practice in writing of literary nonfiction, with close analysis of each student's work.

CWLA A382 Undergraduate Writer's Workshop: Drama for Stage and Screen 3 CR

Contact Hours: 3 + 0
Registration Restrictions: One undergraduate writing workshop (200- or 300-level) and faculty permission.
Special Fees.
Special Note: May be repeated for credit.
Study and practice in writing drama for stage and screen with close analysis of each student's work.

CWLA A461 Writing and Gender 3 CR

Contact Hours: 3 + 0
Registration Restrictions: One 200- or 300-level literature class, or a 300-level CWLA writing workshop.
An examination across genres of issues and writing in their historical and political contexts. Emphasizes the discovery and analysis of common themes, narratives, and strategies in women's writing and how they compare to writing within masculine traditions.

CWLA A490 The Writer's Craft 3 CR

Contact Hours: 3 + 0
Registration Restrictions: One 200- or 300-level literature class, or a 300-level CWLA writing workshop.
Special Note: May be repeated for credit with a change in subtitle.
An examination of one or more forms of literary art, emphasizing formal elements discernible in craft and theory as it applies to both style and content.

CWLA A499 Thesis 3 CR

Contact Hours: 0 + 9
Registration Restrictions: Faculty permission.
Compilation of CWLA Minor with Distinction candidate's best creative writing. Includes an analysis and defense introducing the main body of original writing by the student.

CWLA A650A Creative Writing Internship 3 CR

Contact Hours: 0 + 20
Registration Restrictions: Students must be MFA candidates nominated by the Creative Writing and Literary Arts faculty and graduate standing.
Special Note: May be repeated once for credit.
An internship for students in the MFA Program. Students selected for this internship will work with the editor of Alaska Quarterly Review. Students assigned to AQR will learn how to produce, manage and edit a nationally recognized literary journal.

CWLA A650B Creative Writing Internship 3 CR

Contact Hours: 0 + 12
Registration Restrictions: Students must be MFA candidates nominated by the Creative Writing and Literary Arts faculty and graduate standing.
Special Note: May be repeated once for credit.
An internship for students in the MFA Program. Students selected for this internship will work with the 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.

CWLA A650C Creative Writing Internship 3 CR

Contact Hours: 0 + 12
Registration Restrictions: Students must be MFA candidates nominated by the Creative Writing and Literary Arts faculty and graduate standing.
Special Note: May be repeated once for credit.
An internship for students in the MFA Program. Students selected for this internship will work as editors of Inklings, the campus literary magazine. They will supervise all aspects of the magazine and make editorial decisions concerning the contents of the magazine. They will also mentor undergraduates on the staff and/or undergraduates who are contributors to the magazine, as appropriate.

CWLA A652 Graduate Writer's Workshop: Poetry 3 CR

Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required and graduate standing.
Special Fees.
Special Note: May be repeated for degree credit.
Advanced study and practice of the forms and techniques of poetry with close analysis of each student's work.

CWLA A662 Graduate Writer's Workshop: Fiction 3 CR

Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required and graduate standing.
Special Fees.
Special Note: May be repeated for degree credit.
Advanced study and practice in the writing of various fictional forms with close analysis of each student's work.

CWLA A672 Graduate Writer's Workshop: Prose Nonfiction 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required and graduate standing.
Special Fees.
Special Note: May be repeated for degree credit.
Advanced study and practice of the forms and techniques of nonfiction prose with close analysis of each student's work.

CWLA A682 Graduate Writer's Workshop: Drama for Stage and Screen 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required and graduate standing.
Special Fees.
Special Note: May be repeated for degree credit.
Advanced study and practice of various dramatic structures of stage and screen with close analysis of each student's work. Emphasis will be on the process of developing work for production.

CWLA A690 Form and Theory 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Special Note: May be repeated with change of subtitle.
A graduate level examination of one or more forms of literary art emphasizing formal elements discernible in craft and theory as it applies to both style and content.

CWLA A698 Individual Research 1-6 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
The student conducts an individual research project under the close supervision of an instructor.

CWLA A699 Thesis 1-6 CR
Contact Hours: 0 + 3-18
Registration Restrictions: Faculty permission.
Special Note: May be repeated for credit.
Book-length collection of the graduate student's creative work introduced by an in-depth analytical essay addressing the body of the creative work in terms of process, craft, and theory. Also part of the thesis evaluation is an annotated bibliography and the oral defense of the thesis.

DENTAL ASSISTING - DA

Offered through the Community & Technical College
Allied Health Science Building (AHS), Room 160, 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 A121 and DA A123 and DA A110 and (DA A125 or concurrent enrollment).
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.
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.
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.
Introduces the responsibilities of the dental assistant or dental practice management assistant and professionalism and related topics.

DA A128 Dental Communication Skills 2 CR
Contact Hours: 2 + 0
Special Fees.
Introduces patient management, special needs patients, oral and written communication and applied psychology in the dental office setting.

DA A195A Dental Assisting Practicum I 1 CR
Contact Hours: 0 + 6
Prerequisites: (DA A110 or concurrent enrollment) and (DA A121 or concurrent enrollment) and (DA A123 or concurrent enrollment) and (DA A124 or concurrent enrollment) and (DA A128 or concurrent enrollment).
Grade Mode: Pass/No Pass.
Special Fees.
Orientation and practice in dental assisting techniques under supervision in local dental offices and clinics. Emphasizes further development of chairside assisting skills. Students will spend 80-85 hours in an off-campus facility.

DA A195B Dental Assisting Practicum II 3 CR
Contact Hours: 0 + 16
Prerequisites: DA A195A and (DA A122 or concurrent enrollment) and (DA A125 or concurrent enrollment) and (DA A126 or concurrent enrollment).
Grade Mode: Pass/No Pass.
A clinical, off-campus course for dental assisting students who have completed all program requirements in the fall and spring semesters. Students are placed in general and specialty dental offices. Direct supervision is provided by the participating dentist and program faculty. Seminars are held to discuss student progress and experiences.

DENTAL HYGIENE - DH

Offered through the Community & Technical College
Allied Health Science Building (AHS), Room 124, 786-6929

DH A111 Periodontics I 2 CR
Contact Hours: 2 + 0
Special Fees.
Introduction to embryology and histology of the periodontal tissues. Includes discussion on dental accretions and cariology.

DH A112 Techniques I for Dental Hygienists 7 CR
Contact Hours: 3 + 8
Registration Restrictions: Current BLS Certification.
Special Fees.
A pre-clinical course introducing basic dental hygiene procedures to include data gathering, patient education and basic instrumentation. Emphasis is placed on skill development in basic instrumentation and infection control.

DH A113 Issues for Dental Hygiene 1 CR
Contact Hours: 1 + 0
Special Fees.
Introduces ethical and legal concerns of the dental hygiene profession. Patient management and teamwork are discussed.

DH A114 Anatomy of the Orofacial Structures 2 CR
Contact Hours: 2 + 0
Special Fees.
Provides students with knowledge to perform technical skills within the oral cavity. In particular, those relating to dental screening and record taking.

DH A121 Periodontics II 2 CR
Contact Hours: 2 + 0
Introduction to periodontal disease. Emphasis placed on recognition of periodontal disease and treatment planning.

DH A122 Techniques II for Dental Hygienists 4 CR
Contact Hours: 2 + 4
Prerequisites: DH A112.
Registration Restrictions: Current BLS Certification.
Introduces adjunctive techniques used in dental hygiene treatment. Basic manipulation of dental materials. Emphasis is placed on care of materials and restorations that are encountered intraorally during dental hygiene treatment. Radiology lab provides opportunity to develop competence in exposing radiographs on patients under direct faculty supervision.

DH A165 Pharmacology for Dental Hygienists 2 CR
Contact Hours: 2 + 0
General concepts of pharmacology, nature of drug reactions, individual response to drugs, principles of neuropharmacology, toxicology, anti-infective therapy, effect of drugs on cardiovascular, endocrine and other body systems. Emphasis is placed on drugs used in dentistry.

DH A192 Clinical Seminar I 1 CR
Contact Hours: 0 + 3
Corequisite: DH A195.
Discussion and evaluation of clinical experiences encountered in DH A195. Emphasis is placed on review of treatment plans and case presentation.

DH A195 Clinical Practicum I 4 CR
Contact Hours: 0 + 12
Registration Restrictions: Current BLS certification, department permission, and immunizations.
Corequisite: DH A192.
Provides opportunity for student to achieve clinical skill competency with individuals presenting themselves as periodontally healthy or with signs of gingivitis.

DH A211 Current Periodontal Therapies 2 CR
Contact Hours: 2 + 0
Special Fees.
Develops familiarity with current nonsurgical and surgical techniques in the treatment of periodontal disease. Nutrition and immunology as it relates to periodontal diseases are discussed. Case presentations made by students.

DH A212 Techniques III for Dental Hygienists 3 CR
Contact Hours: 1 + 4
Registration Restrictions: Current BLS certification.
Special Fees.
Advanced dental hygiene instrumentation and intraoral techniques. Provides for discussion of patients with special needs.

DH A214 Pathology of Oral Tissues 2 CR
Contact Hours: 2 + 0
Special Fees.
Includes the signs, symptoms, contagion recognition of selected diseases of the oral cavity and systemic diseases that manifest themselves in the oral cavity.

DH A224 Principles of Dental Health 3 CR
Contact Hours: 2 + 3
Provides a broad understanding of community dental health and dental epidemiology. Students develop and implement a basic community dental health project.

DH A292A Clinical Seminar II 1 CR
Contact Hours: 0 + 3
Corequisite: DH A295A.
Special Fees.
Discussion and evaluation of clinical experiences encountered in DH A295A. Emphasis is placed on review of treatment plans and case presentations of patients exhibiting early periodontal disease.

DH A292B Clinical Seminar III 1 CR
Contact Hours: 0 + 3
Corequisite: DH A295B.
Discussion and evaluation of clinical experiences encountered in DH A295B. Emphasis is placed on review of treatment plans and case presentations of patients exhibiting moderate to advanced periodontal disease.

DH A295A Clinical Practicum II 5 CR
Contact Hours: 0 + 15
Registration Restrictions: Current BLS certification, department permission, and immunizations.
Corequisite: DH A292A.
Special Fees.
Provides opportunity for students to achieve clinical skill competency with individuals presenting themselves with mild to moderate periodontal disease. This course is conducted in a clinical setting with volunteer patients and individualized instruction.

DH A295B Clinical Practicum III 6 CR
Contact Hours: 0 + 18
Registration Restrictions: Current BLS certification, department permission, and immunizations.
Corequisite: DH A292B.
Provides opportunity for student to achieve clinical skill competency with individuals presenting themselves with moderate to advanced periodontal disease. Learning occurs through student practice and individualized instruction.

DH A310 Oral Pain Control 3 CR
Contact Hours: 1.5 + 3
Prerequisites: DH A195.
Registration Restrictions: The student must meet at least one of the following: a graduate dental hygienist from an ADA accredited dental hygiene program, a UAA second year dental hygiene student, or a licensed dental hygienist.
Special 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
Surveys the various alternative dental hygiene practice settings available to clinicians. Generally overviews the role the dental hygienist has in providing dental hygiene services within various health care systems.

DH A395 Clinical Practicum IV for Dental Hygienists 1-3 CR
Contact Hours: 0 + 3-9
Registration Restrictions: Graduated from an ADA accredited dental hygiene program or licensed as a dental hygienist. Current BLS certification.
Special Note: May be repeated for credit. No more than three credits will be applied to a degree program.
Students integrate and apply dental hygiene techniques through direct patient care. Synthesis of knowledge and skill competencies essential to dental hygiene practice are stressed. Emphasis is placed on comprehensive dental hygiene treatment.

DH A420 Community Dental Health 3 CR
Contact Hours: 1 + 6
Prerequisites: HS A379.
In various dental hygiene practice settings, the student participates in community health care planning and becomes acquainted with patterns for delivery of comprehensive health care services and the role of dental team members. Field assignments will be arranged on a contractual basis to meet the dental needs, goals and interests of the student. Regularly scheduled meetings will be held with the faculty to assess the progress of the project and evaluate the outcome.

DH A495 Alternative Practicum for Dental Hygienists 2 CR
Contact Hours: 0 + 6
Registration Restrictions: Graduate of an accredited Dental Hygiene Program; licensed in Alaska as a dental hygienist; BLS certification; immunizations.
Students will provide dental hygiene services and dental health education in selected dental health care settings. Sites include but are not limited to rural communities, correctional institutions, hospitals, nursing homes and community dental clinics. Students will be required to adhere to state and agency regulations concerning clinical supervision. Due to the seasonal nature of work in rural areas, rural assignments generally will be offered during the spring semester.

DIETETICS & NUTRITION - DN

Offered through the Community & Technical College
Lucy Cuddy Center (CUDY), 786-4728

DN A115 CNR-Normal Nutrition Counseling 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Special Note: This is a one week course.
This course, the first in a series of four, provides students with knowledge of basic applied nutrition and counseling techniques. Counseling opportunities are provided to allow students to practice skills learned in the classroom.

DN A116 CNR-Therapeutic Nutrition Counseling 1 CR
Contact Hours: 1 + 0
Prerequisites: DN A115.
Grade Mode: Pass/No Pass.
Special Note: This is a one week course.
This course, the second in a series of four, provides students with basic therapeutic knowledge and nutrition counseling techniques. Counseling opportunities are provided to allow students to practice skills learned in the classroom.

DN A117 CNR-Nutrition Education and Food Preservation 1 CR
Contact Hours: 1 + 0
Prerequisites: DN A115.
Grade Mode: Pass/No Pass.
Special Note: This is a one week course.
This class, the third in a series of four, provides students with knowledge of methods for planning and presenting group nutrition education talks, and food preservation methods.

DN A118 CNR-Community Resources and Problem Solving 1 CR
Contact Hours: 1 + 0
Prerequisites: DN A115 and DN A116 and DN A117.
Grade Mode: Pass/No Pass.
Special Note: This is a one week course.
This course, the fourth in a series of four, provides students with knowledge of communities nutrition resources and methods for community nutrition problem solving.

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
Focuses on the nutritional needs of the older person, based on physiological changes in aging, with nutritionally related diseases, procuring and preparing food, and assistive care. Designed for those preparing for careers in elderly care and for those interested in learning how to care for themselves in later years.

DN A303 Preventive and Therapeutic Nutrition 3 CR
Contact Hours: 3 + 0
Prerequisites: DN A203 with minimum grade of C.
Explores role of food and dietary habits in prevention of diseases such as hypertension, heart disease, cancer, and dental caries. Covers treatment of diabetes, alcoholic liver disease, obesity, anorexia nervosa, kidney disease, heart disease, and others by means of alterations in food consumption.

DANCE - DNCE

http://webserver.cts.uaa.alaska.edu/theatre/
Offered through the College of Arts and Sciences
Arts Building (ARTS), Room 332, 786-1792

DNCE A061 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 1 CR
Contact Hours: 1 + 1
Special Note: May be repeated three times for credit.
Introduction to elementary modern techniques for the avocational student with little or no background in modern dance. Simple exercises and combinations introduce fundamental modern dance positions, movements and terminology. Correct alignment stressed in basic exercises and elementary locomotor combinations.

DNCE A081 Elementary Jazz 1 CR
Contact Hours: 1 + 1
Special Fees.
Special Note: May be repeated three times for credit.
Introductory course in fundamentals of jazz dance for the avocational student with little or no dance background. Simple exercises and movement combinations introduce elementary fundamentals of jazz style and basic dance technique. Correct alignment is stressed throughout class.

DNCE A100 Introduction to Dance 1 CR
Contact Hours: 1 + 1
Introduction to the art and discipline of dance movement. Classes are geared to the level of the participants. Enhanced physical agility and knowledge of basic dance vocabulary are goals. Three short sections offered in ballet, modern and jazz.

DNCE A101 Fundamentals of Ballet I 2 CR
Contact Hours: 1 + 2
Special Fees.
Special Note: May be repeated three times for credit.
Beginning ballet technique introduced through barre and center floor work. Correct alignment and injury prevention stressed. Exploration of dance aesthetics and ballet philosophy as well as social and historical influences.

DNCE A102 Fundamentals of Ballet II 2 CR
Contact Hours: 1 + 2
Prerequisites: DNCE A101.
Special Note: May be repeated three times for credit.
Technical, verbal, and theoretical knowledge of ballet enhanced by acquisition of new skills for control and movement. Concepts of dance aesthetics and style plus interrelationships between music and dance. Emphasis on correct anatomical alignment and science of movement.

DNCE A121 Fundamentals of Modern Dance I 2 CR
Contact Hours: 1 + 2
Special Fees.
Special Note: May be repeated three times for credit.
Beginning modern dance techniques. Correct alignment and injury prevention stressed. Introduces basic dance skills through warm-up exercises, locomotor movements and simple combinations. Exploration of dance aesthetics and modern dance philosophy, and historical and social influences.

DNCE A122 Fundamentals of Modern Dance II 2 CR
Contact Hours: 1 + 2
Prerequisites: DNCE A121.
Special Fees.
Special Note: May be repeated three times for credit.
Modern dance techniques and vocabulary expanded by additional dance skills. Introduction of long warm-ups and movement combinations to increase body strength and flexibility. Exploration of modern dance 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.
Special Note: May be repeated three times for credit.
Basic jazz techniques including body isolations and syncopation. Correct alignment and injury prevention stressed. Warm-up exercises, locomotor movements and short combinations introduce skills necessary for jazz style. Exploration of dance aesthetics and jazz philosophy as well as social and historical influences.

DNCE A132 Fundamentals of Jazz II 2 CR
Contact Hours: 1 + 2
Prerequisites: DNCE A131.
Special Fees.
Special Note: May be repeated three times for credit.
Enhances technical, verbal, and theoretical knowledge of jazz. Warm-up exercises to promote strength and flexibility. Locomotor movements and dance combinations to challenge existing jazz style with multi-rhythms and isolations. Concepts of dance aesthetics and jazz cultural style applied to interrelationships between music and dance. Historical and social influences in jazz. Emphasis on correct alignment and injury prevention.

DNCE A145 Fundamentals of African/Haitian Dance 2 CR
Contact Hours: 1 + 2
Special Fees.
Special Note: May be repeated three times for credit.
Beginning course in African/Haitian dance technique. Fundamentals of West African and Haitian dance developed through warm-up exercises and movement combinations of actual ritual dances. History and ethnography of the dance stressed throughout class.

DNCE A151 Beginning Tap Dance I 1 CR
Contact Hours: 1 + 1
Special Fees.
Special Note: May be repeated three times for credit.
Learning and practicing basic tap dance steps and combinations. Begins with warm-up exercises at barre and across floor. Covers basic steps such as shuffle, flap, ball-change, front and back flaps.

DNCE A152 Beginning Tap Dance II 1 CR
Contact Hours: 1 + 0
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
Course Attributes: GER Fine Arts
Special Fees.
Introduction and survey of dance as nonverbal communication throughout time and culture. Exploration of the historical, cultural, social, creative and aesthetic influences in the development of Western concert dance and the current trends of dance in America.

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.
Concentration on specific techniques fundamental to expertise in classical ballet. Emphasis on development of balance and endurance, and on building a strong knowledge of steps in combinations. Performance style and correct alignment and injury prevention stressed. Serious ballet course requiring regular attendance.

DNCE A203 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 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 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 Dance I 2 CR
Contact Hours: 1 + 2
Prerequisites: DNCE A132.
Special Note: May be repeated three times for credit.
Increases student skill level and movement vocabulary in intermediate jazz dance technique. Jazz dance principles of poly-rhythms, syncopation and body isolations explored with emphasis on extended phrases and musicality. Correct alignment stressed throughout. Serious course requiring regular attendance.

DNCE A232 Intermediate Jazz Dance II 2 CR
Contact Hours: 1 + 2
Prerequisites: DNCE A231.
Special Note: May be repeated three times for credit.
Augmentation of skill level and movement vocabulary acquired in DNCE 231. Complex movement phrases with emphasis on musicality and performance style explored. Correct alignment and injury prevention stressed throughout.

DNCE A233 Advanced Jazz Dance I 2 CR
Contact Hours: 1 + 2
Prerequisites: DNCE A232.
Special Note: May be repeated three times for credit.
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 Modern Techniques, Composition and Repertory 1 CR
Contact Hours: 1 + 1
Registration Restrictions: Successful completion of two semesters training in ballet or jazz technique with two semesters in modern technique, or its equivalent, and faculty permission by audition required.
Special Fees.
Special Note: Class open by audition only.

An intensive three week course taught by a professional choreographer/performer. Class work includes modern dance technique, exploration of elements of composition, learning of performance skill, and repertory. First two weeks in class participation. Third week observation/discussion of the evolution of rehearsal into performance.

DNCE A265 Dance Repertory and Performance 2 CR
Contact Hours: 1 + 2
Registration Restrictions: One to two semester previous work in either jazz, modern or ballet and by audition.
Special Note: Requires serious attendance and additional rehearsals as required. May be repeated three times for credit.

Application of performing skills through repertory. Taught by various professionals and faculty focusing on learning and refining a short work of choreography in both the jazz and contemporary dance idiom. Culminates in a student performance with possibilities for other performances during semester.

EARLY CHILDHOOD DEVELOPMENT - ECD

Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 216, 786-4401

Students MUST be employed or be able to observe in a child development setting such as a child care center, preschool, family day care home, or Head Start, etc.

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 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 a 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 his or her 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 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.

ECONOMICS - ECON

http://www.scob.alaska.edu/DEGREES/econ.html
Offered through the College of Business & Public Policy
Consortium Building (LIB), Room 206, 786-1770

ECON A101 Introduction to Current Economic Problems 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 A201 Principles of Macroeconomics 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences

Introduction to economics; analysis and theory of national income; money and banking; public finance and taxation; and international trade. Primary concentration on the capitalist system and the United States economy.

ECON A202 Principles of Microeconomics 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201.
Course Attributes: GER Social Sciences

Theory of prices and markets; industrial organization; public policy; income distribution; and contemporary problems of labor and business.

ECON A300 The Economy of Alaska 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior or senior standing.

An introduction to the Alaska economy. Uses basic economic concepts to illustrate the Alaska economy. Includes a description of the sectors of the Alaska economy; an overview of the history of development; the economies of the state's urban and rural regions; and the important economic issues facing the state.

ECON A321 Intermediate Microeconomics 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202 and [MATH A200 or MATH A272].

Analysis of demand and supply under various market structures; theory of production and cost; factor pricing and theory of distribution; and survey of welfare economics.

ECON A324 Intermediate Macroeconomics 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202 and ECON A350.

Concepts and measurement of national income; analysis of aggregate demand and supply and their relationship to prices, employment, and growth.

ECON A337 Economic Development 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202.

Problems of economic development illustrated with case studies; theories of growth and development; and analysis of major policy issues. Emphasis is on third world countries.

ECON A350 Money And Banking 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202.
Sources and uses of money and credit in modern society; regulation of money and credit and its impact on the U.S. Economy.

ECON A351 Public Finance 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202.
Government taxation, borrowing, and spending; economic effects of taxation, and influence of fiscal policy on economic activity.

ECON A359 Industrial Organization and Public Policy 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202.
Analysis of different market structures and how these market structures impact resource allocation. Additional topics include social control of business through anti-trust and other government regulation; public policy issues in regulated industries, such as transportation, communications, electricity, and gas; and the economic and legal issues and problems arising from noncompetitive market conditions.

ECON A360 Modern Economic History 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A102 and ECON A201.
Crosslisted with: HIST A360.
Surveys economic history of the modern era (1800 to present). Emphasis will be placed on Western Europe and the U.S. Additional coverage will be given to Japan, the Soviet Union and one Third World Nation.

ECON A412 Econometrics 3 CR
Contact Hours: 3 + 2
Prerequisites: ECON A201 and ECON A202 and BA A273.
Application of statistical methods in testing economic theories and estimating economic relationships. Emphasizes multiple regression analysis. The student is expected to spend two hours per week utilizing the computer lab.

ECON A415 Urban and Regional Economics 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202.
Economic issues examined at subnational level, such as states, regions, and cities. Includes the location of economic activity in regions, relationship between regions, models of economic growth, the structure of regional economics, housing and land use issues, and urban and regional economic policy.

ECON A421 Labor Economics 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202.
Labor market analysis; employment and unemployment, wage differences, structure and composition of the labor force; economic aspects of unionism; labor legislation; and social insurance.

ECON A423 Comparative Economic Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202.
Contrasts in structures, institutions, and dynamics of selected private enterprises, collectivists, and underdeveloped economies.

ECON A425 History of Economic Thought 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202.
Registration Restrictions: 3 credits of upper-division courses in economics or other social sciences.
Economic thought from the physiocrats to the present; classical and neoclassical theory, exponents and critics; and contemporary development in economic theory.

ECON A429 Business Forecasting 3 CR
Contact Hours: 3 + 3
Prerequisites: ECON A201 and ECON A202 and CIOS A110 and BA A273.
Methods of business forecasting; theories and analysis of fluctuations in economic activity. The student is expected to spend two hours per week utilizing the computer lab.

ECON A430 Mathematics for Economists 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A321 and ECON A324 and [MATH A200 or MATH A272].
Application of calculus, matrix algebra, and probability theory in various areas of economics, including demand theory, production theory, optimization, and input-output analysis.

ECON A435 Economics of Resources 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202.
Economic analysis of resource use and development. Topics include economics of nonrenewable resources, forestry, and fisheries; environmental economics, and public resource management. Examples are presented of Alaska resource development and management experience.

ECON A454 Economics Internship 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A321 and ECON A324.
Registration Restrictions: Junior standing as an economics major; and permission of faculty and dean.
Work experience in an approved position with supervision and training in various phases of applied economics or economic research.

ECON A463 International Economics 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202.
Pure theory of international trade; comparative cost, terms of trade, and factor movements, international disequilibrium; balance of payments and its impact on national economy, capital movement, economic development through international trade.

ECON A488 Seminar in Economic Research 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Methods of economic research, based on analysis of recent economic research projects. Faculty and other researchers discuss research methodologies, problems encountered in carrying out research projects, and results obtained from their research. A formal paper is required.

ECON A602 Introduction to Economics for Managers 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Acceptance into the MBA program.
Special Note: Does not satisfy the minimum 30 credit hour requirement of any Master's degree program at UAA. Students are expected to have a working knowledge of computer spreadsheet programs.
Introduction to the theory of prices and markets; national income analysis; and money and banking. Primary concentration on the fundamentals useful in the management of business.

ECON A607 Public Finance and Taxation 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Role of government expenditures in light of welfare economics, direction, and development of expenditures; types of taxes, their distributional and allocative effects; pricing policies in government enterprises; compensatory finance; and the public debt.

ECON A620 Managerial Economics 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202 and BA A273 and MATH A272.
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.

ECON A625 Economics and Public Policy 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202.
An examination of economics in relation to public policy, both as a determinant of policy and a tool of administration.

ECON A626 Regional Economic Analysis 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A201 and ECON A202.
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.

ECON A628 Applied Economics 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A625.
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.

ECON A634 Petroleum Economics 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A435 or ECON A625.
Economics of petroleum exploration and extraction; review of public policies governing petroleum industry, import policies, tax concession, etc.

ECON A640 Economics of Transportation 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Economic aspects of the transportation industry with special emphasis on problems of regulation and public policy.

ECON A650 Alaska Economic Issues 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Bachelor's degree in Education.
Applies economic concepts and methodology to current issues related to Alaska's economic development. Includes the effects of changing oil revenues, passage of Alaska Native Claims Settlement Act, local hire legislation, changing state population, etc. Alaska business leaders representing relevant industries and institutions are utilized as speakers in order to involve participants in personal interaction with decision makers.

ECON A651 Selected Topics in Economics for Educators 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Bachelor's degree in Education.
Selected economics topics of special relevance to specific subjects in school curriculum, kindergarten through senior high school.

ECON A688 Seminar in Economic Research 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Methods of economic research based on analysis of recent economic research projects. Faculty and other researchers discuss research methodologies, problems encountered in carrying out research projects, and results obtained from their research. A formal paper is required.

EDUCATION - ED

http://www.uaa.alaska.edu/ed/
Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 216, 786-4401

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 A150 Apple for Teachers 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Special Fees.
Introduction to using Apple and Apple-compatible computers for teachers and others wishing to use microcomputers with children. Includes operating instructions, care and use of diskettes, choosing and evaluating software, and incorporating the computer into classroom activities.

ED A180 Beginning Sign Language 1 CR
Contact Hours: 1 + 0
Introductory training in manual communication methods used in the United States. Students will learn how to carry on basic communication with deaf persons via manual mode. Credit will be awarded upon demonstration of mastery of the materials.

ED A181 Intermediate Sign Language 1 CR
Contact Hours: 1 + 0
Prerequisites: ED A180.
Continued instruction in manual communication methods. Students will become fluent in the most commonly used methods of communicating with deaf persons. Credit will be awarded only upon demonstration of successful mastery of the competencies required in the course.

ED A192 Tutoring Adult Learners 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Matanuska-Susitna College.
A workshop on tutoring techniques/methods for adult learners. Exposes appropriate approaches suitable for teaching the adult learners. Activities include instruction and core competencies in basic education. Tutoring techniques include the "Laubach way to reading" and the "Ready to read" approach when teaching the adult learners. Activities include administering diagnostic tests and analyzing results in preparation of lesson plans for the adult learner and a review of literacy strategies for tutors teaching adults.

ED A200 Tutoring Lab 1-3 CR
Contact Hours: 0 + 2-6
Prerequisites: ED A200A.
Offered only at Kenai Peninsula College.
The goal of this course is to successfully tutor students. Introduction to tutoring lab serves as the practical experience for ED A200A, ED A200B, and ED A200C.

ED A200A Beginning Tutor Training Seminar 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Faculty permission.
Offered only at Kenai Peninsula College.
Students new to the tutor program develop skills for successfully helping students with their course work. Tutors learn and practice techniques for handling a variety of situations before tutoring begins. The framework for each semester tutor program is established during the course.

ED A200B Advanced Tutor Training Seminar 1 CR
Contact Hours: 1 + 0
Prerequisites: ED A200A.
Offered only at Kenai Peninsula College.
Advanced tutors will hone their skills through seminars, workshops and projects. Tutors may qualify for assisting their peers in academic courses, adult basic education, and English-as-a-Second-Language, or in public schools.

ED A200C Master Tutor Training Seminar 1 CR
Contact Hours: 1 + 0
Prerequisites: ED A200A and ED A200B.
Registration Restrictions: 2 credits of ED A200 and faculty permission. Specific tutoring assignments may have other requirements.
Offered only at Kenai Peninsula College.
Master tutors will hone their skills through seminars, workshops, and projects. Tutors may qualify for assisting their peers in academic courses, adult basic education, English-as-a-Second-Language, or in the public schools.

ED 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 A320 Foundations of Educational Technology 2 CR
Contact Hours: 1 + 2
Prerequisites: EDSE A312 or EDPE A338.
Registration Restrictions: Admission to the Teacher Education Program.
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.

ED A321 Instruction and Assessment 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A312 or EDPE A338 and (ED A320 or concurrent enrollment).
Registration Restrictions: Admission to the Teacher Education Program.
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.

ED A401 Social Studies for Elementary Teachers 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A336.
Registration Restrictions: All General Education Requirements and admission to the School of Education.
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.

ED A402 Secondary Methods: Science 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Acceptance into secondary education methods block. ED A487 or ED A687 must be taken concurrently and prior to student teaching.
Instructional techniques and methods appropriate to teaching science on the secondary level, including classroom management, lesson planning, research, and relevant aspects of statistical evaluations.

ED A403 Secondary Methods: Social Studies 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Admission into secondary education methods block. ED A487 or ED A687 must be taken concurrently and prior to student teaching.
A course to assist future social studies/history teachers to determine key ideas and concepts and prepare lessons and a unit combining concepts and strategies. The student will evaluate effectiveness of the strategies and concepts in actual classroom settings.

ED A404 Teaching Science in Elementary Schools 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A336.
Registration Restrictions: All General Education Requirements and admission to the School of Education.
Special Fees.
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.

ED A407 Teaching of Elementary Mathematics 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A336 and MATH A205.
Registration Restrictions: All General Education Requirements and admission to the School of Education.
Math topics and their relationship to the methods used in teaching elementary children, includes: sets; patterning; place value; operations with whole numbers and errors 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 math in the elementary classroom.

ED A410 Language and Cognition 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Acceptance into the secondary education program.
Prepares future teachers to integrate listening, speaking, reading and writing into their content classrooms. Includes discussion of current learning theory.

ED A411 Secondary Methods: Mathematics 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Acceptance into secondary education methods block. ED A487 or ED A687 must be taken concurrently and prior to student teaching.
Instructional techniques and materials appropriate to the teaching of mathematics on the secondary level, including classroom management, lesson planning, research and relevant aspects of statistical evaluation.

ED A413 Secondary Methods: English 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Acceptance into secondary education methods block. ED A487 or ED A687 must be taken concurrently and prior to student teaching.
Approaches to teaching English and language arts in the secondary level, including goals for instruction, teaching techniques, and methods of evaluation. 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.

ED 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: ART 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.

ED A421 Development of Reading in Elementary School 6 CR
Contact Hours: 6 + 0
Prerequisites: EDSE A336.
Registration Restrictions: All General Education Requirements; 12 credits of methods courses and admission to the school of education.
Special Fees.
A comprehensive study of the reading process and the development of reading proficiency in the elementary school. Includes focus on the foundations of reading and the materials and methodologies used in elementary school programs. Field work required.

ED A422 Teaching Language Arts and Literature 6 CR
Contact Hours: 6 + 0
Prerequisites: EDSE A336.
Registration Restrictions: All General Education Requirements; 12 credits of methods courses and admission to the school of education.
Special Fees.
A critical study of the theoretical and practical aspects of teaching, listening, speaking, and writing through children's literature. Emphasis is directed toward the integration of language instruction in the elementary school. Field work required.

ED A423 Philosophical Foundations of Education 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A312 or EDPE A338.
Philosophical assumptions underlying the American concept of schooling, including an overview of the historical antecedents of modern educational philosophy. How a philosophy guides choices about schooling. Development of a coherent personal educational philosophy.

ED A442 Curriculum and Instruction in Secondary Art 3 CR
Contact Hours: 3 + 0
Prerequisites: ED A321.
Registration Restrictions: The 18 credit lower division Art core is required for Art majors and recommended for others. Admission to School of Education.
Crosslisted with: ART A442.
Investigation, practice, and discussion of objectives, scope, sequence, evaluation and related readings dealing with teaching art at the secondary level.

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 A471 Elementary Music Methods 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A336.
Registration Restrictions: All General Education Requirements and admission to the School of Education.
Crosslisted with: MUS A471.
Principles, procedures, and materials for teaching music to children at the elementary level.

ED A472 Secondary Music Methods 3 CR
Contact Hours: 3 + 0
Prerequisites: ED A321 and MUS A232.
Registration Restrictions: Admission to teacher certification, 100 semester credits.
Crosslisted with: MUS A472.
Methods and problems of teaching music in junior and senior high schools with emphasis on the general music program.

ED A476 Instructional Strategies for the Language Classroom: Secondary and Adult 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Basic fluency in a second language; Type A teaching certificate, or admission to the teacher certification program.
Crosslisted with: LANG A476.
Theory and practice for the secondary and adult language classroom reflecting the current emphasis on oral language acquisition and a proficiency-based, multisensory approach to learning a second language. Students develop their own activities which are appropriate to the target language and the developmental level (secondary and adult).

ED A477 Instructional Strategies for the Language Classroom: Preschool Through Middle School 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Basic fluency in a second language; Type A teaching certificate, or admission to the teacher certification program.
Crosslisted with: LANG A477.
Instructional strategies for the language classroom which reflect the current emphasis on oral language acquisition and a proficiency-based, multisensory approach to learning a second language. Students develop their own activities which are appropriate to the target language and the developmental level (preschool, elementary, middle school).

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 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 Reading in the Elementary School 3 CR
Contact Hours: 3 + 0
Study of current developments in reading theory and instructional practices. Procedures for program analysis and implementation of change. Individual in-depth study of specific problems related to reading instruction.

ED A604 Diagnosis and Correction of Reading Deficiencies 3 CR
Contact Hours: 3 + 0
Prerequisites: ED A410.
Registration Restrictions: Experience in the teaching of reading.
Nature of the reading process; emphasis on psychology involved in discerning reading difficulties, testing programs to ascertain specific disabilities in readiness, vocabulary, word-attack skills, comprehension, speed, and accuracy; specific suggestions for their correction; and newer approaches to teaching reading.

ED A606 Reading Clinic 3 CR
Contact Hours: 2 + 3
Prerequisites: ED A604.
A practicum approach to learning the techniques for evaluation and therapy regarding multiple types of reading difficulties.

ED A609 Reading: Supervised Practicum 3 CR
Contact Hours: 0 + 9
Prerequisites: ED A410 and ED A606.
Supervised field experience with student and staff in public school. Graduate students will work with elementary and/or secondary faculty members to evaluate and implement reading programs.

ED A610 Language And Cognition 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Acceptance into M.A.T. Program and faculty permission.
Prepares future secondary and middle school teachers to use language as a pedagogical tool. Emphasizes reading and writing as key ways of knowing in all content areas. Presents a review of the literature concerning research and theory on brain, mind, and language connections.

ED A612 Human Relations in Education 3 CR
Contact Hours: 3 + 0
Development of attitudes and behaviors which will help all those involved in education to deal directly with the affective domain of learning. Effective sending and receiving in communication will be studied as well as techniques for creating a positive communication atmosphere for the profession.

ED A618 Issues in Children's Literature 3 CR
Contact Hours: 3 + 0
Develop awareness of current issues in children's literature in terms of topic, criticism, genre, authors and illustrations. Classroom applications include the development of a literature curriculum, and thus integration of literature, reading and writing.

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.
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 A635 Restructuring Education: Crisis and Opportunity 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Provides a systematic examination of the pedagogical, social and political issues surrounding the organization and operation of schooling in America. Presents a framework for the restructuring of schools which focuses on the implications of contemporary research on teaching and learning.

ED A637 Educational Leadership and Organizational Behavior 3 CR
Contact Hours: 3 + 0
Pertains to the effective and efficient operation of a school. Leadership and decision-making with collegial relations and consensus building are emphasized. Other themes cover the ability to design policies to guide school building instruction and behavior, and to fashion sit- focused management teams and activities. Presents a framework for the restructuring of schools which focuses on the implications of contemporary research on teaching and learning.

ED A638 Instructional and Curricular Leadership 3 CR
Contact Hours: 3 + 0
Emphasizes the development and implementation of activities designed to improve instruction in the school. Curricular and assessment issues evolving from an analysis of successful contemporary practices will be discussed and will structure cooperative measures among school personnel to strengthen classroom instruction.

ED A639 Social and Political Foundations of Education 3 CR
Contact Hours: 3 + 0
Historical, social, political, and economic concepts of territorial acquisition, settlement, and growth will be blended in this survey of activities that created public school districts in the United States and especially in the state of Alaska. Particular emphasis is placed on the ministerial role of school and community leaders as they faced emerging educational needs.

ED A640 Law and Ethics in Education 3 CR
Contact Hours: 3 + 0
Designed to provide a solid understanding of developing professionally sound ethics in classroom and support activities. In the survey of program development and revision based on challenged educational practices, the student will become familiar with the features that have an impact on education, e.g., professional practice commissions standards and constitutional, statutory, administrative, and case law.

ED A641 Principal Internship 3-6 CR
Contact Hours: 0 + 9-18
Prerequisites: ED A637 and ED A638 and ED A639 and ED A640.
Registration Restrictions: Approval of student's advisory committee.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for credit.
Fieldwork in an appropriate educational or agency setting. Assignment will be respective to the principalship.

ED A642 Principal Seminar I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Must have completed three courses in the non-seminar course line-up.
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 student's research and writing.

ED A643 Principal's Seminar II 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Must have completed three courses in the non-seminar course line-up.
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.

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 A653 Advanced Instructional Strategies for Secondary Education 3 CR
Contact Hours: 3 + 0
Prerequisites: ED A402.
A variety of inductive and deductive instructional strategies for secondary teachers with pertinent research on adolescent development and learning styles. Students will develop and model a variety of new strategies. Participants will experience supportive evaluation through peer coaching.

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 to bring educators up-to-date on brain research and to provide the background information necessary to evaluate educational theories developed from brain research. Curriculum models and classroom activities will be developed and evaluated.

ED A655 Implementing the Standards: Integrating Educational Technology into the Curriculum 3 CR
Contact Hours: 3 + 0
Prerequisites: ED A629 and ED A652.
Registration Restrictions: Graduate Standing.
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.
Focuses on building an Educational Technology Electronic Teaching Portfolio and assessing that portfolio against national and state standards.

ED A660E Practicum: Principal (Elementary) 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Approval of student's advisory committee.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for credit.
Fieldwork in an appropriate educational or agency setting. Assignment will be respective to the principalship.

ED A660S Practicum: Principal (Secondary) 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Approval of student's advisory committee.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for credit.
Fieldwork in an appropriate educational or agency setting. Assignment will be respective to the principalship.

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 A663 Writing and Learning: Anchorage Writing Project Summer Institute 1-5 CR
Contact Hours: 1-5 + 0
An intensive course designed to introduce students to the writing process. Focus will be on teaching techniques, including student writing response groups, writing to assist learning, personal experience writing, cognitive organization, oral language, sentence combining, and grammar. Students will be required to participate in preliminary and post institute meetings.

ED A664 Writing and Learning: Anchorage Writing Project Advanced Institute 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: 3 credits of ED A663.
Advanced study of teaching techniques introduced in summer institute. Students will be requested to participate in preliminary and post institute meetings.

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 A671 Superintendent Stewardship and Systemic Change 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Master's Degree in Education and admission into the Educational Leadership-Superintendent's Program.
Examines the role of superintendent as the steward of the entire school system, and the leader responsible for improving student learning through public accountability measures.

ED A672 Student Performance: Academic and Developmental 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Master's Degree in Education and admission into the Educational Leadership-Superintendent's Program.
Focuses on the superintendent's need to understand developmental research that explains student academic performance including the psycho-social, physiological, and cultural dimensions.

ED A673 Human Resource Management and Labor Relations 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Master's Degree in Education and admission into the Educational Leadership-Superintendent's Program.
Prepares superintendents to manage personnel and negotiation transactions within a school district.

ED A674 Public School Finance and Facilities 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Master's Degree in Education and admission into the Educational Leadership-Superintendent's Program.
Examines components of K-12 public school finance and K-12 facility design and maintenance as they relate to the preparation of superintendents.

ED A675 Internship: Superintendent 3-6 CR
Contact Hours: 0 + 9-18
Registration Restrictions: Master's Degree in Education and admission into the Educational Leadership-Superintendent's Program. Corequisite: ED A676 or ED A677 plus any two of the following courses: ED A671, ED A672, ED A673, ED A674.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for a maximum of 6 degree credits.
Fieldwork in an appropriate educational or agency setting. Assignment will be respective to the superintendency.

ED A676 Superintendent Seminar I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Master's Degree in Education and admission into the Educational Leadership-Superintendent's Program. Corequisite: ED A675 plus any two of the following courses: ED A671, ED A672, ED A673, or ED A674.
Addresses themes of policy development and implementation, school community relations, and instructional reform with a focus on state and local events and issues. Supplements ED A675 Superintendent Internship. Provides opportunity to interns for structured reflection and added input.

ED A677 Superintendent Seminar II 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Master's Degree in Education and admission into the Educational Leadership-Superintendent's Program. Corequisite: ED A675 plus any two of the following courses: ED A671, ED A672, ED A673, or ED A674.
Addresses the themes of policy development and implementation, human resource management, and district level finance and facilities management. Supplements ED A675 Superintendent Internship. Provides opportunity to interns for structured reflection and added input.

ED A681 Neurological Foundations: Development and Learning 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Corequisite: ED A682, ED A683, ED A687 and EDSE A671.
Examination of neurological research relevant to educational perspectives of emotional, physical, social development and learning. Emphasis on evaluation of educational psychology theories and application to instructional practices and curriculum development.

ED A682 Curriculum Development Processes 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the Master of Arts in Teaching Secondary Education program and graduate standing.
Corequisite: ED A681, ED A683, ED A687 and EDSE A671.
Focus on the theories, models, elements, and resources for designing secondary curriculum. Emphasis will be on each student's applying knowledge from research and examples of exemplary practice to specific content areas, instructional goals, or practical settings.

ED A683 Methods for Secondary Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the Master of Arts in Teaching Secondary Education program and graduate standing.
Corequisite: ED A681, ED A682, ED A687 and EDSE A671.
Instructional strategies appropriate to teaching on the secondary level with an emphasis on how students learn. Course topics include classroom management, lesson planning, evaluation, and classroom research.

ED A687 Advanced Practicum: Education 1-12 CR
Contact Hours: 0 + 3-36
Registration Restrictions: Faculty permission, or concurrent methods enrollment and graduate standing.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for credit.
Supervised field experience with students in educational facilities. Students will be assigned work with children in the area of specialization. Placement is arranged by the supervisor and the number of hours in assigned locations will vary according to the number of credits earned.

ED A688 Student Teaching in Secondary Education 12 CR
Contact Hours: 3 + 18
Grade Mode: Pass/No Pass.
Special Fees.
Student teaching consists of a 16 week semester of full days in the classroom of the secondary school approved by the School of Education. Experiences include: observations, 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 first-hand experience from successful, established programs. Intended for administrators; early-childhood, elementary, secondary modern language or ESL teachers; and others planning to implement a second-language education program or currently participating in an established program.

ED A698 Individual Research 1-6 CR
Contact Hours: 1-6 + 0
Prerequisites: (ED A627 or concurrent enrollment).
Registration Restrictions: Faculty permission.
Grade Mode: Pass/No Pass.
As directed by graduate committee.

ED A699 Thesis 1-6 CR
Contact Hours: 1-6 + 0
Prerequisites: (ED A627 or concurrent enrollment).
Registration Restrictions: Faculty permission.
Grade Mode: Pass/No Pass.
As directed by graduate committee.

EDUCATION-ADULT EDUCATION - EDAE

http://www.uaa.alaska.edu/ed/adult/
Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 216, 786-4401

EDAE A645 The Teaching of Adults 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Examines direct and indirect teaching methods. Activities assist learners to identify individual values and ethics. Involves critical thinking skills and ethical decision making. Explores current ethical issues applicable to adult education practices. Learners design, develop, and deliver several classes, workshops, and presentations.

EDAE A650 Principles of Human Resource Development 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Bachelor's degree from an accredited university.
Current principles and theories of human resource development. Applicable to adult educators working in a variety of human resource systems to include educational institutions, non-profits, business and industry, and voluntary organizations.

EDAE A655 The Adult Learner 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Examines major principles, problems and information about adults and adult learning. Includes psychological, physical, intellectual and other factors affecting adults and their ability to learn; motivation, participation of adult learners, principles and theories of adult learning; and traditional, non-traditional, and self-directed learning.

EDAE A657 Leadership 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Explores concepts, theories, and approaches concerning leadership, with particular emphasis on how they apply to adult and continuing education. Application of leadership ideas to improve decision making and problem solving skills, enhance effectiveness, and predict outcomes. Examines personal leadership styles and philosophies of leadership and leadership development.

EDAE A658 Organization and Administration of Adult Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Examines organizational models utilized by the diverse range of institutions and agencies involved in adult and continuing education and extension programs. Includes diversity of programs, organizational structures, goals and programs. Examines finance and facilities, personnel, program and community relations.

EDAE A665 History and Philosophy of Adult Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Examines the historical foundations of adult education and explores the various philosophical approaches to adult education currently practiced in the United States. Compares and contrasts the theoretical and practical relationships of these philosophies.

EDAE A667 Distance Learning and Adult Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Development of effective instructional methods for reaching adult learners at a distance. Provides participation in the design of instruction and use of specific delivery systems and technologies. Emphasizes design and delivery of instruction in Alaska. Students analyze and critique various modes of distance education in Alaska.

EDAE A670 Current Topics in Adult Education 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Bachelor's degree from an accredited university.
Special Note: May be repeated for credit with change of subtitle. Restricted enrollment may apply. See advisor for applicability to degree program.
Specific current issues, techniques, and trends affecting or of interest to adult educators.

EDAE A678 Curriculum and Program Planning in Adult Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Identification of fundamental principles and concepts of program planning and curriculum development. Specifically reviews education and training programs and curriculum designed for the adult learner and offers practical applications of the ideas in the course.

EDAE A679 Methods and Materials in Adult Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Exploration of methods and materials available for use in adult education, including the wide variety of methods and techniques in use today, and of both print and mediated materials. Develops skills in creating materials appropriate for adults in differing settings, and participating in delivery of instruction using various methods to create stimulating and effective learning environments.

EDAE A691 Professional Seminar 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Bachelor's degree from an accredited university.
Reviews research in adult education, current and past, with analysis of its directions, effect, methodology, quality, and prospects. Examines and compares current practices and trends in the field with core literature of adult education. Promotes examination of professional portfolios for adult educators.

EDAE A695 Advanced Practicum in Adult Education 1-6 CR
Contact Hours: 0 + 3-18
Registration Restrictions: Students must be in the final phase of their program. Faculty permission.
Grade Mode: Pass/No Pass.
Provides supervised field experience within the broad realm of adult education.

EDAE A698 Individual Research 1-3 CR
Contact Hours: 0 + 3-9
Prerequisites: (ED A627 or concurrent enrollment).
Registration Restrictions: Acceptance in adult education master's program, and adult education faculty permission.
Grade Mode: Pass/No Pass.
Completion of a master's individual research project through quality research studies.

EDAE A699 Thesis 1-3 CR
Contact Hours: 0 + 3-9
Prerequisites: (ED A627 or concurrent enrollment).
Registration Restrictions: Acceptance in adult education master's program, and adult education faculty permission.
Grade Mode: Pass/No Pass.
Completion of master's thesis through quality research studies.

ENGINEERING DESIGN AND DRAFTING - EDD

Offered through Kenai Peninsula College
34820 College Dr., Soldotna, Alaska, 99669,(907) 262-0300.

EDD A288 Computer Aided Drafting 4 CR
Contact Hours: 3 + 2
Registration Restrictions: Completion of a high school or college drafting course. Offered only at Kenai Peninsula College.
Introduction to computer aided drafting, instruction, and hands-on application using AutoCAD menu driven systems for data manipulation. Drawing production and drawing plotting.

EDD A289 Intermediate AutoCAD 3 CR
Contact Hours: 2 + 2
Prerequisites: EDD A288.
Expands on EDD A288 by introducing AutoCAD drawing system techniques which are widely used in industrial project documentation. Covers appropriate use of layers and develops the relationship between model space, paper space, and view ports. Introduces three-dimensional modeling.

EDUCATION-PHYSICAL EDUCATION - EDPE

http://www.uaa.alaska.edu/ed/hope/
The EDPE courses are part of the Health, Outdoor, and Physical Education program, 786-4066.

EDPE A101 Survey of Team Sports 1 CR
Contact Hours: 0 + 3
Special Note: May be repeated once for credit.
Survey a variety of team sports to improve athletic proficiency and cardiovascular fitness. EDPE sports may include water polo, volleyball, basketball, walleyball, broomball, badminton, pickleball, softball, and/or racquetball.

EDPE A103 Basketball 1 CR
Contact Hours: 0 + 3
Special Fees.
Special Note: May be repeated once for credit.
Covers basic rules and fundamentals including dribbling, passing, shooting, and offensive and defensive strategies by use of drills and games.

EDPE A104 Soccer 1 CR
Contact Hours: 0 + 3
Special Fees.
Special Note: May be repeated once for credit.
Introduces soccer including rules, conditioning, dribbling, basic offensive and defensive strategy, passing, heading, traps, and shooting through drills and matches.

EDPE A105 Hockey 1 CR
Contact Hours: 0 + 3
Registration Restrictions: Basic skating ability.
Special Fees.
Special Note: May be repeated once for credit.
Introduces hockey including rules, power skating techniques, puck handling, basic offensive and defensive strategy, passing, and shooting through drills and games.

EDPE A106 Beginning Volleyball 1 CR
Contact Hours: 0 + 3
Special Fees.
Special Note: May be repeated once for credit.
Fundamentals including rules, serving, passing, setting, and attacking. Covers offensive and defensive strategies of game.

EDPE A107 Introduction to In-Line Skating 1 CR
Contact Hours: 0 + 3
Registration Restrictions: Physical capabilities necessary to safely participate in physical activities.
Special Fees.
Special Note: May be repeated once for credit.
Develops basic in-line skating skills such as stroking, gliding, stopping, turning, beginning crossovers and backward skating. Covers safety and basic edging skills.

EDPE A108 Beginning Racquetball 1 CR
Contact Hours: 0 + 3
Special Fees.
Special Note: May be repeated once for credit.
Basic rules and fundamentals. Defensive and offensive strategies of game.

EDPE A109 Beginning Golf 1 CR
Contact Hours: 0 + 3
Special Note: May be repeated once for credit.
Basic rules and fundamentals including use of irons and wedges, putting, club selection, strategy, and practice rounds.

EDPE A110 Beginning Bowling 1 CR
Contact Hours: 0 + 3
Special Note: May be repeated once for credit.
Fundamentals for the beginner. Covers bowling technique, posture and position, and scoring.

EDPE A111 Beginning Ice Skating 1 CR
Contact Hours: 0 + 3
Special Fees.
Special Note: May be repeated once for credit.
Introduces warm-ups and basic techniques for skating: forward, backward, stops and turns.

EDPE A112 Beginning Swimming 1 CR
Contact Hours: 0 + 3
Special Fees.
Special Note: May be repeated once for credit.
Teaches and develops proper breathing method and basic strokes for those with little or no swimming background. Introduces crawl stroke and elementary backstroke. Emphasizes personal water safety.

EDPE A113 Springboard Diving 1 CR
Contact Hours: 0 + 3
Special Note: May be repeated once for credit.
Designed to give students basis for diving recreationally or competitively at university or masters level. Covers stretching and flexibility, psychological preparation, and basic and optional dives used in competition.

EDPE A114 Beginning Weight Training 1 CR
Contact Hours: 0 + 3
Special Fees.
Special Note: May be repeated once for credit.
Improve strength, physical conditioning, and general sports performance through correct use of Nautilus equipment, free weights and use of body weight and resistance.

EDPE A115 Shape Up with Weights 1 CR
Contact Hours: 0 + 3
Special Fees.
Special Note: May be repeated once for credit.
Warm-up with stretching and jogging. Strengthens and conditions major muscle groups using free weights and Nautilus equipment. Covers cardiovascular exercise and basic nutritional information.

EDPE A116 Soft Aerobics 1 CR
Contact Hours: .5 + 1.5
Special Fees.
Special Note: May be repeated once for credit.
Designed for individuals who are not familiar with or have not participated in regular exercise for a period of time and would like to begin a fitness program. Exercise to music for cardiovascular, flexibility and strength improvement.

EDPE A117 Stretching and Toning 1 CR
Contact Hours: 0 + 3
Special Fees.
Special Note: May be repeated once for credit.
Non-aerobic exercises to increase agility and to develop muscular tone. Exercise with music helps increase flexibility, gain a greater range of motion, reduce stress, and improve muscular strength.

EDPE A118 Aerobics 1 CR
Contact Hours: 0 + 3
Special Fees.
Special Note: May be repeated once for credit.
Exercise to music for cardiovascular, flexibility, and strength improvement.

EDPE A119 Aqua Aerobics 1 CR
Contact Hours: .5 + 1.5
Special Fees.
Special Note: May be repeated once for credit.
Aerobic exercise performed in the water and designed to help swimmers and non-swimmers slim down, tone up muscles, and gain flexibility. Designed to attain and maintain physical fitness through controlled water activities using a wide variety of muscles while submerged in the water.

EDPE A120 Country Western Workout 1 CR
Contact Hours: 0 + 3
Special Fees.
Introduces country Western and line dance as an effective and fun way to develop cardiovascular fitness. Includes exercises to improve flexibility and general body tone.

EDPE A121 Circuit Training 1 CR
Contact Hours: 0 + 3
Special Fees.
Special Note: May be repeated once for credit.
Introduces circuit training as a way to improve strength, physical conditioning, and general sports performance. Covers correct strength/endurance technique for aerobic and flexibility training.

EDPE A124 Introduction to Fitness Leadership 3 CR
Contact Hours: 3 + 0
Special Fees.
Introduces basics of cardiorespiratory, metabolic, neuromuscular, environmental exercise physiology, biomechanics and kinesiology in regard to safe exercise. Designed for individuals interested in working in the fitness industry as a fitness instructor or personal trainer.

EDPE A125 Techniques in Fitness Instruction I 2 CR
Contact Hours: 2 + .75
Prerequisites: (EDPE A124 or concurrent enrollment).
Special Fees.
Introduces basic exercise program progression, testing techniques, contraindicated exercises, music selection, choreography, and teaching exercise techniques. Designed for individuals interested in working in the fitness industry as a fitness instructor. Conducted in a classroom and lab setting for hands-on experience.

EDPE A126 Techniques in Personal Training I 2 CR
Contact Hours: 2 + .75
Prerequisites: (EDPE A124 or concurrent enrollment).
Special Fees.
Introduces techniques for client assessment, program progression, contraindicated exercise, proper use of variable resistance equipment, teaching exercise techniques, and injury prevention. Designed for individuals interested in working in the fitness industry as a personal trainer. Conduced in a classroom and lab setting for hands-on experience.

EDPE A129 Yoga for Runners and Skiers 1 CR
Contact Hours: .5 + 1.5
Special Fees.
Special Note: May be repeated once for credit.
Designed for recreational and competitive walkers, runners, and cross country skiers. Develop a personal training program to include stretching, strengthening, breath control, mental conditioning and relaxation techniques for improved performance and enjoyment.

EDPE A130 Yoga 1 CR
Contact Hours: 0 + 3
Special Fees.
Special Note: May be repeated once for credit.
Participation in Kundalina Yoga. Includes physical exercise, breathing techniques and practice in concentration and deep relaxation.

EDPE A131 Beginning Tai Chi 1 CR
Contact Hours: .5 + 1.5
Special Fees.
Special Note: May be repeated once for credit.
T'ai Chi Ch'uan is a complete exercise which helps achieve good health and tranquillity while increasing energy and balancing strength. Designed for the beginner who would like to learn how to relax and become more aware of his/her body.

EDPE A132 Beginning Karate 1-3 CR
Contact Hours: 0 + 3-9
Special Fees.
Special Note: May be repeated once for credit
Introduces main techniques of karate. Covers three main aspects: individual training, applied training with opponent, and auxiliary exercises to increase skills.

EDPE A133 Kung Fu 1 CR
Contact Hours: .5 + 1.5
Special Fees.
Special Note: May be repeated once for credit.
Kung Fu seeks to achieve harmony between oneself and the universe through training and discipline on the physical, mental and spiritual level. Northern Shaolin Kung Fu provides basic understanding of the philosophy, principles and applications.

EDPE A134 Kendo 1 CR
Contact Hours: .5 + 1.5
Special Fees.
Special Note: May be repeated once for credit.
Covers theory, techniques and methods of training. Kendo, one of the oldest martial arts, was originally the Japanese feudal art of swordsmanship. Practiced with bamboo swords and protective clothing for the purpose of training mind and body.

EDPE A135 Tae Kwon Do 1 CR
Contact Hours: .5 + 1.5
Special Fees.
Special Note: May be repeated once for credit.
Encompasses a brief history and fundamental techniques employed in the Korean Martial Art of Tae Kwon Do. Techniques include basic defensive blocks, punching, basic kicks, and open sparring. Instruction will cover both mental and physical aspects of self-defense.

EDPE A140 Wilderness Adventures 1-3 CR
Contact Hours: .5 + 1.5-4.5
Special Fees.
Special Note: One and two day weekend field trips.
Survey course providing introduction and overview of back country skills. Specific topics to be covered depend on season and may include hiking, backpacking, camping, canoeing, rock climbing, or skiing. Emphasis on safety, minimum impact skills, and group cooperation.

EDPE A145 Alaska Native Survival Techniques 3 CR
Contact Hours: 2 + 2
Northern survival from a traditional Native perspective. Covers overview of Native cultures, and hands-on practice of emergency shelter construction techniques, clothing and equipment, travel, and subsistence. Includes comparison and contrast of Western survival and Native techniques.

EDPE A150 Snowboarding 1 CR
Contact Hours: .5 + 1
Special Fees.
Basic snowboarding techniques including classroom and on-snow training. Emphasis on safety, judgment, equipment, and boarding a variety of terrain and snow conditions. Board rentals available.

EDPE A162 Wilderness First Responder/WEC 4 CR
Contact Hours: 3 + 2
Registration Restrictions: CPR certification must be obtained by week 6 of class.
Special Fees.
Special Note: Service and completion of course satisfies requirements for NSP water emergency care certificate and wilderness first responder certificate.
Provides knowledge and skills necessary to administer emergency care in non-urban environment. Covers basic anatomy and physiology, assessment of injuries and appropriate short-term care. An approved emergency care course for entry into national ski patrol, and many guiding and outdoor education programs.

EDPE A165 Alaskan Native Sport Traditions 2 CR
Contact Hours: 1 + 2
Develops understanding and introduces skills of Native sport, game and dance traditions (as practiced by world Eskimo Indian Olympics). Hands on practice of sports, games and dances.

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 A176 Standard First Aid and Adult CPR 1 CR
Contact Hours: .5 + 1.5
Grade Mode: Pass/No Pass.
Special Fees.
Designed for students needing CPR and first aid certification to meet degree or certificate program requirements as well as individuals on campus or in the community requiring such certification for employment. Completion provides students with national certification in basic first aid and adult CPR.

EDPE A190 Selected Topics in Expedition Activities 1-3 CR
Contact Hours: .5 + 1.5-4.5
Special Fees.
Special topics course covering a wide variety of adventure activities in an extended wilderness outing format. Focuses on safety, expedition planning, group dynamics, adventure techniques, navigation, minimum impact camping, and natural history. Includes expedition to wilderness area.

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 A203 Intermediate Basketball 1 CR
Contact Hours: 0 + 3
Prerequisites: EDPE A103.
Special Fees.
Emphasizes game strategy and develops intermediate/advanced skills.

EDPE A205 Intermediate Hockey 1 CR
Contact Hours: 0 + 3
Prerequisites: EDPE A105.
Special Fees.
Develop intermediate level power skating techniques, puck handling, offensive and defensive strategy, passing, and shooting through drills and games.

EDPE A206 Intermediate Volleyball 1 CR
Contact Hours: 0 + 3
Prerequisites: EDPE A106.
Special Note: May be repeated once for credit.
Improving skills and strategies of the game.

EDPE A208 Intermediate Racquetball 1 CR
Contact Hours: 0 + 3
Prerequisites: EDPE A108.
Special Fees.
Special Note: May be repeated once for credit.
Emphasizes game strategy and improving skills.

EDPE A210 Intermediate Bowling 1 CR
Contact Hours: 0 + 3
Prerequisites: EDPE A110.
Special Note: May be repeated once for credit.
Provides bowling instruction to the person who knows basic techniques and wishes to further develop skills.

EDPE A211 Intermediate Figure Skating 1 CR
Contact Hours: 0 + 3
Prerequisites: EDPE A111.
Special Fees.
Special Note: May be repeated once for credit.
Introduces jumps, spins, edges and turns.

EDPE A212 Intermediate Swimming 1 CR
Contact Hours: 0 + 3
Prerequisites: EDPE A112.
Registration Restrictions: Student should be able to swim the crawl stroke a minimum of one pool length using good breathing technique.
Special Note: May be repeated once for credit.
Develops and refines breast, side, and other advanced strokes. Covers diving and personal safety.

EDPE A213 Swimming Conditioning 1 CR
Contact Hours: 0 + 3
Prerequisites: EDPE A212.
Special Fees.
Special Note: May be repeated once for credit.
Improves skills, physical conditioning, and knowledge of training and competition. Training and conditioning on an individual basis according to abilities. Designed for adult intermediate to competitive level swimmers.

EDPE A214 Lifeguarding 2 CR
Contact Hours: 1 + 2
Registration Restrictions: Swim 20 lengths, surface dive and standing front dive.
Special Fees.
Special Note: May be repeated once for credit.
Advanced course in lifeguarding. Deals with the common hazards in aquatic facilities and lifeguarding duties in general as well as advanced techniques in lifesaving skills. Successful completion results in Red Cross certification including CPR.

EDPE A215 Water Safety Instructor Training 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Swim 20 lengths, surface dive and standing front dive.
Trains instructor candidates to teach the Infant and Preschool Aquatics Program; the seven levels of the Learn to Swim Program; the Basic Water Safety, Emergency Water Safety, and Water Safety Instructor Aide courses; and, for eligible individuals, the Safety Training for Swim Coaches course.

EDPE A216 Advanced Weight Training 1 CR
Contact Hours: 0 + 3
Prerequisites: EDPE A114.
Special Fees.
Special Note: May be repeated once for credit.
Strength development for persons already reasonably fit.

EDPE A218 Power Aerobics 1 CR
Contact Hours: .5 + 1.5
Prerequisites: EDPE A118.
Special Fees.
Special Note: May be repeated once for credit.
Advanced exercise program to music for cardiovascular, flexibility, and strength improvement with the use of exercise aids.

EDPE A224 Issues in Fitness Leadership 3 CR
Contact Hours: 3 + 0
Prerequisites: EDPE A124.
Presents concepts to personally tailor programs for exercisers with common health challenges and to create programs for specific groups of people. Provides information on prevention and treatment of injuries, basic emergency procedures, legal and professional responsibilities of fitness instructors and personal trainers.

EDPE A225 Techniques in Fitness Instruction II 2 CR
Contact Hours: 2 + .75
Prerequisites: EDPE A125 and (EDPE A224 or concurrent enrollment).
Examines a wide range of issues related to exercisers' various needs. Presents techniques for program implementation, music selection, choreography, and teaching exercise techniques for exercisers with common health challenges or special needs. Conduced in a classroom and lab setting for hands-on experience.

EDPE A226 Techniques in Personal Training II 2 CR
Contact Hours: 2 + .75
Prerequisites: EDPE A126 and (EDPE A224 or concurrent enrollment).
Examines a wide range of issues related to exercisers' varied needs. Presents techniques for assessment, program implementation, progression, and exercise prescription for general public and special populations. Conducted in a classroom and lab setting for hands-on experience.

EDPE A227 Techniques in Aquatics Fitness Instruction I 2 CR
Contact Hours: 2 + .75
Prerequisites: (EDPE A224 or concurrent enrollment).
Special Fees.
Examines special considerations and information necessary for an aquatics fitness instructor. Instruction in the 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.

EDPE A228 Advanced Racquetball 1 CR
Contact Hours: 0 + 3
Prerequisites: EDPE A208.
Special Fees.
Special Note: May be repeated once for credit.
Emphasizes advanced game strategy and develops advanced skills.

EDPE A229 Advanced Figure Skating 1 CR
Contact Hours: 0 + 3
Prerequisites: EDPE A211.
Special Note: May be repeated once for credit.
Develops advanced skills in jumps, turns, and spins.

EDPE A230 Intermediate Yoga 1 CR
Contact Hours: .5 + 1.5
Prerequisites: EDPE A130.
Special Fees.
Participation in Kundalina Yoga. Includes intermediate level physical exercise, breathing techniques and practice in concentration and deep relaxation.

EDPE A231 Intermediate Tai Chi 1 CR
Contact Hours: .5 + 1.5
Prerequisites: EDPE A131.
T'ai Chi Ch'uan is a complete exercise which helps achieve good health and tranquillity while increasing energy and balancing strength. Designed for students interested in expanding prior knowledge and participating in the 36 movements of Chen style T'ai Chi Ch'uan.

EDPE A232 Intermediate Karate 1 CR
Contact Hours: 0 + 3
Prerequisites: EDPE A132.
Special Note: May be repeated once for credit.
Continuation of EDPE A132. Basics review, injury prevention, philosophy, introduction to various schools and styles, and conditioning. Emphasis on refinement of basic moves, offensive and defensive strategy, and acquisition of intermediate moves and techniques.

EDPE A233 Intermediate Kung Fu 1 CR
Contact Hours: .5 + 1.5
Prerequisites: EDPE A133.
Special Fees.
Develop an in-depth understanding of the philosophy, basic principles and applications of Kung Fu.

EDPE A234 Intermediate Kendo 1 CR
Contact Hours: .5 + 1.5
Prerequisites: EDPE A134.
Emphasizes integration of theory and methods of training at an intermediate/advanced level.

EDPE A235 Intermediate Tae Kwon Do 1 CR
Contact Hours: .5 + 1.5
Prerequisites: EDPE A135.
Special Fees.
Emphasizes integration of theory and methods of training at an intermediate/advanced level.

EDPE A240 Wilderness Leadership Expedition 4 CR
Contact Hours: 1 + 6
Special Fees.
Special Note: Prior training in wilderness adventures, camping, backpacking, and mountaineering is recommended.
Expedition format course designed to develop experienced wilderness leaders. Uses leader of the day, debriefing, and on-going evaluation to enhance judgement, risk management, small group facilitation, low impact use, philosophical/theoretical knowledge of leadership, and natural history interpretation. Successful completion of course satisfies wilderness education association national standard program for wilderness leadership certification.

EDPE A262 Wilderness Emergency Medical Technician 4 CR
Contact Hours: 2 + 4
Prerequisites: EDPE A162 and EMT A130.
Special Fees.
Emergency medical care in remote areas. Covers general medicine, trauma, environment medicine, and wilderness rescue. Designed for outdoor professionals, wilderness guides, EMT's or paramedics involved in rescue, the backcountry, or the bush. W-EMT certificate awarded upon successful completion of course.

EDPE A320 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 A325 Wilderness Leadership 3 CR
Contact Hours: 2 + 2
Prerequisites: EDPE A140 and [AWS A105 and AWS A205 or AWS A103 and AWS A203 or AWS A111 and EDPE A162 or EDPE A262].
Special Fees.
To teach experienced outdoor enthusiasts the skills, philosophy, and theories of wilderness leadership. Emphasis on the study and application of leadership theory, safety, judgement, group dynamics, processing, teaching, minimum impact skills, and planning. Includes classroom sessions, practicum placement, and two expeditions. Successful completion of the course satisfies wilderness education association national standard program for wilderness leadership certification.

EDPE A330 Sports Theory and Coaching 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Admittance into the health, outdoor, and physical education program.
Methods of coaching, playing and training in a variety of team sports played primarily at the junior and senior high school levels. Emphasizes both individual and team skills. Includes a basic understanding of all rules, organization, administration, theories and strategies for these games.

EDPE A332 Practicum in Physical Education 1 CR
Contact Hours: 0 + 3
Registration Restrictions: Admittance 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: Admittance 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.
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 athletic-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 A340 Sport and Recreation Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Knowledge and skills of required 100- and 200-level EDPE course work.
Issues around the initiation, development, implementation and evaluation of programs in sport and recreation management. Specific topics include developing program paradigms, the use of computer software, program evaluation and public relations strategies.

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 A417 Leadership in Comprehensive Community Health Enhancement 3 CR
Contact Hours: 3 + 0
Special Note: Primarily for EDPE majors.
Provides knowledge base regarding development and implementation of community health enhancement models. Explores knowledge, values, and skills needed to initiate, develop, and implement culturally appropriate and comprehensive community health enhancement systems or programs.

EDPE A418 Health Enhancement: People with Disabilities 3 CR
Contact Hours: 2 + 1
Special Note: Primarily for EDPE majors.
Introduction to advocacy, teaching health and physical education/activity, and lifelong leisure activities to people who experience disability. Covers health, developmental, legal, and pedagogical topics.

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: Acceptance into elementary education major; completion of Praxis and all elementary education requirements for study in the methods block.
Philosophy, source materials, group activities and program planning; participation required to gain skills and techniques of teaching health education and physical activities for elementary grade children.

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 efficiently and safely teach outdoor adventure activities. Applications including initiatives, challenge courses, service projects, and high adventure activities will be examined. Covers design, implementation, and evaluation on safety and processing.

EDPE A437 Methods of Teaching School Health Education 3 CR
Contact Hours: 3 + 0
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 in Health, Outdoor, and Physical Education 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.
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.
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.
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.
Special Fees.
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.
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.

EDPE A492 Seminar in Health, Outdoor, and Physical Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Senior standing or consent of professor.
The purpose of this class is to provide a forum for the discussion and understanding of critical issues which are of concern to physical, outdoor, and health education professionals. The seminar format of this course allows and fosters critical thinking and philosophy development through the use of interactive discussions of assigned reading and current events. Students will review, critically examine, and synthesize information related to selected timely issues in physical, outdoor, and health education.

EDPE A495 Outdoor Education Leadership Practicum 3-6 CR
Contact Hours: 0 + 9-18
Prerequisites: EDPE A170 and EDPE A240 or [EDPE A325 and EDPE A162] or EDPE A262.
Special Fees.
Special Note: Repeatable to a maximum of 6 credits.
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.

EDPE A498 Health, Outdoor, and Physical Education: Individual Research 1-3 CR
Contact Hours: .5 + 1.5-4.5
Prerequisites: ENGL A211 and EDPE A150.
Registration Restrictions: Senior status.
Special Fees.
In-depth research into particular aspects of health, outdoor, or physical education. Major paper, original research, or project required.

EDUCATION-SPECIAL EDUCATION - EDSE

Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 216, 786-4401

EDSE A312 Human Development and Learning 3 CR
Contact Hours: 3 + 0
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.

EDSE A336 Classroom Management and Collaboration 3 CR
Contact Hours: 3 + 0
Prerequisites: ED A201 and (ED A321 or concurrent enrollment) and (ED A320 or concurrent enrollment).
Registration Restrictions: Admission to Teacher Education.
Theories of classroom management as they pertain to early childhood, elementary, middle school/transescent, and high school age groupings will be discussed, with special emphasis on strategies appropriate for a diverse classroom population. Techniques for creating a positive and preventive learning environment will be stressed. Students will learn how to be successfully involved in professional collaboration with school staff, support staff and outside agencies.

EDSE A419 Diversity in the Classroom 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to School of Education.
Examination of diversity issues that impact education including linguistic and cultural considerations as well as disabilities. Course includes instructional methods and practices that enhance learning.

EDSE A460 Exceptional Learner 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A312.
Registration Restrictions: Admission to School of Education.
Introduction to the field of special education. Covers the nature and characteristics of various physical and mental exceptionalities included in the special education population.

EDSE A474 Special Children from Birth through Five 3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: Students are expected to participate in experiences outside regular class periods (15 hours).
Legislative, historical, and philosophical perspectives of early childhood special education. Includes principles and procedures for developing infant learning and preschool programs for children with special needs.

EDSE A480 Education of Culturally Different Youth 3 CR
Contact Hours: 3 + 0
Prerequisites: ED A321.
Interdisciplinary study of problems encountered by teachers in educating culturally different pupils. Considers the psychological and social factors inherent in the educational process. Specific attention given to curricular improvement and teaching strategies appropriate for culturally different students.

EDSE A482 Building Inclusive Classrooms and Schools 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A460.
Content, strategies and issues related to building inclusive classrooms and schools that support students who experience disabilities will be dealt with. Professionals will be provided with an in-depth understanding of concepts and approaches required to facilitate inclusive environments.

EDSE A610 Assessment: Behavior and Learning 3 CR
Contact Hours: 3 + 0
Prerequisites: (EDSE A460 or concurrent enrollment) and (EDSE A614 or concurrent enrollment).
Registration Restrictions: Graduate Standing.
Techniques and methods for assessing students who have disabilities. Focuses on the purposes and assumptions of assessment, testing terminology and statistics, and the administration of formal and informal assessment procedures.

EDSE A610Y Assessment: Early Childhood Special Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Techniques for assessing young children with special needs and their families. Historical development, basic purposes and assumptions of assessment, testing terminology and statistics, and the administration and interpretation of formal and informal procedures.

EDSE A612 Curriculum & Instruction in Special Education 3 CR
Contact Hours: 3 + 0
Prerequisites: (EDSE A460 or concurrent enrollment).
Registration Restrictions: Graduate Standing.
Addresses curriculum development and implementation for students with disabilities. Includes writing Individual Education Programs and using effective classroom management practices.

EDSE A614 Beginning Internship in Special Education 3 CR
Contact Hours: 1 + 6
Prerequisites: (EDSE A460 or concurrent enrollment) and (EDSE A610 or concurrent enrollment) and (EDSE A612 or concurrent enrollment).
Registration Restrictions: Admission to Endorsement Program in Special Education.
Grade Mode: Pass/No Pass.
Field experience with children or adolescents who have disabilities in public schools and other school programs. Assignments vary across areas of teaching specialization. Includes weekly seminar.

EDSE A620 Advanced Internship in Special Education 3-6 CR
Contact Hours: 1 + 6-15
Prerequisites: EDSE A460 and EDSE A610 and EDSE A612 and EDSE A614.
Registration Restrictions: Admission to the Endorsement Program in Special Education and graduate standing. Other requirements as specified on Special Education Internship Application.
Grade Mode: Pass/No Pass.
Special Note: Students must be admitted to the Endorsement Program in Special Education and complete an application for EDSE A620 by a specified deadline each semester. See advisor for specific information.
Supervised field experience with children and/or adolescents who have disabilities in public schools and other school programs. Assignments vary across areas of teaching specialization. Number of hours and weeks vary with credits.

EDSE A620Y Advanced Internship: Early Childhood 3-6 CR
Contact Hours: 1 + 6-15
Registration Restrictions: Admission to MEd option in Early Childhood Special Education, instructor approval, and graduate standing.
Grade Mode: Pass/No Pass.
Supervised field experience with exceptional children in Anchorage area facilities. Assignments vary across areas of specialization.

EDSE A622 Educational Strategies in Special Education 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A460 and EDSE A610 and EDSE A612.
Registration Restrictions: Admission to Endorsement Program is Special Education and graduate standing.

Presents advance material regarding instruction of children and adolescents with special needs. Reviews theoretical basis for selection of instructional strategies and includes specific methods for teaching individuals and groups in inclusive educational settings.

EDSE A622Y Strategies: Early Childhood Special Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

Provides in-depth understanding of best-practice strategies in the field of early intervention. Presents concepts necessary to prepare students to work with infants, toddlers, and preschoolers with disabilities and their families.

EDSE A640 Advanced Theories of Disabilities 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

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.

Examines current trends and issues in Special Education an 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.

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.

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
Corequisite: MATH A200.

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.
Corequisite: MATH A201.

Introduces components, circuits, and methods of analysis of DC and AC electrical systems and devices using impedance and complex notation, frequency response, and Laplace analysis. Covers resonance, filters, power, transformers, and three phase circuits.

EE A204 Fundamentals of Electrical Engineering II 4 CR
Contact Hours: 3 + 3
Prerequisites: MATH A201 and EE A203.

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: Corequisite: 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 & Technical College
Allied Health Science Building (AHS), Room 158, 786-6476

EMT A110 Emergency Trauma Technician 3 CR
Contact Hours: 2 + 2
Alaska State certified basic emergency medical course beyond advanced first aid. Emphasizes prevention, assessment, and care of injury and illness commonly encountered in both urban and rural settings.

EMT A130 Emergency Medical Technician I 6 CR
Contact Hours: 4 + 4
Registration Restrictions: Provide evidence of CPR training and certification that includes adult, child, and infant CPR and airway obstruction relief maneuvers, including two rescuer CPR and barrier devices. Training and certification as approved by State of Alaska Department of Health and Social Services, Division of Public Health, Section of Community Health, and Emergency Medical Services.
Special Fees.
Special Note: Students must have the strength to be able to move victims, sufficient vision to assess condition of victims, and dexterity to perform the skills application procedures.
Provides the necessary training to become state or nationally registered as an EMT I, which is optional. Proficiency in victim assessment, recognition and treatment of medical emergencies and other basic life support procedures. Includes practicum experience in hospitals, emergency rooms, or other sites.

EMT A230 Emergency Medical Technician II 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Must meet all qualifications for EMT I and have 6 months experience. Must have approval of DHSS approved physician.
Special Note: Students desiring Alaska certification must pass, within six months after completing the education program, the written and practical examination for Emergency Medical Technician II administered by the Department of Health and Social Services (DHSS).
Intermediate EMT course providing EMT I's with added skills of esophageal intubation, specialized tourniquets, and intravenous treatment.

EMT A231 Emergency Medical Technician III 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Certified in Alaska as EMT II, have 6 months experience as an EMT II, and sponsored by a DHSS approved physician.
Special Note: Students desiring Alaska certification must pass, within six months after completing the education program, the written and practical examination for Emergency Medical Technician III administered by the Department of Health and Social Services (DHSS).
Emphasizes knowledge and skills necessary for a state certified EMT III to apply electrodes and monitor cardiac activity, counter-shock life-threatening arrhythmias, and administer specific pharmacological agents.

ENGLISH - ENGL

Offered through the College of Arts and Sciences
Classroom Building K (K), Room 212, 786-4355

ENGL A109 Practical Writing 3 CR
Contact Hours: 3 + 0
Registration Restrictions: C or better in PRPE A086 or appropriate score on English Placement Test.
Alternative to PRPE A108. Instruction in skills necessary to meet day-to-day demands in composition. Emphasis on paragraph development in business letters and memos, short essays, essay exams, and short research papers. Includes intensive practice in formal punctuation.

ENGL A110 Approaches to Academic Study 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Score on Reading Asset Test of 43 or above.
Instruction in academic skills and critical thinking demanded in college work. Includes library and on-line research, time management, academic vocabulary development, note taking, text comprehension, and test taking.

ENGL A111 Methods of Written Communication 3 CR
Contact Hours: 3 + 0
Registration Restrictions: C or better in PRPE A108 or ENGL A109 or appropriate score on English Placement Test, SAT Verbal Section, or ACT English Test.
Course Attributes: GER Written Communications
Instruction in composition of expository essays with emphasis on different techniques for organization and development. Documented paper required.

ENGL A116 Writing Life Stories 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Students will learn to write and record family history from a personal perspective, to preserve newspaper clippings and photos, and create a genealogical chart for their family.

ENGL A120 Critical/Creative Thinking 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Average reading skills recommended.
Introductory course emphasizing principles and techniques of thinking better. Focuses on critical and creative thinking and problem solving strategies.

ENGL A121 Introduction to Literature 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities
Course for non-majors. Introduction to analysis and appreciation of fiction, drama, and poetry. Emphasis on reading and discussion.

ENGL A150 Women Writers 3 CR
Contact Hours: 3 + 0
A survey of women authors, with examination of how they portray both women and men in their writings.

ENGL A175 Vocabulary Development 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Fluency in speaking and reading English.
Studies to increase awareness and control of words in English. Emphasis on vocabulary building through familiarity with Greek word roots.

ENGL A201 Masterpieces of World Literature I 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Humanities
Introductory course for majors and non-majors. Emphasizes understanding literature, forming critical vocabulary, and developing literary judgment. Selected masterpieces from ancient times through the Renaissance.

ENGL A202 Masterpieces of World Literature II 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Humanities
Introductory course for majors and non-majors. Emphasizes understanding literature, forming critical vocabulary, and developing literary judgment. Selected masterpieces from the Renaissance to the present.

ENGL A203 Survey of British Literature I 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Humanities
Analysis and interpretation of selected English writings from the Anglo-Saxons to the romantics.

ENGL A204 Survey of British Literature II 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Humanities
Analysis and interpretation of selected English writings from the romantics to the present.

ENGL A207 American Prizewinners 3 CR
Contact Hours: 3 + 0
Interpretation and discussion of selections by American writers who have been honored nationally or internationally.

ENGL A208 Accelerated Reading and Comprehension 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Deals with advanced reading rate and comprehension based on a broad range of reading tasks. Develops the ability to read at accelerated rates using speed reading, comprehension, and vocabulary skills. Critical book reviews required.

ENGL A210 Academic Reading 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Instruction in advanced reading and critical thinking strategies for academic texts, lab manuals, and journal articles. Use of library resources included.

ENGL A211 Academic Writing About Literature 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 with minimum grade of C.
Course Attributes: GER Written Communications
Instruction in writing based on close analysis of literature. Develops a broad range of expository writing skills. Research paper required.

ENGL A212 Technical Writing 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 with minimum grade of C.
Course Attributes: GER Written Communications
Instruction in composition of technical correspondence, informal, and formal reports. Develops a broad range of college and career writing skills. Investigative report required.

ENGL A213 Writing in the Academic Disciplines 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 with minimum grade of C.
Registration Restrictions: ENGL A111.
Course Attributes: GER Written Communications
Instruction in writing based on close analysis of readings in various disciplines, primarily the natural or social sciences. Develops a broad range of expository writing skills, including composition of the empirical report. Research paper required.

ENGL A240 Literature of the South 3 CR
Contact Hours: 3 + 0
Explores the essence and the diversity of the South, through literary works by authors including Faulkner, Welty, Wright, and Wolfe.

ENGL A265 Literature of the North 3 CR
Contact Hours: 3 + 0
Regional approach to writers of Alaska, Canada, Scandinavia, and Soviet Union.

ENGL A275 Vocabulary Enrichment 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Well developed speaking, reading, and study skills.
Studies to increase command of Latin-based English words. Emphasizes awareness of shades of meaning and rapid acquisition of new words. Individual projects encouraged.

ENGL A303 Women's Autobiography 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Reading and analysis of contemporary women's autobiographies. Practice in writing autobiography.

ENGL A304 Topics in Women's Literature 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: May be repeated once for degree credit with a change of subtitle.
Study of particular topics in literature by women writers.

ENGL A306 Literature of the United States I 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Course Attributes: GER Humanities
Study of significant writers of the United States, focusing primarily on the 19th century and including literature that reflects important cultural, historical, political, and aesthetic forces.

ENGL A307 Literature of the United States II 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Course Attributes: GER Humanities
Study of significant writers of the United States, focusing primarily on the 20th century and including literature that reflects important cultural, historical, political, and aesthetic forces.

ENGL A310 Ancient Literature 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Classical, Biblical, and Oriental literature in English translations.

ENGL A311 Advanced Exposition 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 with minimum grade of C and [ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C].
Registration Restrictions: Junior Standing.
Instruction in writing for students who wish to develop proficiency in organizing and composing essays of factual material in which they have a genuine interest. Research paper required.

ENGL A312 Advanced Technical Writing 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A212 with minimum grade of C.
Instruction in writing situations, tasks, and modes; the rhetorical and stylistic techniques; and the methods of gathering and documenting print resources likely to be used by professionals in the technologies and sciences.

ENGL A315 Medieval Literature 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
A selective survey of primarily Western literature from the fifth century through the fifteenth. Representative authors and genres.

ENGL A320 Renaissance Literature 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
A selective survey of primarily Western literature from the fifteenth century through about the middle of the seventeenth. Representative authors and genres.

ENGL A325 Neoclassical Literature 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
A selective survey of primarily British literature of the period 1660-1798.

ENGL A330 Literature of Romanticism 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
A study of the Romantic movements from late eighteenth to mid-19th century.

ENGL A340 The Victorian Period 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Studies in poetry and prose written by various English authors between 1830 and 1900, including such writers as Tennyson, Carlyle, Dickens, Browning, and Arnold.

ENGL A342 The Modernist Period 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
A study of significant works from the early to mid twentieth century, including selections from U.S. and international literature.

ENGL A343 Contemporary Literature 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
A study of significant works from the latter third of the twentieth century to the present, including selections from U.S. and international literatures.

ENGL A344 Contemporary Native American Literature 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Survey of contemporary works by Native American writers such as Louise Erdrich, Joy Harjo, N. Scott Momaday, Leslie Marmon Silko, James Welch, and others.

ENGL A345 Alaska Native Literatures 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Survey of traditional, historical stories and contemporary texts written by Alaska Natives.

ENGL A351 Poetry 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
An intensive study of the forms and techniques used by poets.

ENGL A361 The Novel 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
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.
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.
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.
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).
Special Fees.
An intensive study of the forms and techniques used in film. Includes an introduction to film theory and criticism.

ENGL A391 Genres of Subject and Theme 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: Applies once toward genre requirement for English majors; can be repeated with a change of subtitle for elective credit.
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 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.
Technical, specialized exposition, documentation, and research. Concentration on language, style and audience in scholarly articles. Papers in students' fields prepared for conference. Students should have a definite project in mind before enrolling.

ENGL A421 Chaucer 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Major poetry, with emphasis on the Canterbury Tales; a survey of Chaucerian criticism.

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.
Major works and a survey of Shakespearean criticism. Plays covered vary from semester to semester.

ENGL A426 Milton 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Major poetry and prose, and a survey of Miltonian criticism.

ENGL A429 Major Authors 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: May be repeated once for credit with a change of subtitle.
Intensive study of a single author or relationship between authors.

ENGL A434 History of Rhetoric 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 and [ENGL A211 or ENGL A212 or ENGL A213].
Registration Restrictions: Completion of composition requirements (ENGL A111 + ENGL A211 or ENGL A212 or ENGL A213)
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.
Critical theory from its classical origins to the present.

ENGL A437 Style and Stylistics 3 CR
Contact Hours: 3 + 0
A systematic study of the techniques which characterize good prose and poetry and of the theoretical principles underlying the techniques.

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.
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 A450 Linguistics and Language Teaching 4 CR
Contact Hours: 3 + 2
Prerequisites: LING A101.
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.
An exploration of major features of American English grammar for teachers of English, ESL, and other languages. Includes topics such as theories about the development of grammar competence, the tense-aspect system, the article system, types of modification, and structures that show relationships between ideas. Emphasis on developing practical teaching techniques. In addition to class time, requires weekly two hour practicum.

ENGL A475 Modern Grammar 3 CR
Contact Hours: 3 + 0
Prerequisites: LING A101.
Special Note: Recommended for students in education with a teaching major or minor in English.
An inductive modern linguistic analysis of English emphasizing transformational grammar.

ENGL A476 History of English Language 3 CR
Contact Hours: 3 + 0
Registration Restrictions: LING A101 is recommended but not required.
Origins and development of the English language from prehistoric times to the present.

ENGL A477 Linguistics and Literature 3 CR
Contact Hours: 3 + 0
Prerequisites: LING A101 and ENGL A201 and ENGL A202.
An analysis of various forms of literature, using the techniques of modern linguistics.

ENGL A487 Standard Written English 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A211 or ENGL A212 or ENGL A213.
Subjects to be covered include the principles of 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 A499 Thesis Project 3 CR
Contact Hours: 0 + 9
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 Note: Must be completed before the student advances to candidacy for the MA.
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.
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.
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.
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.
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.
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.
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.
Advanced study of particular topics in the literature of the late seventeenth and eighteenth centuries.

ENGL A630 Studies in Literature of Romanticism 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle.
Advanced study of particular topics in the literature of the Romantic period.

ENGL A636 Studies in Modern Criticism 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle.
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.
Critical analysis and practical implementation of various styles and stylistic techniques for manipulating elements of sound, diction, and syntax.

ENGL A640 Studies in 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.
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.
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.
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.
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.
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.
Advanced study of particular forms, techniques, schools, or traditions of nonfiction prose.

ENGL A676 Studies in Texts and Cultures 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle.
Advanced study of relationships between cultural forces and the production, reception, and interpretation of texts. Focuses on both theory and analysis of selected texts.

ENGL A680 Studies in the History of Rhetoric 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Topics dealing with the historical development of rhetoric. Emphasizes readings of primary texts, understanding the conception of rhetoric particular to the time, and examining how that conception arose.

ENGL A681 Studies in Drama 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle.
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.
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.
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.

ENGL A699 Thesis 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Faculty Permission.

ENVIRONMENTAL STUDIES - ENVI

Offered through the College of Arts and Sciences
Engineering Building (ENGR), Room 340, 786-4770

ENVI A201 Living on Earth: Introduction to Environmental Studies 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 and MATH A105.
Registration Restrictions: High-school biology or equivalent required.
Course Attributes: GER Social Sciences
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
Special Note: Completion of GER Natural Sciences Lab requirement highly recommended.

Introduces science as a powerful but limited tool for understanding and solving environmental problems. The Earth as a system of systems. Weather and climate, natural cycles, energy flows, basic ecology, food, wildlife and biodiversity, chemicals, air and water quality, oceans, solid waste, cities, and land use. Uses Alaskan examples.

ENVI A492 Proseminar in Environmental Studies 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Open to students pursuing the Minor in Environmental Studies who have completed ENVI A201-A202 and will have completed all other requirements for the Minor by the end of the current semester.

Environmental problem-solving as a professional endeavor. Seminars with UAA researchers, business specialists, engineers, lawyers, regulators, consultants, and non-governmental organizations. Group and individual projects require the constructive application of knowledge and values to problems and effective communication to intended audiences. Capstone course for students pursuing the ENVI minor.

ENVIRONMENTAL QUALITY ENGINEERING - EQE

http://www.engr.uaa.alaska.edu
Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900

EQE A601 Aquatic Process Chemistry 3 CR
Contact Hours: 3 + 0
Registration Restrictions: EQE/EQS student status.
Special Fees.

An introduction to fundamental aquatic chemistry concepts frequently encountered in environmental science and engineering. An equilibrium approach with an emphasis on treatment process and natural water chemistry is employed. Both a qualitative and quantitative understanding of equilibrium calculations and the ability to apply both graphical and algebraic/numerical solution techniques to chemistry problems.

EQE A602 Water Quality Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Special Fees.

Concepts, rationale, theory, institutions and engineering aspects of water quality management. Methods of water quality management; low flow augmentation; in-stream aeration; stream and estuarine analysis; ocean disposal systems; diffuser analysis and design; control of thermal effluents, industrial discharges and Arctic applications.

EQE A603 Solid Waste Management 3 CR
Contact Hours: 3 + 0

Planning, collecting and disposing of solid waste; techniques of collection, transportation, disposal and resource recovery; solid waste environmental regulations and relationships to water, air, and land pollution; hazardous waste management.

EQE A604 Environmental Quality Evaluation 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission and graduate standing.

Topics of environmental impact statements, environmental law (local, state, and federal), and environmental quality. Impact from projects of mining, highways, airports, pipelines, industrial development, water, wastewater and solid waste, and other theoretical considerations and case studies.

EQE A605 Chemical and Physical Water and Wastewater Treatment Processes 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission and graduate standing.

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.

Study of the theoretical and biological processes including activated sludge, trickling filters, lagoons, sludge digestion and processing, septic tanks, analysis and design, nutrient removal processes, biology of polluted waters, economics, state and federal regulations.

EQE A608 Fundamentals of Air Pollution 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission and graduate standing.
Special Fees.

Basic air pollution terms and their definitions. Sources and effects of air pollution. Meteorology and its relationship to air pollution. Pollution modeling and prediction. Combustion generated air pollution. Energy and air pollution. Regulations at the federal, state, and local levels. Indoor air quality.

EQE A609 Measurement and Control of Air Pollution 3 CR
Contact Hours: 3 + 0
Prerequisites: EQE A608.

Review of fundamental concepts of air pollution. Ambient air sampling methodology. Stationary source sampling for particulate pollutants. Summary of federal source sampling protocols. Particulate emission control technology. Gaseous emission control technology. Control of combustion processes. Toxic and hazardous air pollutants. Incineration of toxic and hazardous wastes. Risk assessments. Air pollution in Alaska.

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.

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.
Special Note: Offered fall and spring semesters.
Introduction to use of AutoCAD as a tool for engineering graphics. Orthographic projections, auxiliary views, sectional views, dimensioning. Development of detail and working drawings. Three-dimensional modeling. One moderate scale design project required.

ES A111 Engineering Science 3 CR
Contact Hours: 3 + 0
Registration Restrictions: High school algebra and trigonometry or concurrent enrollment in MATH A200 required.
Special Fees.
A survey of engineering science and problem solving techniques, including static and dynamic equilibria, presentation of results, and engineering ethics. Students will be introduced to the use of computers and will participate in a design project.

ES A201 Computer Techniques 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A107 and MATH A108 or [(MATH A200 or concurrent enrollment)].
Special Fees.
An introduction to programming and analysis using FORTRAN. Computer solution of problems in engineering and physics. Micro-computer and programmable calculator applications.

ES A209 Engineering Statics 3 CR
Contact Hours: 3 + 0
Prerequisites: ES A111 or [PHYS A211 and MATH A201].
Vector quantities, equilibrium including friction forces, structural mechanics, center of gravity, and moments of inertia are considered.

ES A210 Engineering Dynamics 3 CR
Contact Hours: 3 + 0
Prerequisites: ES A209.
Kinematics and kinetics of particles and rigid bodies are studied. Newton's law of motion, momentum and work and energy concepts are studied.

ES A301 Engineering Analysis 3 CR
Contact Hours: 3 + 0
Prerequisites: ES A201 and MATH A302.
Special Fees.
Application of mathematical tools to engineering with emphasis on mathematical formulation of typical engineering problems. Selected topics from all fields of engineering.

ES A309 Elements of Electrical Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: PHYS A212.
Electrical fundamentals: elementary circuits and theorems, transformers, motors (AC and DC). Elements of power systems: generation, transmission, distribution, load centers, overload protection, power factor; amplifiers, instrumentation components and systems.

ES A331 Mechanics of Materials 4 CR
Contact Hours: 4 + 0
Prerequisites: ES A209.
Stress-strain relations, torsion, review of shear and bending moments diagrams for beams, flexural and shearing stresses, buckling of columns, elementary design of beams and columns, combined stresses, riveted and bolted connections.

ES A341 Fluid Mechanics 4 CR
Contact Hours: 3 + 3
Prerequisites: ES A210 and MATH A201.
Corequisite: ES A341L.
Statics and dynamics of fluids. Basic equations of hydrodynamics, dimensional analysis, and simple hydraulic machinery.

ES A346 Basic Thermodynamics 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A201 and PHYS A211.
Systems, properties, processes, and cycles. Fundamental principles of thermodynamics (first and second laws), and elementary applications.

ENGLISH-AS-A-SECOND LANGUAGE - ESL

Offered through the College of Arts and Sciences
Classroom Building K (K), Room 212, 786-4355

ESL A061 Intermediate ESL 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Satisfactory score on ESL Placement test and interview. Offered only at Kenai Peninsula College.
For students at the intermediate level of English knowledge. Review the basic grammatical components of English, learn and practice listening skills, add words and idiomatic expressions to their vocabularies, learn and practice spelling rules. Covers writing as a process, gain phone skills and receive practice in using the library.

ESL A066 ESL Through Newspapers 1-4 CR
Contact Hours: 1-4 + 0
Special Note: May be taken for up to 4 credits in one semester and for up to 12 credits altogether.
For ESL students of varied skill levels. Using, newspapers to practice listening, speaking, reading, writing, and other skills. Some individual instruction.

ESL A103 Oral Fluency I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Appropriate score on TOEFL/TSE or interview with ESL director.
Special Fees.
Special Note: Required language lab work.
For intermediate to advanced students. Instruction in pronunciation, listening comprehension, and speaking strategies for academic and career settings. Emphasis on self-monitoring. Includes special practice in group discussion techniques.

ESL A104 College Reading and Writing I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Appropriate score on English Placement Test or TOEFL.
Special Fees.
Special Note: Required language lab work.
For intermediate to advanced students. Extensive practice in reading and composition strategies for academic and career settings. Emphasis on alternatives to translation. Includes special practice in grammar.

ESL A105 Vocabulary Enhancement I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Appropriate score on English Placement Test or TOEFL.
Special Fees.
Special Note: Required language lab work.
For intermediate to advanced students. Extensive practice in different methods of acquiring a larger, more precise vocabulary. Emphasis on using context clues and choosing words to match the occasion/audience. Includes special instruction in idioms used by adults.

ESL A107 Oral Fluency II 3 CR
Contact Hours: 3 + 0
Prerequisites: ESL A103.
Registration Restrictions: Appropriate score on TOEFL/TSE, or interview with ESL director.
Special Fees.
Special Note: Required language lab work.
For advanced students. Further instruction in pronunciation, listening comprehension, and speaking strategies for academic and career settings. Emphasis on self-correction. Includes special practice in formal presentation techniques.

ESL A108 College Reading and Writing II 3 CR
Contact Hours: 3 + 0
Prerequisites: ESL A104.
Registration Restrictions: Appropriate score on English placement test or TOEFL.
Special Fees.
Special Note: Required language lab work.
For advanced students. Further practice in reading and composition strategies for academic and career settings. Emphasis on the use of on-campus resources for self-improvement. Includes additional practice in grammar.

ESL A109 Vocabulary Enhancement II 3 CR
Contact Hours: 3 + 0
Prerequisites: ESL A105.
Registration Restrictions: Appropriate score on English placement test or TOEFL.
Special Fees.
Special Note: Requires language lab work.
For advanced students. Further practice in different methods of acquiring a larger, more precise vocabulary. Emphasis on applying knowledge of word parts from Latin and Greek. Includes special instruction in academic vocabulary.

ENGINEERING AND SCIENCE MANAGEMENT-ESM

http://www.engr.uaa.alaska.edu
Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900

ESM A401 Cost Estimating 3 CR
Contact Hours: 3 + 0
Prerequisites: ESM A450.
Stacked with: ESM A610.
Principles, practices and procedures used in the preparation of engineering cost estimates. Exposition of the basic concepts and steps required to develop engineering type, labor and material based, and parametric cost estimates. Preparation of cost proposals and study of bidding procedures.

ESM A450 Economic Analysis and Operations 3 CR
Contact Hours: 3 + 0
Special Note: Not offered for credit toward the master of science in engineering management or science management.
Fundamentals of engineering economy, project scheduling, estimating, legal principles, professional ethics, and human relations.

ESM A601 Engineers in Organizations 3 CR
Contact Hours: 3 + 0
Registration Restrictions: BS degree in Engineering or in a physical science.
Special Fees.
Development of organizations and techniques appropriate to managing engineering and scientific effort. Included will be a study of engineering and scientific activity and personnel in order to organize, motivate, evaluate, develop, and coordinate for maximum effectiveness, with due consideration to the goals of individuals.

ESM A605 Engineering Economy 3 CR
Contact Hours: 3 + 0
Special Fees.
The science of fiscal decision making. Graduate level studies in problems of replacement, economic selections, income tax accounting, engineering evaluation and introduction to the problems of depreciation.

ESM A606 Advanced Engineering Economy 3 CR
Contact Hours: 3 + 0
Prerequisites: ESM A605.
Case studies and research problems in engineering economy. Examples in the following areas will be included: present worth, internal rate of return, public projects, mutually exclusive alternatives, capital budgeting, income taxes, inflation and geometric gradients, uncertainty, replacement and retirement, and sources of funds.

ESM A608 Legal Environment for Engineering Management 3 CR
Contact Hours: 3 + 0
Devoted to those aspects of law specifically related to technical management: contracts, sales, real property, business organization, labor, patents, and insurance.

ESM A609 Project Management 3 CR
Contact Hours: 3 + 0
Organizing, planning, scheduling, and controlling projects. Use of CPM and PERT; computer applications. Case studies of project management problems and solutions.

ESM A610 Cost Estimating 3 CR
Contact Hours: 3 + 0
Registration Restrictions: BS degree in Engineering or in a physical science or faculty permission.
Stacked with: ESM A401.
Principles, practices and procedures used in the preparation of engineering cost estimates. Exposition of the basic concepts and steps required to develop engineering type, labor and material based, and parametric cost estimates. Preparation of cost proposals and study of bidding procedures. Students will manage the student project teams, prepare a research paper, and make a class presentation.

ESM A613 Management of Technical People 3 CR
Contact Hours: 3 + 0
Registration Restrictions: BS degree in Engineering or in a physical science.
Human factors with which engineers and scientists will be involved in the work place. Includes labor and union concerns, human relations as a major factor in supervision, and other problems of the engineer or scientist in working with people.

ESM A617 Technology Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: 9 credits in management and fiscal areas of ESM programs, or 9 credits beyond foundation courses in MBA program.
Crosslisted with: BA A617.
Issues and case studies of policy development, strategy, planning and management of technology in the overall corporate environment.

ESM A619 Computer Simulation of Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A601 or ESM A620.
Crosslisted with: BA A619.
Special Fees.
Intensive study of simulation concepts and methods, introduction to major simulation languages. Survey of simulation applications in various disciplines.

ESM A620 Statistics for ESM 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Undergraduate Statistics course.
Special Fees.
Development of an overall perspective on the role of statistics within the framework of engineering and management decision making. Includes the use of statistical software.

ESM A621 Operations Research 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Undergraduate probability and statistics course.
Mathematical techniques for aiding managerial decision making. Topics will include waiting line theory, inventory models, linear programming, transportation problems, dynamic programming, PERT/CPM, Markov chains, and simulation. The emphasis is on the application of techniques to engineering management situations.

ESM A622 Management Decision Under Uncertainty 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Background in probability theory and proficiency in use of computer for spreadsheet analysis.
Decision theory, risk and uncertainty, value of information, preference measurements, prioritization of alternatives, multiple objectives and hierarchical decisions. Case studies are incorporated into lectures.

ESM A623 Total Quality Management 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A601 or ESM A620 and [BA A632 or ESM A601].
Crosslisted with: BA A623.
Special Fees.
Brief history of the origins of modern quality management; review of basic tools for continuous quality improvement involving everyone in the organization. The organizational climate for continuous improvement. Survey of statistical tools for continuous quality improvement.

ESM A625 Marketing of Business Products and Services 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing in the MBA or ESM programs.
Crosslisted with: BA A625.
Marketing of business products and business advisory services to organizational customers including government and institutions. Business marketing environment, strategic planning, segmentation, organizational buying behavior, product planning and innovation, pricing, promotion, and physical distribution. Relationship marketing, service quality, customer satisfaction and value creation, and negotiation. Issues in business ethics, global context, and professional services. Cases in business marketing.

ESM A684 ESM Project 3 CR
Contact Hours: 3 + 0
Individual study of an actual engineering or science management problem, resulting in a report which includes recommendations for action.

ESM A698 Individual Research 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Faculty permission. MS level.
A course to be designed between the student and faculty member to allow students the chance to pursue special advanced interests in Engineering/Science Management at the

ESM A699 ESM Thesis 1-9 CR
Contact Hours: 1-9 + 0

ELECTRONICS - ET

http://www.uaa.alaska.edu/et/dir1.htm
AYET@UAA.ALASKA.EDU
Offered through the Community & Technical College
Gordon Hartlieb Building (GHB), Room 106, 786-6465

ET A101 Basic Electronics: DC Physics 4 CR
Contact Hours: 3 + 3
Prerequisites: MATH A055.
Offered only at Kenai Peninsula College.
Course assumes no previous knowledge of electronics and prepares the student for further study. Subjects included are basic physics of electricity, direct current and practices, magnetism, and use of test equipment. Two hours lab per week.

ET A102 Basic Electronics: AC Physics 4 CR
Contact Hours: 3 + 3
Prerequisites: ET A101.
Offered only at Kenai Peninsula College.
Principles of alternating current, vectors, phase relationships, inductive and capacitive reactance and impedance. AC circuit analysis, series and parallel resonant circuits, transformers, and network analysis. Two hours lab per week.

ET A103 Electronic Calculations I 4 CR
Contact Hours: 3 + 2
3-hours lecture and 2-hours lab per week. Teaches calculation skills necessary to succeed in DC Circuits. Numeric systems (binary, octal, hex), arithmetic, logarithms, and algebraic operations. Required lab practice of calculations taught in lectures.

ET A104 DC Circuits 4 CR
Contact Hours: 4 + 0
Corequisite: ET A106.
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 4 CR
Contact Hours: 2 + 4
Corequisite: ET A104.
Special Fees.
2-hours lecture and 4-hours lab per week. Class covers electronic experiments and projects for ET 104. 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 4 CR
Contact Hours: 2 + 0
Corequisite: ET A125.
Offered only at Matanuska-Susitna College.
Two semester hour laboratory class covering experiments and projects for AC Physics. This class will provide the student with the physical skills necessary for the study of alternating-current physics. Lab experiments in frequency measurement, AC voltage measurement, voltage-current phase angle, time constant, and resonant circuit will be covered.

ET A120 Motors and Controls 3 CR
Contact Hours: 3 + 0
Crosslisted with: AGRI A133 and RH A120.
Offered only at Matanuska-Susitna College.
Provides understanding of principles of operation of motors, generators, transformers, and motor control apparatus. Study of definitions, symbols, diagrams, and illustrations gives a sound background in the language and basic principles associated with electricity, electrical equipment, electrical apparatus and electrical code principles.

ET A122 Introduction to Electronic Devices 3 CR
Contact Hours: 3 + 0
Prerequisites: ET A125.
Offered only at Matanuska-Susitna College.
A study of vacuum tube and solid state devices. Physics, construction, characteristics, parameters, application, and limitations are covered.

ET A123 Electronic Circuit Fundamentals 3 CR
Contact Hours: 3 + 0
Prerequisites: ET A122.
Offered only at Matanuska-Susitna College.
An analysis of basic electronic circuits. Power supplies, amplifiers, and oscillators. Operational and failure analysis of basic circuits, with troubleshooting procedures for each type.

ET A124 Electronic Calculations II 4 CR
Contact Hours: 4 + 0
Prerequisites: ET A103 and ET A104 and ET A150 and ET A106.
4-hours lecture per week. Covers Boolean algebra, trigonometry, graphs, analytic geometry, waveform analysis, and decibel (db) calculations. Lab consists of calculation practice necessary to master AC Physics course.

ET A125 AC Circuits 4 CR
Contact Hours: 3 + 2
Prerequisites: ET A103 and ET A104 and ET A106.
Special Fees.
3-hours lecture and 2-hours lab per week. Covers principles of alternating current and voltages through linear amplifiers, magnetics, 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 4 CR
Contact Hours: 3 + 2
Registration Restrictions: High school math and reading skills.
Special Fees.
Introduces concepts of digital logic circuitry including, but not limited to, number systems, logic gates, switches, displays, counters, registers, decoders, mux and demux circuits, and converters.

ET A127 Microprocessor Fundamentals 3 CR
Contact Hours: 3 + 0
Prerequisites: ET A126.
Offered only at Matanuska-Susitna College.
Microprocessor theory and operation; topics covered include basic microprocessor architecture, how to program a microprocessor, how to interface a microprocessor to other equipment, and troubleshooting microprocessor circuits and systems.

ET A128 Solid State Electronics: Theory and Laboratory 4 CR
Contact Hours: 3 + 3
Prerequisites: ET A103 and ET A104 and ET A106.
Special Fees.
3-hours lecture and 3-hours lab per week. Familiarizes students with AC measuring techniques and AC test equipment. Includes technical characteristics of bipolar transistors and diodes. Practice in advanced soldering and desoldering techniques.

ET A150 Introduction to Computer Electronics 4 CR
Contact Hours: 3 + 2
Prerequisites: ET A126 with minimum grade of C.
Special Fees.
Introduces basic concepts of computer systems, and develops both operating and programming skills. Covers microcomputer systems and applications, computer-related math, operating systems, and machine language and assembly language programming. Completion of one or more machine or assembly language programs as part of lab assignments.

ET A151 Basic Electricity 4 CR
Contact Hours: 3 + 3
Prerequisites: MATH A055.
Offered only at Kenai Peninsula College.
A first course in electricity for the non-electronics major. Covers basic DC and AC theory including series, parallel, and series-parallel circuits, reactance, impedance and selected circuit analysis techniques. This lab will emphasize practical measurement with meters and oscilloscopes.

ET A175 Technical Introduction to Microcomputers 3 CR
Contact Hours: 3 + 0
Offered only at Kenai Peninsula College.
Provides the student with a survey of the field of microcomputers from a technical viewpoint. Coverage includes terminology, number systems, basic microcomputer architecture, assembly language programming, and MS/DOS operating system.

ET A190 Selected Topics in Electronics Technology 1-4 CR
Contact Hours: 1-4 + 0-12
Special Note: Prerequisite may be imposed depending on topic.
Offers selected topics in electronics pertaining to state-of-the-art technology and trends. Course content is determined by current trends, new technologies, and student and employer needs.

ET A200 Residential Wiring 3 CR
Contact Hours: 2 + 2
Offered only at Kenai Peninsula College.
Designed for those who want to wire their own homes or just understand more about electrical wiring. AC and DC theory, practical wiring including feeder and branch circuits, low-voltage wiring and alarm systems.

ET A205 Transmitter Circuitry 3 CR
Contact Hours: 2 + 2
Offered only at Matanuska-Susitna College.
Methods and techniques used in the transmission of intelligence by AM, FM, and SSB radio propagation. The study of circuitry and antennas designed to modulate and transmit AM, FM, and SSB transmitters. Alignment and troubleshooting of AM, FM, and SSB transmitters.

ET A207 Rotating Machinery 3 CR
Contact Hours: 3 + 0
Prerequisites: ET A102.
Offered only at Kenai Peninsula College.
Theory of operation of DC motors and generators, AC single-phase motors and generators, and AC poly-phase motors. Course includes operating characteristics of the devices and stresses application.

ET A209 Receiver Circuitry 3 CR
Contact Hours: 3 + 1
Prerequisites: ET A205.
Offered only at Matanuska-Susitna College.
Methods and techniques used in the reception, demodulation, detection, and reproduction of radio intelligence transmitted by AM, FM, and SSB. Block diagram and schematic interpretation of AM, FM, and SSB receivers. Alignment and troubleshooting procedures used in AM, FM, and SSB receivers.

ET A210 Electronic Communication Techniques 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Electronics background.
Offered only at Kenai Peninsula College.
Basic communication theory as applied to AM, FM, and SSB receivers and transmitters. Designed for students interested in obtaining an FCC license.

ET A216 Personal Computer Servicing 3 CR
Contact Hours: 1 + 4
Prerequisites: ET A126 and ET A127.
Teaches how to service, maintain, upgrade and optimize personal computers, from general circuitry theory to preventive maintenance to module/board level troubleshooting to repair and system configuration.

ET A217 Personal Computer Troubleshooting 3 CR
Contact Hours: 1 + 4
Prerequisites: ET A126 and ET A127 and ET A216.
Teaches computer troubleshooting to the component level using factory test equipment and technical service manuals.

ET A218 Personal Computer Networking 3 CR
Contact Hours: 1 + 4
Prerequisites: ET A126 and ET A127 and ET A216 and ET A217.
Teaches how to specify, install and maintain local area networks, basics and protocols of data communication and communication architectures, LAN cabling, Network Operating Systems, and internet working. Also managing and troubleshooting networks and internetworks.

ET A220 Wideband Systems I 3 CR
Contact Hours: 3 + 1
Prerequisites: ET A209.
Offered only at Matanuska-Susitna College.
Television as a system. Introduction to video systems, including transmission, reception and system alignment.

ET A225 Principles of Microwave Electronics 3 CR
Contact Hours: 3 + 1
Offered only at Matanuska-Susitna College.
Course in microwave electronics for the technician. Theory of wave propagation, microwave oscillators, and basic transmitting and receiving systems for radar and telecommunications.

ET A226 Industrial Electronics 3 CR
Contact Hours: 3 + 0
Prerequisites: ET A225.
Offered only at Matanuska-Susitna College.
Introduction to the use of industrial electronics circuits and equipment. Theory of operation, magnetic amplifiers, motor speed controls, voltage and current control in DC and AC generators, synchro and servo systems, and large current polyphase rectifiers.

ET A230 Telecommunications 4 CR
Contact Hours: 3 + 2
Prerequisites: ET A124 and ET A125 and ET A126 and ET A128.
Special Fees.
3-hours lecture and 2-hours lab per week. Prepares student electronic technicians to understand operation, construction, and maintenance of telephone sets, cables, and switching systems. Includes systems operation, 500-D telephone set, cable code distribution, characteristic impedance, decibel and x-y switching systems, frequency and time division multiplex, and principles of microwave transmission. Lab projects on telephone equipment.

ET A231 Audio 4 CR
Contact Hours: 3 + 2
Prerequisites: ET A124 and ET A125 and ET A126 and ET A128.
Special Fees.
3-hours lecture and 2-hours lab per week. Presents circuitry and practical experience in troubleshooting audio home entertainment equipment. Includes audio amplifiers, transducers, tape recorders, phonographs, and electronically regulated power supplies. Lab projects using typical equipment.

ET A232 Applied ICS 4 CR
Contact Hours: 3 + 2
Prerequisites: ET A124 and ET A125 and ET A126 and ET A128.
Special Fees.
3-hours lecture and 2-hours lab per week. Study of ideal operation amplifier circuits. Covers amplification, generation of sinusoidal and special application waveforms, active filters, power supply regulation, and circuit timers. Lab projects using appropriate equipment.

ET A233 Microcomputer Architecture 4 CR
Contact Hours: 3 + 2
Prerequisites: ET A126 with minimum grade of C and ET A150 with minimum grade of C.
Special Fees.
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.

ET A240 Application of Integrated Circuits 3 CR
Contact Hours: 3 + 0
Prerequisites: ET A126.
Offered only at Kenai Peninsula College.
Coverage includes characteristics and interfacing information on DTL, TTL, and CMOS devices with emphasis on MSI and LSI chips. Microprocessor interfacing conversion will be covered.

ET A241 Microcomputer Interfacing 3 CR
Contact Hours: 3 + 0
Prerequisites: ET A175 and ET A240.
Offered only at Kenai Peninsula College.
Deals with the problems of communication between the computer operating system environment and the real-time, outside world. Specifically includes serial communication, analog/digital and digital/analog conversions, discrete input/output multiplexing, and bus architecture.

ET A242A Computer Peripheral Devices: Theory and Maintenance 2 CR
Contact Hours: 1 + 2
Prerequisites: (ET A240 or concurrent enrollment) and (ET A242B or concurrent enrollment).
Instruction and maintenance of computer peripheral devices and sub systems including printers, stepper motors, switching power supplies, and microcontrollers. Troubleshooting and repair techniques will be stressed.

ET A242B Computer Peripheral Devices: Network Technology 2 CR
Contact Hours: 1 + 2
Prerequisites: ET A126.
Registration Restrictions: Basic knowledge of electricity and previous programming experience.
Covers both hardware and software as it applies to computer networking. Designed for the technically oriented individual desiring to maintain or increase knowledge of networks. Students will design, construct, and manage a small LAN.

ET A243 Programmable Logic Controllers 3 CR
Contact Hours: 3 + 0
Prerequisites: ET A126.
Offered only at Kenai Peninsula College.
Introduction of discrete input/output control including ladder diagrams and electromechanical relays. The use of programmable logic controllers to monitor and control discrete devices is the primary focus.

ET A245 Basic Electronics 4 CR
Contact Hours: 3 + 3
Prerequisites: ET A101 or ET A151.
Offered only at Kenai Peninsula College.
Gives the student a broad background in semiconductor devices. Coverage includes diodes, transistors, FETs and operational amplifiers. The lab will emphasize troubleshooting techniques of practical semiconductor circuits.

ET A246 Electronic Industrial Instrumentation 3 CR
Contact Hours: 3 + 0
Prerequisites: ET A245 and (MATH A101 or concurrent enrollment) and (MATH A105 or concurrent enrollment).
Offered only at Kenai Peninsula College.
Explains the methods of analog electronic signal transmission. In addition, discusses the details of several actual pieces of equipment in-depth providing practice in establishing correct interconnectors. Basic concepts used in troubleshooting this type of equipment are also introduced.

ET A250 Transmitters and Receivers 4 CR
Contact Hours: 3 + 2
Prerequisites: ET A230 and ET A231 and ET A232.
Methods and techniques used in transmission and reception of AM, SSB, and FM signals. Aligning and troubleshooting equipment. Block diagram and schematic interpretation, and use in troubleshooting.

ET A251 Video Systems Analysis 4 CR
Contact Hours: 3 + 2
Prerequisites: ET A230 and ET A231 and ET A232.
An introduction to video systems, including television transmission and reception, computer monitors, and video recording principles. Emphasis is on diagnosing and repairing video equipment in the laboratory.

ET A252 Computer Systems II 4 CR
Contact Hours: 3 + 2
Prerequisites: ET A150 and ET A126 and ET A233.
Survey of microcomputers as applied to measurement and control of areas of selected emphasis. Topics include sensors and control devices, control theory, digital and analog process control. Experiments with selected sensors, stepper motors, D/A and A/D converters.

ET A253 Computer Systems III 4 CR
Contact Hours: 3 + 2
Prerequisites: ET A230 and ET A231 and ET A232 and ET A233.
Microcomputer interfacing to standard peripheral equipment. Includes parallel and serial interfacing methods, transmission characteristics, multi-user architecture, and interfacing to auxiliary memory systems. Labs on parallel and serial interfacing with associated operating systems patches.

ET 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 A295 Electronics Technician Internship 1-3 CR
Contact Hours: 0 + 6-18
Registration Restrictions: Sophomore standing in the ET program.
Grade Mode: Pass/No Pass.
Places students in generalized and specialized electronics positions related to student educational program and occupational objectives. Direct supervision by position supervisor and program faculty. Five student involvement hours with instructor plus 80 employment hours per credit.

ET A340 Digital Systems 4 CR
Contact Hours: 4 + 0
Prerequisites: ET A125 or AT A274 or ES A309 or PHYS A110.
Special Fees.
Covers the fundamentals of design, selection, installation, operation, servicing, troubleshooting and repair of digital systems from logic and gating circuits through microprocessors and analog/digital interfacing.

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.

ET A420 Applied Electronic Instrumentation 4 CR
Contact Hours: 4 + 0
Prerequisites: ET A125 or AT A274 or ES A309 or PHYS A110.
Covers fundamentals of design, selection, installation, operation, servicing, troubleshooting and repair of electrical and electronic instrument systems.

FAMILY AND CONSUMER SCIENCES - FCS

Offered through the Community & Technical College
Beatrice McDonald Building (BMB), Room 116, 786-6423

FCS A120 Learn to Sew 1 CR
Contact Hours: 0 + 2
Basic principles of sewing and simple clothing construction. Includes use of sewing machine, selection of fabrics and patterns, and simple construction techniques. Students must provide own sewing equipment (except sewing machine) and all patterns and fabrics for class projects.

FCS A121 Basic Clothing Construction 3 CR
Contact Hours: 2 + 2
Special Note: Course may be repeated any number of times, but maximum 6 credits applicable toward degree requirements. Prerequisite for all other clothing classes.
For beginning students as well as those wishing to update techniques in quality and efficient garment construction. Experience in use of sewing machines and other equipment. Selection of patterns, fabrics, and notions, and construction of at least four garments. Stresses fundamental sewing techniques and unit construction.

FCS A122 Sewing Power 3 CR
Contact Hours: 1 + 4
Prerequisites: FCS A120 or FCS A121.
Television course in clothing construction and wardrobe management. Introduction to basic sewing. concepts, vocabulary, tools, materials, and skills. Analysis and planning of individual wardrobe through construction of "Core wardrobe."

FCS A124 Sewing Topics 1-3 CR
Contact Hours: 1-3 + 2-6
Prerequisites: FCS A121 or FCS A122.
Special Note: May be repeated any number of times, but a maximum of 6 credits applicable toward degree requirements.
Flexible workshops offering variety of specialized clothing and textile skill techniques.

FCS A129 Individualized Clothing Construction 1-3 CR
Contact Hours: 0 + 6
Prerequisites: FCS A121.
Special Note: Course may be repeated any number of times with different skill emphasis each time, but maximum 6 credits applicable toward degree requirements.
Individualized course for students who wish to contract for construction of garments to meet personal needs. Students learn techniques to advance their own skills.

FCS A130 Textiles 3 CR
Contact Hours: 3 + 0
Survey of natural and man-made fibers, yarns, and fabric construction. Application of color, design, and finishes of textile products. Performance, selection, and care of textiles, and appreciation from consumer point of view.

FCS A180 Personal Profile 1 CR
Contact Hours: 1 + 0
Positive image development through personal analysis, wardrobe planning, and preparation for employment.

FCS A192 Selected Topics in Assistive Care 1-5 CR
Contact Hours: 1-5 + 0
Special Note: May be taken for up to 15 credits with a change of subtitles. See schedules for specific title offerings.
Provides enhancement of knowledge and skills for entrance and advancement in the field of residential assistive care. Selected topics cover improvement of technical and practical abilities in the areas of foods and nutrition, family sciences, human development and community resources.

FCS A234 Pattern Drafting: Design 2 CR
Contact Hours: 1 + 2
Prerequisites: FCS A121.
Theory of flat pattern drafting and application of design methods to create original patterns. Techniques applied to design and construction of four half-sized garments and one full-sized outfit.

FCS A276 Managing Home Resources 3 CR
Contact Hours: 3 + 0

Develops the necessary skills, knowledge, motivation and aptitudes to analyze and organize time, money, and energy in personal and family living situations. Explores relationship between personal and family management skills and workplace success skills as they relate to quality of life. Covers management concepts to improve problem solving techniques and long- and short-term decision making in the home.

FCS A277 Family and Parenting 3 CR
Contact Hours: 3 + 0

Develops and enhances skills for parents, health care providers, social service workers and other persons working within the family environment. Covers developmental stages within the family life cycle with emphasis on acquiring skills and techniques used to improve the quality of relationships within a family. A holistic approach to family and parenting is emphasized.

FCS A295 Practicum in Assistive Care 3 CR
Contact Hours: 0 + 16
Registration Restrictions: C or better in 9 credits of FCS A192, FCS A276, and one of PSY, HUMS or DN program course options.

Provides the opportunity to work in a variety of caregiving environments under the supervision of an agency coordinator and university faculty. Emphasizes direct application of caregiving skills while gaining knowledge and understanding of caregiving agencies and systems.

FLORAL DESIGN - FD

Offered through the Community & Technical College
Lucy Cuddy Center (CUDY), Room 126, 786-4728

FD A161 Floral Design I 3 CR
Contact Hours: 2 + 2
Special Fees.
Special Note: Appropriate for persons with personal and professional interests.

Covers basic principles, techniques, and mechanics of floral design, flower identification and selection, and the use and care of equipment and supplies.

FD A162 Floral Design II 3 CR
Contact Hours: 2 + 2
Prerequisites: FD A161.
Special Fees.

Covers basic principles, techniques, and mechanics of 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.

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.

Covers basic principles, techniques, and mechanics of sympathy (funeral) floral designs using fresh plant materials. Includes pricing and selling sympathy arrangements and servicing a funeral.

FD A195A Floral Design Practicum I 1 CR
Contact Hours: 0 + 3
Prerequisites: (FD A161 or concurrent enrollment).
Special Fees.

Application of principles of floral art and design, and flower identification and selection. Includes planning specific arrangements as assigned by the instructor, purchasing supplies needed, and producing completed projects within a specific timeframe and budget.

FD A195B Floral Design Practicum II 2 CR
Contact Hours: 1 + 3
Prerequisites: FD A162 and FD A195A and (FD A163 or concurrent enrollment) and (FD A164 or concurrent enrollment).
Special 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.

FORESTRY TECHNOLOGY - FORT

Offered through the Community & Technical College
This program is offered in cooperation with the Alaska Vocational Technical Center in Seward. All forestry courses must be taken at the AVTEC, the Technical Center, in Seward. For further information contact: Admissions and Records Coordinator, Kenai Peninsula College, 34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

FORT A105 Introduction to Forestry 3 CR
Contact Hours: 3 + 1

Introduction to forestry and identification of the different specialties and opportunities that exist in the profession. Instruction in the concepts of multiple use, the many products available from forest areas, and the role of the forestry technician as a specialist in each of several areas.

FORT A110 Land Surveying/Mapping 3 CR
Contact Hours: 2 + 1

Teaches proficiency in mapping, boundary location, and the use of maps for field orientation. The major instruments used will be chain tape, clinometer, calculator, and mapping compass. Includes survey problems which will require drafting maps or plats.

FORT A120 Forest Ecology and Dendrology 3 CR
Contact Hours: 0 + 9
Prerequisites: FSA A151 and FORT A105.

A field oriented course. Identification of all common trees and shrubs in the summer work locality, their ecological group associations, successional stages, and habitat. The influence of soil and climate upon survival and growth will be stressed.

FORT A125 Forest Regeneration 2 CR
Contact Hours: 1 + 3
Prerequisites: FORT A195 or FORT A120.

Emphasis on techniques available to the technician to insure forest regeneration on areas burned or logged.

FORT A130 Forest Entomology and Pathology 3 CR
Contact Hours: 2 + 3
Prerequisites: FORT A195 or FORT A120.

Entomology and pathology are combined here to reduce field time and increase diagnostic efficiency. Instruction in identifying many Alaskan forest insects and diseases. Common diseases and insects will be identified by observation of their injury symptoms on forest trees.

FORT A195 Forestry Practicum 3 CR
Contact Hours: 0 + 9
Prerequisites: FSA A151 and FORT A105.

Provides 17 weeks of guided educational experiences in the forests of Alaska allowing a realistic picture of future career opportunities by becoming familiar with agency expectations. Association with a variety of professional specialists broadens the training experiences.

FORT A205 Cruising and Scaling 2 CR
Contact Hours: 1 + 3
Prerequisites: FORT A195 or FORT A120.

Instruction in the methods of measuring forest products in the forest, as standing timber, and on the ground as logs or pulpwood. Make trial inventories of selected stands and measure and grade decked logs. Review in both fixed plot and variable plot cruising techniques.

FORT A215 Forest Growth and Silviculture 3 CR
Contact Hours: 2 + 3
Prerequisites: FORT A195 or FORT A120.

Explores the life of forest stands in terms of growth and survival, and the way growth can be controlled to produce desired forest products. Learn how to risk rate and measure the age, site index, density, and form class of forest stands. Explanation of the common means of improving growth or product quality.

FORT A220 Wildlife Management 3 CR
Contact Hours: 3 + 0
Prerequisites: FORT A205.

Describes habitat requirements, and methods that can be used to increase particular species. Includes methods of population inventories, control of excess animals, and techniques for determining carrying capacity. Review of stream protection and enhancement.

FORT A225 Forest Recreation 3 CR
Contact Hours: 3 + 0
Prerequisites: FORT A205.

Instruction in both theory and management of wildland recreation. Learn the problems created in the forest by various recreational users and common methods used to reduce these problems, improve recreational quality, and eliminate user conflicts. Review of construction and maintenance of recreational facilities and trails.

FORT A230 Remote Sensing 3 CR
Contact Hours: 2 + 3
Prerequisites: FORT A220.
Designed for making measurements and gathering information from aerial photographs. Emphasizes use of stereoscope and measuring instruments. Instruction in linear, area, and height measurements, scale conversations, and determination of scale. Identification of common objects and timber types will be practiced in sessions combining field and lab analysis.

FORT A235 Timber Harvesting and Sale Administration 4 CR
Contact Hours: 4 + 0
Prerequisites: FORT A220.
Teaches how to maximize profits for a company or agency while reducing environmental damage and providing for sustained yield of future forest harvests. Examination of ongoing timber sales and contracts. Explains the use and application of various forms of harvesting equipment.

FRENCH - FREN

http://www.uaa.alaska.edu/romance/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030

FREN A101 Elementary French I 4 CR
Contact Hours: 4 + 0
Course Attributes: GER Humanities
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 A101E Elementary French I 3 CR
Contact Hours: 3 + 0
Offered only at extended colleges.
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
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 A102E Elementary French II 3 CR
Contact Hours: 3 + 0
Prerequisites: FREN A101E.
Offered only at extended colleges.
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 A201 Intermediate French I 4 CR
Contact Hours: 4 + 0
Prerequisites: FREN A102.
Course Attributes: GER Humanities
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 A201E Intermediate French I 3 CR
Contact Hours: 3 + 0
Prerequisites: FREN A102E.
Offered only at extended colleges.
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
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 A202E Intermediate French II 3 CR
Contact Hours: 3 + 0
Prerequisites: FREN A201E.
Offered only at extended colleges.
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 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.
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 A310 Selected Topics in Advanced French 3 CR
Contact Hours: 3 + 0
Prerequisites: FREN A202.
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.
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 Science Building (AHS), Room 155, 786-6476

Classes are held at the Fire Department Training Center, 1140 Airport Heights Road, 278-2324.

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 fireground.

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 extrication.

FSA A121 Introduction to Fire Chemistry 3 CR
Contact Hours: 3 + 0
Special Fees.
Introduction to nomenclature, principles, and procedures of fire chemistry, supplemented by basic math and physics as related to fire problems.

FSA A123 Fire Investigation I 3 CR
Contact Hours: 3 + 0
Determining types and causes of fires. Introduction to arson and incendiarism, including recognizing and preserving evidence, interviewing witnesses and suspects, arrest and detention procedures. Court procedures, giving court testimony, and related laws.

FSA A151 Wildland Fire Control I 3 CR
Contact Hours: 3 + 0
For employed firefighters and fire science majors. Covers fundamental factors affecting wildland fire prevention, fire behavior, and control techniques.

FSA A202 Fire Hydraulics 3 CR
Contact Hours: 3 + 0
Special Fees.
Review of mathematical hydraulic laws as applied to fire science. Application of formulas and calculations to hydraulics and water supply problems.

FSA A204 Hazardous Materials I 3 CR
Contact Hours: 3 + 0
Introduction to basic fire chemistry and physics. Problems of flammability as encountered by firefighters when dealing with fuels and oxidizers. Elementary firefighting practices for hazardous materials in transit and storage.

FSA A206 Building Construction for Fire Protection 3 CR
Contact Hours: 3 + 0
Fundamentals of building construction as related to fire protection. Classifications by occupancy and type of construction with emphasis on fire protection facilities, equipment, fire-resistive materials, and high-rise consideration.

FSA A210 Hazardous Materials II 3 CR
Contact Hours: 3 + 0
Special Fees.
Second semester course in hazardous materials. Covers handling, identification, and firefighting practices for explosive, toxic, and radioactive materials in transit and storage.

FSA A212 Related Codes and Ordinances 3 CR
Contact Hours: 3 + 0
Special Fees.
Background and interpretation of national, state, and local codes, ordinances, and laws which influence fire prevention field.

FSA A214 Fire Protection Equipment and Systems 3 CR
Contact Hours: 3 + 0
Study of portable fire extinguishing equipment, protection devices, and systems for special hazards. Sprinkler, fire detection, and alarm systems.

FSA A216 Methods of Instruction for Fire Service 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Grade Mode: Pass/No Pass.
This is the State of Alaska "Fire service training methods of instruction" course. Satisfies the state requirements for both basic and advanced MOI. Upon successful completion of this course the student will be eligible to test for state fire service instructor.

FSA A217 Advanced Rescue Practices 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Basic background in fire science.
Special Fees.
Basic information and specific skill training on approach, evaluation, and safe completion of complicated rescues. Includes hands-on activities. Covers rescue equipment, extrication from vehicles, metropolitan rescues, natural disasters, and high places.

FISHERIES TECHNOLOGY - FT

Offered through Kodiak College
117 Benny Bensen Dr., Kodiak, Alaska, 99615, (907) 486-4161.

FT A100 Gillnet Hanging and Repair 1 CR
Contact Hours: 0 + 2
Offered only at Kodiak College.
Special Note: Equipment to supplement your own may be necessary.
Theory and practice of gillnet hanging and repair, specifically applied to Alaska salmon and herring gillnet fisheries, including special techniques. Work on your own net.

FT A101 Alaska Trawl Nets and Midwater Nets 2 CR
Contact Hours: 1 + 2
Offered only at Kodiak College.
Overall view of trawl fisheries and nets in Alaskan waters, net designs, terminology, with emphasis on how to build and repair bottom and midwater nets.

FT A102 Net Mending 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Methods of repairing gillnets, seines, and trawls. Materials used in construction of webbing, twine types, trimming holes, mending holes, and inserting patches will be covered. Emphasis on proper knots and techniques.

FT A103 Outboard Maintenance and Repair 1 CR
Contact Hours: 0 + 2
Special Note: Student supplies used outboard motor.
Preventive maintenance and troubleshooting of basic outboard motors.

FT A105 Scuba Training 3 CR
Contact Hours: 2 + 2
Lectures on diving techniques, gear safety with emphasis on crisis situations, supplemented with work in pool and ocean environment. Diver's certificate given upon successful completion.

FT A113 Coastal Piloting and Navigation 3 CR
Contact Hours: 3 + 0
Development of navigation techniques and familiarity with local water. Includes chart reading, compass, piloting, aids to navigation, and rules of the road.

GEOMATICS - GEO

http://www.engr.uaa.alaska.edu
Offered through the School of Engineering
Beatrice McDonald Building (BMB), Room 210B, 786-6430

GEO A137 Automated Mapping Techniques 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Computer competency (see admission requirements).
Special Fees.
Principles of computer aided design and mapping. Introduction to CADD software and related hardware. Basic mapping principles in lettering, line and circle geometry, line quality, line types, coordinate systems, line annotation, and dimensioning. Use of drawing, editing, and hatching commands. Use, preparation, and reproduction methods of CADD mapping.

GEO A155 Introduction to Geomatics 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Computer competency (see admission requirements).
Special Fees.
Introduction to the profession of geomatics. Professional obligations and ethics. Projects in instrumentation, photogrammetry, remote sensing, legal research, CADD mapping, geomatic computations, and geographic information systems.

GEO A157 Analytical and Digital Cartography 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Computer competency (see admission requirements).
Special Fees.
Introduction to principles of computer aided design and mapping. Computer influences on cartography. Map data structures and non-map data structures. Map projections and transformations. Mapping standards. Automated mapping projects. Cartographic hardware and software.

GEO A158 Geomatics Computer Fundamentals 3 CR
Contact Hours: 2 + 2
Special Fees.
Introduction to IBM compatible PCs. Basic manipulation of various operating platforms. Hardware and software components. Introduction to word processing, spreadsheet, and database software for geomatics applications. Basic programming for geomatics problems.

GEO A166 Elements of Geomatics Measurements 3/4 CR
Contact Hours: 2+3 + 3
Registration Restrictions: Geomatics students: MATH A105 and GEO A155.
Engineering students: ES A111 or concurrent enrollment.
Special Note: Students may enroll for either 3 or 4 credits. Civil Engineering students should enroll for 3 credits; Geomatics students should enroll for 4 credits.
Introduction to survey measurement techniques. Use of conventional survey instrumentation, total stations, and data controllers. Acquisition and retrieval of geomatic data from digital controllers. Horizontal and vertical traversing and adjustment methods. Cadastral, topographic, and hydrographic projects.

GEO A167 Remote Sensing and Image Analysis 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Computer competency (see admission requirements).
Introduction to photo interpretation and imaging systems. Geometry of photogrammetry. Theory of electromagnetic spectrum. Application of remote sensing in engineering, archaeology, agriculture, and forestry using image analysis software.

GEO A248 Digital Terrain Cartography 3 CR
Contact Hours: 2 + 2
Prerequisites: GEO A157.
Intermediate level computer-aided mapping of digital information. Customizing menus. Advanced plotting techniques. Database structures. Digital terrain modeling. Mapping standards and accuracies. Professional liability of mappers.

GEO A250 Survey Employment Practicum 2 CR
Contact Hours: 0 + 6
Registration Restrictions: Completion of at least 12 GEO credits.
Special Fees.
Special Note: Students secure their own employment positions. Evaluation by both employer and UAA faculty.
Application of surveying theory and techniques while employed for at least five weeks with a professional licensed surveying firm or with a government agency that performs surveying or mapping.

GEO A256 Municipal and Civil Geomatics 4 CR
Contact Hours: 3 + 3
Prerequisites: MATH A200 and GEO A166.
Special Fees.
Methods of gathering survey data for civil surveys. Evaluation of survey data gathering methods. Geomatics applications for urban surveys. Construction staking for route surveys, small construction project. Platting and mapping techniques.

GEO A257 Elements of Photogrammetry 3 CR
Contact Hours: 2 + 2
Prerequisites: MATH A108.
Special Fees.
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 Cadastral Boundary Law 4 CR
Contact Hours: 4 + 0
Prerequisites: GEO A157 and GEO A256.
U.S. Rectangular system and U.S. Surveys within the public domain. Monumentation, restoration, and re-establishment of corners. Legal research.

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.
Concepts governing land development. Analysis of soil, topography, geometry, environmental impact, aesthetic and economic principles in land planning. Permitting process. Federal, state, and municipality platting regulations. Automated subdivision design and platting. Ethical considerations when developing land.

GEO A358 Programming for Digital Cartography 3 CR
Contact Hours: 2 + 2
Prerequisites: MATH A201 and CS A207.
Special Fees.
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.
Introduction to geometric geodesy. Computations on the ellipsoid. Elements of datums. Map projections and state plane coordinate systems. Coordinate transformations.

GEO A365 Geomatic Adjustment and Analysis 4 CR
Contact Hours: 4 + 0
Prerequisites: MATH A202 and GEO A359.
Analysis of errors and adjustments in geomatics measurements. Propagation of errors and variances. Statistical analyses and error ellipses. Geomatic accuracies and standards. Methods of least squares adjustment.

GEO 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.
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 Principles and Evidence 4 CR
Contact Hours: 4 + 0
Prerequisites: GEO A267 and ENGL A212.
Special Fees.
Study of boundary evidence, location, and preservation. Boundary law in the Alaska state statues and administrative codes. Interpreting and writing legal descriptions. Riparian boundaries and rights. Professional ethics. Intensive research, application, and interpretation of boundary law problems.

GEO A459 Geodetic Geomatics 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202 and GEO A359.
Special Fees.
Advanced topics in geometric geodesy and map projections. Introduction to physical geodesy. Programming of map projections transformations. Geodesy astronomy. Protracted townships.

GEO A460 Geomatics Design Project 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Senior standing in geomatics program with all 300-level courses completed.
Projects in geomatics. Research, design, data compilation, analyses, and mapping. Professional standards and ethical concerns for geomaticians.

GEO A466 Geopositioning 3 CR
Contact Hours: 2 + 2
Prerequisites: MATH A202 and GEO A359.
Introduction to positional systems, geodesy concepts, data collection and processing, analysis of advantages and limitations of geopositioning technologies.

GEO A467 Analytical and Digital Photogrammetry 3 CR
Contact Hours: 2 + 2
Prerequisites: GEO A257.
Theory of analytical photogrammetry including mathematical development of the rotation matrix, interior, relative, and absolute orientation. Programming of photogrammetric adjustments. Theory of strip and block adjustments. Independent projects in photogrammetric mapping.

GEO A490 Selected Advanced Topics in Geomatics 1-6 CR
Contact Hours: 0-6 + 0-12
Registration Restrictions: Faculty permission.
Advanced theoretical or practical concepts in geomatics. Specific course content is determined by student needs, developments in technology, or licensing requirements.

GEOGRAPHY - GEOG

Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 330, 786-1535

GEOG A101 Introduction to Geography 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences
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 A109 Fundamentals of Meteorology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: High school mathematics skills.
Crosslisted with: PHYS A109.
Introductory course in meteorology for non-specialists.

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
Analysis of the processes that form the physical environment and the resulting physical patterns. Study of landforms, climate, soils, water resources, vegetation, and their world and regional patterns. Optional laboratory of one additional credit.

GEOG A205L Elements of Physical Geography Laboratory 1 CR
Contact Hours: 0 + 3
Course Attributes: GER Natural Sciences
Special Fees.
Optional laboratory of one additional credit.

GEOG A206 Forces of Nature 3 CR
Contact Hours: 3 + 0
In-depth examination of major natural forces that shape the face of earth. Various topics from earthquakes and volcanoes to violent storms, glaciers, and other natural phenomena. Application to formation of Alaska landscape.

GEOG A207A The Edge of Fire—a Physical Geography of the American West 3 CR
Contact Hours: 3 + 0
Prerequisites: GEOG A205.
Special Note: A student may apply no more than 3 credits of GEOG A207A or GEOG A207B toward the graduation requirements for any degree.
Physical geography of the American West. The effects upon the landscape by climate, plate tectonics, volcanism, glaciation, and fluvial erosion. Regional study may include the desert Southwest, Hawaii, Pacific Northwest, Alaska, and coastal regions.

GEOG A207B The Edge of Fire—a Physical Geography of the American West 3 CR
Contact Hours: 1 + 4
Prerequisites: GEOG A205.
Special Note: A student may apply no more than 3 credits of GEOG A207A or GEOG A207B toward the graduation requirements for any degree.
Physical geography of the American West through fieldwork and lecture. The effects upon the landscape by climate, plate tectonics, volcanism, glaciation, and fluvial erosion. Regional study may include the desert Southwest, Hawaii, Pacific Northwest, Alaska, and coastal regions.

GEOG A341 Political Geography 3 CR
Contact Hours: 3 + 0
Prerequisites: GEOG A101 or PS A102.
Spatial arrangement and problems of nation-states. Territorial conflict within and between states. Electoral geography, districts, and gerrymandering with an emphasis on U.S. politics. The development and social effects of territorial institutions.

GEOG A342 Economic Geography and the Global Economy 3 CR
Contact Hours: 3 + 0
Registration Restrictions: GEOG A101 or A103, and ECON A101 (or higher) recommended but not required.
Basic tools of economic analysis in a spatial/geographical setting. Focuses on corporate change and the relationship between corporate strategy and the geographic structure of corporations. Examines recent changes in the spatial organization of industry and related issues. Special attention given to new industrial systems, e.g. JUST-in-time productions, national regional development policies, international trade agreements and the global division of labor.

GEOG A343 Historical Geography 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior standing.
The impact of the 'lay of the land' and settlement patterns and processes on human history. Attention to the historical geography of cities, rural settlement, and exploitation of natural resources. Examples drawn from Alaska and North America.

GEOLOGY - GEOL

Offered through the College of Arts and Sciences
Beatrice McDonald Building (BMB), Room 214, 786-6840

GEOL A100 Elements Of Geology 4 CR
Contact Hours: 3 + 3
Basic geology course covering glaciers, volcanoes, mineral resources, geologic processes, and other topics of interest to Alaskans. Lab utilizing, simulated field trip approach with audiovisual, self-guided materials. Students make observations and draw conclusions from specimens and field evidence as seen in slides.

GEOL A102 Introduction to Mineral Prospecting 2 CR
Contact Hours: 2 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Survey of topics and field work forming a foundation for the beginning prospector and to aid in the discovery of mineral deposits.

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 A105 Geology of America's National Parks 3 CR
Contact Hours: 3 + 0
An overview of the geologic story behind the magnificent scenery of America's national parks. Includes geologic features, processes, and fossils of selected areas.

GEOL A111 Physical Geology 4 CR
Contact Hours: 3 + 3
Prerequisites: MATH A055.
Course Attributes: GER Natural Sciences
Special Fees.
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 A111S Study Skills Supplement 1 CR
Contact Hours: 1 + 0
Corequisite: GEOL A111.
Aid to GEOL A111 students. Emphasizes skills to enhance comprehension, vocabulary, writing, and test-taking.

GEOL A112 Historical Geology 4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL A111.
Course Attributes: GER Natural Sciences
Special Fees.
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
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
Special Fees.
Investigation of problems in environmental geology related to hydrology, acid rain, pollution, and geologic hazards with emphasis on the Anchorage area. Independent study format includes reading, measurements, use of computer programs, and field trips.

GEOL A120 Alaska Mineral Resources 3 CR
Contact Hours: 3 + 0
Overview of mining activity in Alaska. Includes history of mining, current mining activity, analysis of the economic feasibility of mining in Alaska, and the origins of metallic mineral deposits using Alaskan mineral occurrences as examples.

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 in 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.

GEOL A189 Earth Revealed 1 CR
Contact Hours: 1 + 0
Telecourse which documents evidence of geologic principles at geographically diverse sites. The major geologic cycles and processes operating on the earth, geologic formations, earth history, earth's materials, and the interrelationships of geologic processes with man's activities.

GEOL A261 General Geology for Engineers 3 CR
Contact Hours: 2 + 3
Applied geology: study of common rocks and minerals, landforms, erosion, transportation, and deposition of geologic materials with emphasis on engineering applications.

GEOL A304 Geomorphology 4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL A112.
Special Fees.
Study of land forms and physical processes affecting their development. Lab includes interpretation of topographic maps and aerial photos.

GEOL A306 Structural Geology 4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL A111 and GEOL A112 and MATH A109.
Special Note: Offered every other year.
Origin, recognition, and interpretation of earth's primary and secondary structures with application to earth history, exploration and development of mineral resources. Laboratory includes projections, analysis of structural contours, cross sections, block diagrams and graphical solutions to structural problems.

GEOL A308 Sedimentation 4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL A111.
Special Note: Offered every other year.
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.

GEOL A313 Mineralogy 4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL A111 and MATH A105 and CHEM A105 and CHEM A105L.
Special Fees.
Special Note: Lecture/lab combined.
Crystallography including external form and internal order. Crystal chemistry, atomic structure, crystal structure, and compositional variation, nature and origin of physical properties. Mineral association, occurrence, and paragenesis. Introduction to x-ray crystallography and optical mineralogy. Laboratory includes determinative crystallography and systematic determinative mineralogy.

GEOL A314 Petrology 4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL A313.
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.

GEOL A330 Field Trips in Geology 2 CR
Contact Hours: 2 + 0
Prerequisites: GEOL A111 or GEOL A115.
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.

GEOL A372 Advanced Topics in Geology 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: GEOL A100 or GEOL A111 or GEOL A115.
Special Fees.
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.

GEOL A401 Invertebrate Paleontology 4 CR
Contact Hours: 3 + 3
Prerequisites: GEOL A112.
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
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 A101E Elementary German I 3 CR
Contact Hours: 3 + 0
Offered only at extended colleges.
Basic language course for beginners with little or no knowledge of German. Emphasis on everyday vocabulary, structure and current topics.

GER A102 Elementary German II 4 CR
Contact Hours: 4 + 0
Prerequisites: GER A101.
Course Attributes: GER Humanities
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 A102E Elementary German II 3 CR
Contact Hours: 3 + 0
Prerequisites: GER A101E.
Offered only at extended colleges.
Continuation of GER A101E for students with some knowledge of German. Emphasis on everyday vocabulary, structure and current topics.

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
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 A201E Intermediate German I 3 CR
Contact Hours: 3 + 0
Prerequisites: GER A102E.
Offered only at extended colleges.
Continuation of GER 102E with emphasis on useful, contemporary vocabulary. Develops understanding of cultures of major German-speaking countries and increases competence and confidence in speaking German. Review of major grammatical features.

GER A202 Intermediate German II 4 CR
Contact Hours: 4 + 0
Prerequisites: GER A201.
Course Attributes: GER Humanities
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 A202E Intermediate German II 3 CR
Contact Hours: 3 + 0
Prerequisites: GER A201E.
Offered only at extended colleges.
Continuation of GER 201E with same emphasis. Introduction to selected literary works, greater emphasis on writing than in previous semesters.

GER A205 Conversational Skills Maintenance II 1 CR
Contact Hours: 0 + 2
Registration Restrictions: Proficiency as after two semesters of college-level or two years of high school study in German.
Grade Mode: Pass/No Pass.
Stacked with: GER A105 and GER A305.
Special Fees.
Special Note: May be repeated once for credit.
A maintenance and skills enhancement course for intermediate students of German, designed primarily to help them retain and solidify what they learned in Elementary German. With the focus on communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

GER A209 German Grammar 4 CR
Contact Hours: 4 + 0
Prerequisites: GER A102.
Course Attributes: GER Humanities
A systematic introduction to German grammar, from the basic to the more complex features. Students will get abundant oral and written practice in the application of grammatical principles and in speaking and writing idiomatic German. Most class activities conducted in German.

GER A301 Advanced German I 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Four semesters of college German or four years of high school German.
Special Fees.
Continued emphasis on developing students' listening, speaking, reading, and writing proficiency and cultural competency, aimed at effective communication and accompanied by the study of more complex and less common grammatical and stylistic structures. Students will study and discuss the formative events, forces, and personalities in the development of German culture.

GER A302 Advanced German II 4 CR
Contact Hours: 4 + 0
Prerequisites: GER A301.
Continuation of GER 301. Increased emphasis on developing students' speaking and writing proficiency, reading and analytical skills, and cultural competency. Aimed at effective communication and the ability to function in a German cultural context. Continued study and discussion of formative events, forces, and personalities in the development of German culture.

GER A305 Conversational Skills Maintenance III 1 CR
Contact Hours: 0 + 2
Registration Restrictions: Proficiency as after four semesters of college-level or four years of high school study in German.
Stacked with: GER A105 and GER A205..
Special Fees.
Special Note: May be repeated once for credit.
A maintenance and skills enhancement course at the advanced level, designed primarily to help students of German to retain and to consolidate what they have learned. With the focus on oral communication, the course emphasizes speaking, listening comprehension and vocabulary building.

GER A310 Selected Topics in Advanced German 3 CR
Contact Hours: 3 + 0
Prerequisites: GER A202.
Special Note: May be repeated for credit with a different subtitle.
An advanced course for students interested in conversation practice, writing skills, and cultural information about the German-speaking world. There will be a different topic each time the course is offered, e.g., Austria, Germany today, Switzerland, contemporary women, conversation and composition, current events, film, and the media. Conducted in German.

GER A490 Selected Topics in German Literature 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Three years of college German or equivalent.
Special Note: Will be offered alternate semesters or years. May be repeated for credit if topic varies.
An advanced course for students interested in German literature with sufficient language proficiency to read and discuss assigned readings in German. Focus may be on periods, genres, individual authors, groups of authors, movements, works from different periods dealing with the same topics, or individual works. Conducted in German.

GEOGRAPHIC INFORMATION SYSTEMS - GIS

http://www.engr.uaa.alaska.edu
Offered through the School of Engineering
Beatrice McDonald Building (BMB), Room 210B, 786-6430

GIS A268 Elements of Geographic Information Systems (GIS) 4 CR
Contact Hours: 3 + 2
Registration Restrictions: Computer competency (see admission requirements).
Special Fees.
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 3 CR
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 3 CR
Contact Hours: 2 + 2
Prerequisites: GIS A268.
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 3 CR
Contact Hours: 2 + 2
Prerequisites: GEO A267 and GIS A268.
History of land information systems in North America. Land data systems. Data acquisition techniques. Methods, design, and applications for compiling data LIS. Accuracy assessment. Overview of methods for describing land and interpreting descriptions. Issues of public information.

GIS A370 Remote Sensing and GIS for Natural Resources 3 CR
Contact Hours: 2 + 2
Prerequisites: GIS A268.
Special Fees.
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.

GIS A458 Design and Management of Spatial Data 3 CR
Contact Hours: 2 + 2
Prerequisites: GIS A366.
Spatial database system philosophy and concepts including decision making criteria, design, planning, implementation, and management. Discussion of spatial data standards, legal issues, and national spatial data policies.

GIS A468 Integration of Geomatic Technologies 3 CR
Contact Hours: 2 + 2
Prerequisites: GIS A268 and GEO A167.
Special Fees.
Global positioning systems (GPS), remote sensing, digital photogrammetry, and image processing for data acquisition and compilation of digital databases for GISes, mapping, and other special studies.

GIS A470 GIS for Facility Management 3 CR
Contact Hours: 2 + 2
Prerequisites: GIS A366.
Load and corridor analyses, dispatching, inventory, and facility maintenance. System design for industry. Data collection techniques and integration. GIS facility management applications including utilities (water, waste water, electricity, gas, telephone), airports, military installations, transportation systems, property and building systems.

GIS A495 Internship in GIS 3 CR
Contact Hours: 0 + 15
Prerequisites: GIS A268 and GIS A366.
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 work tasks to be conducted for employer include: data entry, data coding and cleaning, importing and exporting data, creation of annotation, georeferencing, rubbersheeting, spatial analyses, documentation of metadata, and map compilation.

GUIDANCE - GUID

Offered through the Advising and Counseling Center
Business Education Building (BEB), Room 115, 786-4500

GUID A101 Introduction to Peer Advising 3 CR
Contact Hours: 3 + 0
Introduction to the peer advising model with emphasis on the information dissemination and paraprofessional counseling aspects. This course is the training class for the peer advising program.

GUID A104 Student Association Leadership I 1-3 CR
Contact Hours: 2 + 2
Survey of student leadership topics including techniques of organizational planning, management, program planning, budgeting, group dynamics, communication and leadership theories and techniques. Application of techniques through program/service projects utilizing the student association as a laboratory.

GUID A125 Introduction to Student Services 1 CR
Contact Hours: 1 + 0
Offered only at Kachemak Bay Campus.
Covers primary skills needed to assist prospective, new and continuing adult students in having a successful college experience. The focus is on information about advising, financial aid, career planning, admissions and registration.

GUID A150 Survival Skills for College Students 3 CR
Contact Hours: 3 + 0
Special Fees.
Designed to increase student skills needed to reach educational objectives. Includes memory techniques, time management, library skills, lecture notes, goal setting and test taking. Techniques, skills, hints, aids, resources, ideas, methods and suggestions for student survival in college.

GUID A150A Survival Skills/College 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Participation in a variety of activities including, reading, notetaking and follow-up, large and small group discussions and activities, short written assignments and/or quizzes.

GUID A201 Peer Advising Practicum 2 CR
Contact Hours: 1 + 2
Prerequisites: GUID A101.
Registration Restrictions: Counselor recommendation.
Designed to provide advanced helping skills for student paraprofessionals involved in the peer advisor program. Participation in training, experiential learning activities and personal growth experiences enhances functioning as student helpers.

GUID A204 Student Association Leadership II 1-3 CR
Contact Hours: 2 + 2
Offered only at Kenai Peninsula College.
In-depth study of student leadership including organizational planning, management, program planning, budgeting, group dynamics, communication, and leadership theories and techniques as applied to the student association. Emphasis on identification of students' leadership qualities and development of strategies to enhance leadership skills. Application of skills utilizing the student association as a laboratory.

HISTORY - HIST

Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 330, 786-1535

HIST A101 Western Civilization I 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities and GER Social Sciences
A survey of the origins of Western Civilization in the ancient Near East and subsequent development through 1650. The major political, social, economic, and intellectual developments will be emphasized.

HIST A102 Western Civilization II 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities and GER Social Sciences
A survey of the developments in Western Civilization from 1650 to the present. The major social, political, economic, and intellectual characteristics of Western Society will be emphasized.

HIST A110 Seward History: a Local History Project 3 CR
Contact Hours: 0 + 0
Special Note: Does not count for required history BA degree program.
Students will interview residents, research old newspapers and documents and read relevant books as they explore topics of local history. This is not a lecture/note taking course since students will be actively creating the course content as we go along.

HIST A115 Alaska: Land and Its People 3 CR
Contact Hours: 3 + 0
A survey of Alaska from earliest days to present: its peoples, problems, and prospects.

HIST A121 East Asian Civilization I 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities and GER Social Sciences
The Great Tradition: origin and development of civilizations of China and Japan, from beginnings to 1600, with emphasis on traditional, social, political, and cultural institutions.

HIST A122 East Asian Civilization II 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities and GER Social Sciences
The Modern Transformation: East Asia from 1600 to present, with emphasis on patterns of social cohesion, transition, and revolutionary change.

HIST A131 History of United States I 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities and GER Social Sciences
A survey of the discovery and exploration, colonial period, American Revolution, the Constitution, federal period, Jeffersonian-Jacksonian Democracy, the West, Sectionalism, Slavery and Abolitionism, American Culture, and Civil War.

HIST A132 History of United States II 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities and GER Social Sciences
A survey of the Reconstruction of the South, the far West, growth of industry and labor, "Gilded Age," Imperialism, Progressivism, World War I, "Roaring Twenties," Great Depression, Isolationism and World War II, Cold War, modern American society, Vietnam, and after.

HIST A147 Alaskan Workers Roundtable 1 CR
Contact Hours: 1 + 0
Provides exposure to current issues facing labor and key persons involved. Covers Alaska local hire controversy, unions and Alaska economy, and health and safety workplaces. Includes what Alaska Department of Labor does for workers, Alaska Public Employees Relations Act, future employment in Alaska, and other current issues.

HIST A225 Ancient History 3 CR
Contact Hours: 3 + 0
Registration Restrictions: HIST A101 recommended.
A survey of the origins and development of western civilization from beginnings in ancient Near East through end of the Roman Empire. Emphasis on interrelationships of political, social, economic, cultural, and intellectual movements in various cultures.

HIST A226 Medieval History 3 CR
Contact Hours: 3 + 0
Registration Restrictions: HIST A101 recommended.
A survey of the evolution of Western Civilization from end of the Roman Empire to beginnings of Renaissance. Emphasis on interrelationships of political, social, economic, cultural, and intellectual movements.

HIST A230 Modern China 3 CR
Contact Hours: 3 + 0
A survey of China from 1800 to present. Rebellion, reform, revolution, and resistance to change will be emphasized.

HIST A231 Modern Japan 3 CR
Contact Hours: 3 + 0
A survey of Japan from 1600 to present. Changes within tradition, rise to power, and modern dilemmas will be emphasized.

HIST A235 History of American Indians 3 CR
Contact Hours: 3 + 0
Surveys histories of American Indian groups, prehistoric to present. Focuses on social, economic, and political effect of westward settlement. Emphasis on major tribes and leaders from Atlantic to Pacific.

HIST A237 American Civil War 3 CR
Contact Hours: 3 + 0
Study of North-South differences causing American Civil War, war itself in considerable detail, and legacy of that war for today.

HIST A238 Black History I 3 CR
Contact Hours: 3 + 0
Afro-American history from colonial times to 1865. Social, economic, psychological, religious, and racial aspects of Africa. Slave trade, slavery, slave trading nations, and Civil War. Impact of various racial theories and practices on black/white relations.

HIST A239 Black History II 3 CR
Contact Hours: 3 + 0
Afro-American history from 1865 to present. Impact of technology, changing social and economic conditions, and international scene on Black Americans. Consideration of leaders, organizations, concepts and issues that affect blacks and society at large.

HIST A243 World War II and the Aleutians 3 CR
Contact Hours: 3 + 0
An analysis of the portion of World War II during which American territory was invaded, requiring land, sea, and air defense spanning a thousand mile battlefield. Special attention to Kodiak and its involvement in the war effort.

HIST A244 Studies in Film History 3 CR
Contact Hours: 3 + 0
Stacked with: HIST A444.
Special Fees.
Special Note: May be repeated once for credit with a change of subtitle.
Selected topics in motion picture history. Ranges from genre studies (musicals, comedies, science fiction) to special areas of film history (animation, special effects, major stars and studios, significant directors). Subtitle varies.

HIST A245 The Movies 3 CR
Contact Hours: 3 + 0
Examines the development of American motion pictures from the golden age of silent cinema to latest releases of today. Emphasis on motion picture genres (musicals, westerns, science fiction), studio system, and major stars of studio era.

HIST A247 Violence in America 3 CR
Contact Hours: 3 + 0
Focuses on different aspects of American violence. Urban violence, agrarian uprisings, ethnic and racial conflicts, industrial-labor disputes, and domestic rebellions associated with various American wars.

HIST A248 Contemporary American Labor History: The Last Half-Century 3 CR
Contact Hours: 3 + 0
Focus on history and development of labor since 1930 Great Depression. Emphasis on how labor has restructured, reorganized, reoriented, and redefined itself to face changing American/global economies and attitudes toward organized and unorganized workforces. Future of work as result of technologies, domestic and foreign policies, and shifts in workforces.

HIST A257A A Gold Rush Era: Alaska and the Yukon 3 CR
Contact Hours: 3 + 0
Western United States, Canada, and Alaska will be studied in detail to determine their significance as a part of the overall evolution of the Yukon-Alaska gold rush during the period of 1846-1920. California, Oregon, Washington, and British Columbia stampede activities will be considered as an introduction leading to culminating the gold rush era of the Yukon and Alaska.

HIST A261 Russian History 3 CR
Contact Hours: 3 + 0
Origins of early (Kievan) Russia, Mongol Era, and rise of Moscow. Modern Russia to 20th century.

HIST A265 Mysteries of the Past 3 CR
Contact Hours: 3 + 0
Historical survey of legends, myths, and superstitions of Western culture from period of early Mediterranean civilizations to present.

HIST A271 The Vietnam Project 3 CR
Contact Hours: 3 + 0
Explores years of conflict in Vietnam. Provides historical perspective with emphasis on period of United States participation. Deals with internal and international political participation. Deals with internal and international political contexts, and basic themes in Vietnamese, French, and United States history and culture that determined military and political outcomes.

HIST A280 Seminar in Contemporary Issues 3 CR
Contact Hours: 3 + 0
Crosslisted with: PSY A280 and SOC A280.
Special Note: Subtitle varies; may be repeated for credit with a different subtitle. Crosslisting varies each semester depending on topic.
Analyzes contemporary issues from a variety of social science perspectives.

HIST A310 Europe: 1500-1789 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A102.
The Reformation and the War of Religion, the Thirty Years War, the rise of the European Nation-States, the Scientific Revolution and The Enlightenment.

HIST A312 Europe: 1789-1870 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A102.
French Revolution and Napoleonic Empire, the Concert of Europe, German and Italian Unification, Romanticism and the New Enlightenment, the Industrial Revolution.

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 the 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 and GER Social Sciences
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 A343 History of American Alaska 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior standing.
Special Note: Not a substitute for HIST A341. Will substitute for HIST A341 only in combination with HIST A342.
The history of American expansion to and development of Alaska, including political, economic, social and cross-cultural aspects.

HIST A354 Eyes On the Prize: America's Civil Rights Movement 3 CR
Contact Hours: 3 + 0
Telecourse based on the much acclaimed PBS/blackside history of the modern Civil Rights Movement. Eyes I ("America's civil rights years") consists of six one-hour programs from the landmark school desegregation case, Brown v. Board of Education, to the student sit-ins and voter registration drives at Selma and elsewhere. Eyes II ("America at the racial crossroads") consists of eight one-hour programs from the rioting in Watts and Detroit to the new racial politics of the 1980's. Covers the years 1954-1985.

HIST 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 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; Stalinization (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.

HIST A434 Early National Period, 1800-1850 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A131 and HIST A132.
Jeffersonian policies and ideology; struggle with England and the War of 1812; transcontinental treaties and the Monroe Doctrine; The Age of Jackson and Westward Expansion; the Era of Reform; and the Mexican War.

HIST A440 The American West Since 1850 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A131 and HIST A132.
Study of major themes in Western American history, including economic, social and ideological change, and the historiography of the American West.

HIST A444 Advanced Studies in Film History 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior standing.
Stacked with: HIST A244.
Special Fees.
Special Note: May be repeated once for credit with a change of subtitle. Only 3 credits of HIST A444 may be applied to either a major or minor in history.
Advanced studies in selected topics in motion picture history. Topics range from genre studies (musicals, comedies, science fiction) to special areas of film history (animation, special effects, major stars and studios, significant directors). Subtitle varies.

HIST A451 Populists and Progressives: America, 1877-1917 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A132.
The development of the reform state, from the rise of the People's Party to the progressive era presidencies of Roosevelt, Taft, and Wilson.

HIST A452 America in War and Peace, 1917-1945 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A132.
An examination of Americans responding to the crises of war and depression.

HIST A453 America Since 1945 3 CR
Contact Hours: 3 + 0
Stacked with: HIST A653.
Topics will include the growth of presidential power; McCarthyism, the FBI, and civil liberties; the rise of the national security state; civil rights and antiwar movements of the 1960's and Watergate.

HIST A455 America and the World in the 20th Century 3 CR
Contact Hours: 3 + 0
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 Senior Seminar 3 CR
Contact Hours: 3 + 0
A course in research methodology intended for history majors and others, normally taken in the senior year of study. Students will prepare a major research paper, utilizing primary research material under the direction of department faculty.

HIST A478 Studies in Early American History 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A131.
Special Note: May be repeated for credit with a different subtitle.
An examination of selected fundamental topics in early American history. Areas will be studied as student need and faculty expertise indicate. Subtitle varies.

HIST A479 Studies in Modern American History 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A131 and HIST A132.
Special Note: May be repeated for credit with a different subtitle.
This course is intended to provide an intensive examination of selected fundamental topics in American history. Specific areas will be treated as student need and faculty expertise indicate. Subtitle varies.

HIST A486 Studies in Modern Europe 3 CR
Contact Hours: 3 + 0
Prerequisites: HIST A102.
Special Note: May be repeated for credit with a change of subtitle.
This course is a study of selected important topics in modern European history. These include World War I, European Fascism and National Socialism, European Marxism, and World War II. The course will be offered as student need and faculty expertise indicate. Subtitle varies.

HIST A641 Studies in Alaska History 3 CR
Contact Hours: 3 + 0
Stacked with: HIST A341.
Special Note: Not available for credit to students who have taken HIST A341.
Advanced study of various topics in Alaska history, including Russian exploration, occupation and development, social conditions in the Russian period, the U.S. Purchase, American development and economic relationships, political development, Native issues, environmental history, and changing perceptions.

HIST A653 The United States, 1945 to the Present 3 CR
Contact Hours: 3 + 0
Stacked with: HIST A453.
Special Note: Not available for credit to students who have taken HIST A453.
Advanced study of selected topics in the political and cultural history of America since the Second World War.

HEALTH - HLTH

Offered through the Community & Technical College
Allied Health Science Building (AHS), Room 160, (907) 786-1241

HLTH A165 Wellness I 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Emphasizes the role of self-responsibility in shifting to the process of wellness and the components of nutritional awareness, physical fitness, stress awareness/management, and environmental sensitivity.

HONORS - HNRS

Offered through the Office of Academic Affairs
Administration (ADM), Room 214, 786-1426

HNRS A110 Community and Cultural Awareness 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Enrollment limited to students admitted to UAA Honors Program, and also open to students in a UAA departmental honors program who have permission to enroll from the UAA Honors Program Director.
Corequisite: HNRS A192.
Grade Mode: Pass/No Pass.
Special Note: The course extends over both fall and spring semesters. A passing grade is dependent 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 A192 Honors Seminar: Enduring Books 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Enrollment limited to students admitted to UAA Honors Program, and also open to students in a UAA departmental honors program who have permission to enroll from the UAA Honors Program Director.
Corequisite: HNRS A110.
An honors seminar focusing on the directed reading of a single book of enduring significance.

HNRS A210 Community Service 1 CR
Contact Hours: 1 + 0
Prerequisites: HNRS A110 and HNRS A192.
Registration Restrictions: Enrollment limited to students admitted to UAA Honors Program, and also open to students in a UAA departmental honors program who have permission to enroll from the UAA Honors Program Director.
Corequisite: HNRS A292.
Grade Mode: Pass/No Pass.
Special Note: The course extends over both fall and spring semesters. A passing grade is dependent on successful completion of the year-long course.
Guided volunteer service with a cultural organization, social service organization, or government agency.

HNRS A292 Honors Seminar: Modern American Culture 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Enrollment limited to students admitted to UAA Honors Program, and also open to students in a UAA departmental honors program who have permission to enroll from the UAA Honors Program Director.
An honors seminar examining the individual within American culture from a social perspective. Stress on social roles and social behavior and thinking.

HNRS A392 Honors Thesis Seminar 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Enrollment limited to students admitted to UAA Honors Program, and also open to students in a UAA departmental honors program who have permission to enroll from the UAA Honors Program Director. Completion of all lower-division 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 Senior Honors Seminar 6 CR
Contact Hours: 6 + 0
Registration Restrictions: Enrollment limited to students admitted to UAA Honors Program, and also open to students in a UAA departmental honors program who have permission to enroll from the UAA Honors Program Director. Completion of all lower-division and junior-level honors requirements.
Special Fees.
Special Note: The course extends over both fall and spring semesters. A passing grade is dependent on successful completion of the year-long course.
A two-semester long interdisciplinary Honors seminar investigating a central theme extending beyond the confines typically found within the individual disciplines and majors. Students will engage in an intense intellectual experience that develops an integrative perspective leading to an enhanced understanding of the complex world of the future and of their role in it.

HNRS A499 Honors Thesis 3 CR
Contact Hours: 0 + 6
Registration Restrictions: Senior Standing. Completion of lower-division and junior-level honors requirements. Permission from the UAA Honors Program Director and approval by a faculty member acting as thesis advisor.
Special Note: Enrollment limited to students admitted to UAA Honors Program.
Independent research under faculty supervision, including formulation of research topic, research and analysis, and defense.

HEALTH SCIENCES - HS

Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 105, 786-4544

HS A120 Drugs and Athletic Performance 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Introductory exploration of the use and abuse of drugs in the U.S. With particular emphasis on drug use and abuse in athletics and by athletes. Includes an examination of specific drug categories that are used and abused by athletes and explores the potential short- and long-term consequences of such use in athletic and non-athletic endeavors. Includes recognition of signs and symptoms of drug abuse in self and others and guidelines for intervention when such signs are present.

HS A220 Core Concepts in the Health Sciences 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences
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 A250 Health Promotion 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A150.
An emphasis on information essential to making decisions in the area of health critical to the student's well-being. Fundamental principles of good health are presented with emphasis upon personal choices in matters affecting one's life, such as diet, physical activity, rest, sexuality, abusable substances, safety and stress.

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 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 A483 Policy and Prevention in Health 3 CR
Contact Hours: 3 + 0
Prerequisites: HS A220.

Analysis of health policies affecting the definition of health problems, provision of health services, and the development of prevention alternatives to treatment. Emphasizes community approaches to health policy and interventions over individual strategies for health improvement.

HS A484 Drug Actions of Psychoactive Drugs 3 CR
Contact Hours: 3 + 0
Prerequisites: HS A350 or PSY A350.

An advanced level course designed to assist substance abuse and related health care professionals to understand the origin, nature, chemistry, effects, and uses of psychoactive drugs on human behavior. Content will focus on the classification, administration, distribution, and the biochemical and physical effects of psychoactive chemicals, with an emphasis on the pharmacology of medications used to treat substance abuse-related disorders.

HS A625 Biostatistics for Health Professionals 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Undergraduate statistics course with grade of C or better and graduate standing.
Crosslisted with: NS A625.

Principles of statistical reasoning and quantitative skills for analyzing health-related data. Topics include the binomial, Poisson, and normal distributions, the treatment of rates, measures of location and dispersion, and testing of statistical hypotheses. Both descriptive and inferential statistics are illustrated in morality and morbidity problem sets requiring manual or computer assisted calculations. The comparison of methodological techniques and the choice of appropriate statistical methods to answer clinical practice and research questions are stressed. This course is designed to enhance rather than substitute for statistical knowledge gained at the undergraduate level.

HS A625L Biostatistics for Health Professionals Lab 1 CR
Contact Hours: 0 + 3
Prerequisites: (HS A625 or concurrent enrollment).
Registration Restrictions: Graduate Standing.
Grade Mode: Pass/No Pass.
Crosslisted with: NS A625L.
Special Fees.

Elective computer laboratory to teach statistical computer packages to use in performing statistical data analysis.

HS A626 Principles of Epidemiology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

Principles and methods of epidemiologic research. Major topics include etiological factors of disease and injury, the distribution of health problems within populations, levels of prevention, and the concept of risk. The design of retrospective, cross-sectional, and prospective studies are examined, to illustrate odds ratio, relative risk, life tables and person-years. Other topics include the adjustment of rates.

HS A627 Intermediate Epidemiology and Biostatistics 2 CR
Contact Hours: 2 + 0
Prerequisites: HS A625 or NS A625 and [HS A626 or NS A626].

A joint continuation of HS/NS 625 and HS/NS 626, with more emphasis on analytical skills. Lectures and a series of problem sets illustrate the quantification of risk, including relative risk, odds ratio, standardized mortality ratio, life tables, and person-years. Other topics include regression and the adjustment of mortality and morbidity 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.

HS A630B Epidemiology 2 CR
Contact Hours: 0 + 6
Registration Restrictions: Written permission from Biomedical Program Director.

Introduction to principles of epidemiology and biostatistics, emphasizing application to clinical medicine. Three broad topics: 1) health and disease in community; 2) interpretation of research results; and 3) clinical epidemiology.

HUMANITIES - HUM

Offered through the College of Arts and Sciences
College of Arts and Sciences Building (CAS), Room 335, (907) 786-1731

HUM A205 Fridays Ten 'Til Two 1 CR
Contact Hours: 1 + 0
Stacked with: EAH A049.
Special Fees.
Special Note: See schedule for current title offering.

Interdisciplinary program of lectures and discussions led by faculty and community leaders.

HUM A211 Introduction to Humanities I 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Humanities

Integrated exploration of fundamental principles of literature, music, philosophy, and visual arts.

HUM A212 Introduction to Humanities II 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Humanities

A study of a given historical period or periods with reference to art, literature, philosophy, and music.

HUM A220 Film as/and Literature 3 CR
Contact Hours: 3 + 0

An exploration of what makes good literature and good film, and the relationship between the two genres. Focuses on how literary and cinematic expression differs, and how—or if—the former translates into the latter. Students learn to read novels, plays, and short stories critically and to watch films critically. Two critical essays required; readings are numerous.

HUM A221 Storytelling 1-3 CR
Contact Hours: 0 + 0
Offered only at Kenai Peninsula College.

Exploration of the techniques, modes and power of storytelling. Includes the choice, preparation, and performance of stories for private and public occasions.

HUM A230 Introduction to Folklore 3 CR
Contact Hours: 3 + 0

Introduces history, central themes, genres and methodology of contemporary folklore studies emphasizing folklore as a discipline. Focuses on the interplay of community, creativity, and symbolic communication in human society by looking at tradition, landscape, ethnicity, material culture, vernacular architecture, oral history, belief, song and performance.

HUM A250 Myths and Contemporary Culture 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 and COMM A111.
Course Attributes: GER Humanities

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.
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
Analyzes social inequality and the American social welfare system. Traces historical development of government response to social inequality. Explores historical and persisting dilemmas—ethical, political, social and economic—explicit and implicit in social welfare provisioning. Assists in understanding of social welfare problems and their solutions.

HUMS A121 Advocating for Victims of Domestic Violence Or Sexual Assault 2 CR
Contact Hours: 2 + 0
Grade Mode: Pass/No Pass.
Crosslisted with: SWK A121.
Offered only at Matanuska-Susitna College.
Focuses on developing the skills and knowledge needed to be an effective advocate for victims of domestic violence and sexual assault. Provides historical perspective, identifies physical, sexual and emotional abuse that defines battering. Explains cycle of violence, power and control issues and why women stay in abusive relationships. Identifies five stages of living without violence (denial, self-blame, help seeking, ambivalence and living violence free lives). Discusses ways of helping victims become survivors.

HUMS A122 Substance Abuse as a Contemporary Problem 3 CR
Contact Hours: 3 + 0
Special Fees.
Examines cultural values and norms, and social attitudes toward alcohol and drug abuse. Impact of abuse on personal functioning and interpersonal relations.

HUMS A123 Public Education and Prevention in Substance Abuse 3 CR
Contact Hours: 3 + 0
Use of community organization knowledge and skills for development of educational and preventive programs in substance abuse.

HUMS A131 Introduction to the Family Teaching Model 3 CR
Contact Hours: 3 + 0
Offered only at Kodiak College.
Theory, techniques, and practices of the family teaching model for social skills training in family and group settings.

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
Crosslisted with: PSY A223.
Special Fees.
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 A250 Cultural Issues in Human Services 1 CR
Contact Hours: 1 + 0
Special Fees.
Introduction to intercultural communication through examination of communication as a unit of culture. Thought, communication, and behavior patterns of various world views. Cultural orientation and interaction styles, and techniques for effective contact with individuals with differing cultural characteristics.

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.
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.
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: PSY A223 or HUMS A223.
Crosslisted with: PSY A324.
Special Fees.
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.
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.
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 a 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.
Overview of ethics in human service practice. Clients' rights and confidentiality, worker responsibility for ethical behavior in the areas of confidentiality, multicultural counseling, professional responsibility, and practitioner competency.

HUMS A414 Rural Treatment Strategies for Human Service Professionals 3 CR
Contact Hours: 3 + 0
Prerequisites: HUMS A101.
Special Fees.
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.
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.
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.
Advanced facilitation skills appropriate for group work to include goal setting, reciprocation, task identification, and personal growth. Presents a theoretical case in both group dynamics and group leadership. Contemporary ethical and managerial issues are included.

HUMS A461 Crisis Intervention 3 CR
Contact Hours: 3 + 0
Prerequisites: HUMS A101 and HUMS A223 and HUMS A324.
Special Fees.
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
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 3 CR
Contact Hours: 3 + 0
Prerequisites: HUMS A462.
Special Fees.
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 308, 786-1361

ID A141 Interior Design 3 CR
Contact Hours: 3 + 0
Beginning interior design survey course. Design theory as related to planning and decorating homes. Particular emphasis on developing individual styles, color schemes, floor, wall and window coverings, basic lighting, and interior furnishings.

ID A146 Interior Houseplanning Seminar 1 CR
Contact Hours: 1 + 0
Study of organization of interior space to suit occupant activities and interests. Enables students to understand manipulation of limited amounts of interior space, thereby creating multiple options for acceptable living areas.

ID A148 Interior Design Laboratory I 3 CR
Contact Hours: 2 + 3
Prerequisites: AET A101.
Enables students to continue applying theories by solving specified problems.

ID A150 Interior Finishes 3 CR
Contact Hours: 2 + 3
Prerequisites: ID A141.
Registration Restrictions: Passing score on MATH A055 placement test.
Enables students to study specific background interior modules in depth. Wall coverings, window treatments, ceilings, and floor coverings.

ID A158 Interior Design Laboratory II 3 CR
Contact Hours: 2 + 3
Prerequisites: ID A148 and COMM A111.
Applying design theories to solving specific problems. Stresses professional presentations.

INTERDISCIPLINARY STUDIES - INDS

Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 338, 786-1387

INDS A101H Honors Introduction to Environmental Studies 3 CR
Contact Hours: 2 + 3
Prerequisites: ENGL A111.
Registration Restrictions: Admission by the honors committee; completion of the university GER in quantitative skills at minimum Math A107 or its equivalent (2 years high school algebra with grades of B or higher).
Multidisciplinary approach to environmental studies integrating current contributions from the biological, physical and social sciences. Demonstrates the interdependence of biological, physical and human factors in ecosystems. Emphasizes systems models, historical perspectives, energy use, resource limitations, population growth, human environmental impact, and future consequences of the above. Stresses discussion and interaction between faculty and students. Papers and special student projects environmental problem solving, including quantitative analysis, computer modeling, written analysis, field examination, and community involvement.

INTERNATIONAL STUDIES - INTL

Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 359, 786-4897

INTL A301 Canada: Introductory Survey 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences
Special Note: Satisfies university-wide general education degree requirements.
Multidisciplinary introduction to Canadian society, including Canadian geography, anthropology, history, sociology, politics, law, economics and culture. The course is team-taught by faculty from a number of disciplines.

INTL A302 Canada: Contemporary Issues 3 CR
Contact Hours: 3 + 0
Prerequisites: INTL A301.
Special Note: May be repeated for credit with a change of subtitle.
Contemporary Canadian issues and topics including health and environment, northern development, U.S.-Canada relations, Canadian international relations, the multilingual society, education, arts and humanities, and northern engineering.

INTL A303 Canada: Selected Topics 3 CR
Contact Hours: 3 + 0
Stacked with: INTL A603.
Special Note: May be repeated for credit with a change of subtitle.
Each offering focuses on a different aspect of Canadian life. Topics include anthropology and Native peoples of Canada, history, sociology, politics, economics and resources, film, theatre, literature, education, and the health system.

INTL A304 Canada: Field Study Tour 1 CR
Contact Hours: 0 + 3
Special Note: May be repeated for credit with change of subtitle.
A study tour to Canada offering students the opportunity to focus on aspects of the geography, history, anthropology, economics, sociology, and politics of the particular location/area. Particular focus will vary with location but attention is given to contemporary public issues and institutions such as education, health, economic development.

INTL A374 History of Canada to 1867 3 CR
Contact Hours: 3 + 0
Crosslisted with: HIST A374.
A survey of major developments in the history of Canada to 1867.

INTL A375 History of Canada Since 1867 3 CR
Contact Hours: 3 + 0
Crosslisted with: HIST A375.
A survey of major developments in the history of Canada since 1867.

INTL A603 Canada: Selected Topics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Stacked with: INTL A303.
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.

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
A survey of the media of mass communication and their functions in modern society: newspapers, magazines, books, movies, radio, television, and the advertising and public relations industries.

JPC A105 Writing for Publications 3 CR
Contact Hours: 3 + 0
Introduction to journalistic writing for publications such as campus newspapers. Writing and editing features, news stories, and editorials. Additional topics may include advertising, copywriting and taking photos for publications. For non JPC majors and minors.

JPC A111 Understanding Aural and Visual Communication 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
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
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].
Creating effective photos and photo essays for newspapers, magazines, and television. Learning to recognize, develop and create photo stories; how to coordinate words and photos and to lay them out on a page. Photo editing. How to present material to potential markets.

JPC A301 Advanced Newswriting 3 CR
Contact Hours: 2 + 3
Prerequisites: JPC A201.
Advanced news gathering and writing techniques covering a wide scope of subjects. Emphasis is on reporting in the community under conditions approximating those of a newsroom.

JPC A305 Journalistic Interviewing 3 CR
Contact Hours: 3 + 0
Prerequisites: JPC A101.
The art and craft of interviewing, with emphasis on journalistic interview. Students study and practice various styles of interviews with individuals and groups and learn specific human-interaction techniques necessary for conducting quality interviews that elicit useful information for journalistic purposes.

JPC A309 Radio News 3 CR
Contact Hours: 3 + 0
Prerequisites: JPC A101 and JPC A111 and JPC A201.
Developing news and public affairs programming for commercial and public radio formats. Emphasis will be on journalistic reporting and understanding the special qualities and requirements of the medium. Produce professional-quality stories for an aural audience.

JPC A310 Audio Production 3 CR
Contact Hours: 2 + 3
Prerequisites: JPC A111.
Techniques of sound production. Survey of the history and formats of radio. Audio production techniques are introduced for radio, television, film, and sound/slide presentations. Students produce documentary, dramatic or commercial studio projects.

JPC A311 Magazine Writing 3 CR
Contact Hours: 3 + 0
Prerequisites: JPC A301.
Article writing for publication in magazines, preparation of query letters, market analysis, and manuscript writing. Includes discussion of ethical and legal issues of special concern in magazine writing.

JPC A316 Producing for Film and Television 3 CR
Contact Hours: 2 + 3
Prerequisites: JPC A111.
Principles and techniques of video and film production; concepts, script, production planning, camera, audio, lighting, and editing. Teaches basic principles common to film and television production through the use of portable color video camera and video tape editing systems.

JPC A320 Principles of Public Relations 3 CR
Contact Hours: 3 + 0
Prerequisites: JPC A101.
Function of public relations and its role in society. Principles, history, and practice of public relations in business and industry, public or governmental institutions, social welfare organizations. Process of influencing and public opinion. Responsibilities of the public relations practitioner to his or her 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, docu-dramatic, educational and documentary forms. Concentration on the development of basic visualization skills for writers and techniques in proposal, concept, treatment and scriptwriting.

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 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 purposive communication as it is applied in the public relations profession with emphasis on research, critical application of ethical principles, adaptation to audiences and reinforcement of individual writing styles.

JPC A364 Advertising Strategy 3 CR
Contact Hours: 3 + 0
Prerequisites: JPC A201 and JPC A326.
Principles of advertising management including planning, scheduling and client relations. Emphasis on techniques for creative strategy and media strategy.

JPC A365 Advertising Creativity 3 CR
Contact Hours: 3 + 0
Prerequisites: JPC A201 and JPC A326.
Principles of the creative process used in advertising. Uses theory as basis for development and application of creative skills at the professional level in the creation of individual advertisements and campaigns.

JPC A367 History of Photography 3 CR
Contact Hours: 3 + 0
Crosslisted with: ART A367.
Course Attributes: GER Fine Arts and GER Humanities
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 Specialized Writing 3 CR
Contact Hours: 3 + 0
Prerequisites: JPC A301.
Special Note: May be repeated for credit.
For students interested in writing in-depth background and feature articles for publication in newspapers and/or magazines. Information gathering from a variety of selected fields. Includes discussion of story ideas, writing techniques and marketing procedures for free-lance work.

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 A423 Advertising and Public Relations Photography 3 CR
Contact Hours: 0 + 6
Prerequisites: JPC A324 or ART A324.
Crosslisted with: ART A423.
Special Note: May be repeated for credit.
Emphasizes lighting for form, texture, and separation as advertising. Industrial and public relations photography is explored.

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 a 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
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
Offered only at extended colleges.
Introduction, practice, and application of the basic spoken Japanese pronunciation, intonation, grammar and oral composition.

JPN A102 Elementary Japanese II 4 CR
Contact Hours: 4 + 0
Prerequisites: JPN A101.
Course Attributes: GER Humanities
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
Offered only at extended colleges.
Continued drill in speaking, listening, reading and writing in different situations. Emphasis on developing practical skills in oral and written "Hiragana" communication.

JPN A201 Intermediate Japanese I 4 CR
Contact Hours: 4 + 0
Prerequisites: JPN A102.
Stacked with: JPN A202.
Course Attributes: GER Humanities
Special Fees.
Completion of basic grammar and continued practice in speaking, listening, reading and writing. In addition to the "Hiragana" reading and writing, "Katakana" and "Kanji" are to be studied. Besides the core textbooks, various tapes, videos and storybooks are used.

JPN A201E Intermediate Japanese I 3 CR
Contact Hours: 3 + 0
Prerequisites: JPN A102E.
Course Attributes: GER Humanities
Offered only at extended colleges.
Completion of basic grammar and continued practice in speaking, listening, reading, and writing. In addition to the "Hiragana" reading and writing, "Katakana" and "Kanji" are to be studied. Besides the core textbooks, various tapes, videos and storybooks are used.

JPN A202 Intermediate Japanese II 4 CR
Contact Hours: 4 + 0
Prerequisites: JPN A201.
Stacked with: JPN A201.
Course Attributes: GER Humanities
By being exposed to various Japanese family lifestyles, customs, traditions, arts and society, students will expand their communicative skills in speaking and writing. Continued efforts to develop oral and written fluency in informal and formal situations.

JPN A202E Intermediate Japanese II 3 CR
Contact Hours: 3 + 0
Prerequisites: JPN A201E.
Course Attributes: GER Humanities
Offered only at extended colleges.
By being exposed to various Japanese family lifestyles, customs, traditions, arts and society through reading books and audio visual media, students will expand their communicative skills in speaking and writing. Continued efforts to develop oral and written fluency in informal and formal situations.

JPN A301 Advanced Japanese I 4 CR
Contact Hours: 4 + 0
Prerequisites: JPN A202.
Stacked with: JPN A302.
Special Fees.
Continuing efforts to achieve a higher level of fluency with more accuracy in expressing oneself and exchanging ideas. More "Kanji" compound words, idioms, and sentence patterns are to be introduced. Conducted mainly in Japanese.

JPN A302 Advanced Japanese II 4 CR
Contact Hours: 4 + 0
Prerequisites: JPN A301.
Stacked with: JPN A301.
Reading of contemporary texts of literature, business, social topics and others as a basis for composition and conversation. Approximately 250 more "Kanji" characters must be mastered. Conducted mainly in Japanese.

JPN A310 Selected Topics in Advanced Japanese 3 CR
Contact Hours: 3 + 0
Prerequisites: JPN A202.
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.

JUSTICE - JUST

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

JUST A110 Introduction to Justice 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences
Special Note: This course is a prerequisite to most Justice courses.
Survey of philosophies, functions and methods of social control with emphasis on role of law and those involved in its administration—police, courts, and correction organizations. Includes study of history, organization, processes, and problems related to law and justice agencies in a heterogeneous, democratic society.

JUST A203 Juvenile Delinquency 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Crosslisted with: SOC A203.
A conceptual approach to deviant and delinquent behavior, contributing social problems, adolescence as a subculture with emphasis on the juvenile code and treatment procedure.

JUST A210 Principles of Corrections 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110 or JUST A251.
An introduction to the basic concepts of probation and parole; the use of authority in corrective services; institutional methods; a study of popular and professional concepts in corrections.

JUST A221 Justice Organization and Management 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110.
Survey of organization and management of police, court, correctional and legal operations, agency roles, goals, structural arrangements and administrative practices; applicability of theory and research; techniques and instruments of organization and management; and principles of change.

JUST A225 Labor Law 3 CR
Contact Hours: 3 + 0
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.

JUST A227 Probate 3 CR
Contact Hours: 3 + 0
Prerequisites: PARL A101 or JUST A110.
Uniform Probate Code as adopted in Alaska. Substantive rights of spouses and families, probate procedures, and formal testacy. Personal, representative, and supervised administration, distribution and non-profit transfers.

JUST A230 Domestic Relations 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110 or PARL A101.
Laws relating to marriage and divorce, support and property rights. Adoptions, guardianship, abortion, and juvenile rights in family settings.

JUST A233 Minorities and Justice Careers 3 CR
Contact Hours: 3 + 0
An explication of the justice system designed particularly for minority students, especially Alaskan Natives, and for others seeking a practically-oriented introductory perspective to the justice field. Emphasis is on the functions of professionals within the justice system. Includes an introduction to law and a legal writing and research skills development seminar. Requires participation in a practicum.

JUST A241 Business Law I 3 CR
Contact Hours: 3 + 0
Crosslisted with: BA A241.
Introduces legal aspects of business activities. Emphasizes basic principles, institutions, and administration of law in contracts, employment, torts, property, agency, real estate, and insurance.

JUST A242 Business Law II 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A241 or BA A241.
Crosslisted with: BA A242.
Emphasizes basic principles, institutions, and administration of law in suretyships, partnerships, corporations, trusts, bankruptcy, negotiable instruments and sale of goods.

JUST A250 Development of Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110.
Study of underlying philosophy, development and structure of law with emphasis on the law system of the U.S. And Alaska. Includes 'civil' precedents of such constitutional provisions as 'due process' and 'equal protection' in the U.S. Bill of Rights; criticisms of law; review of Native law ways; and procedures for changing law.

JUST A251 Criminology 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110.
The study of deviant behavior and theories of crime causation and their relationship to society, law and law enforcement.

JUST A255 Criminal Investigation 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110.
Fundamentals of investigation. Crime scene search and recording, collection and preservation of physical evidence, and scientific aids. Modus operandi, sources of information, interviews and interrogations, follow-up, and case preparation.

JUST A320 Crime Prevention 3 CR
Contact Hours: 3 + 0
Examination of crime prevention strategies and concepts not usually found in law enforcement efforts. The legal, moral and ethical considerations and problems of human and environmental manipulation are explored in an interdisciplinary context. Emphasizes new and innovative approaches to preventing criminal behavior.

JUST A330 Justice and Society 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110.
Course Attributes: GER Social Sciences
The evolutionary influence of ideology, technology and social interests on the justice system. The dynamic impact of long-term emerging concepts such as 'equality' and 'privacy' will be viewed against the background of requirements of political and economic organization.

JUST A343 Constitutional Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110 or PS A101.
Crosslisted with: PS A343.
An introduction to American constitutional law through a study of selected Supreme Court cases. Among the topics considered are judicial review; separation of powers; property, commerce, and taxation; liberties guaranteed by the Bill of Rights; equal protection; and privacy. Comparisons are made with the Alaska Constitution.

JUST A344 Courts and Civil Liberties 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A343 or PS A343.
Intensive study of the development of political and civil rights with particular emphasis on the period since 1937. Focuses on cases and literature of the Supreme Court and considers various influences on judicial decision making.

JUST A350 Contemporary Correctional Issues 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110.
Special Note: Attendance on field trips is required.
A survey course designed to acquaint the student with policy formulation problems related to both traditional and modern concepts of correctional programming. The roles of the executive, legislative, and judicial branches of government in determining correctional policy will be examined. Policy issues in both pre-trial and post-conviction facilities will be covered and the trend toward privatization of correctional facilities and programs will be discussed.

JUST A352 Substantive Criminal Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110 or PARL A101.
Crosslisted with: PARL A352.
Study of elements, purposes, and functions of substantive criminal law. Includes casebook study of general law of crimes and defenses with concentration on Alaska cases and statutes in Alaska Criminal Code. Historical and philosophical concepts are covered.

JUST A354 Criminal Procedure 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110 or PARL A101.
Crosslisted with: PARL A354.
Emphasis upon legal limitations of police and right of people to be secure from government under protection of federal and Alaska constitutions. Concentration on laws of arrest, search and seizure, wiretapping, electronic surveillance, and exclusionary rule. Interrogations and confessions, lineups and other pretrial identification procedures, right to counsel, trial by jury, entrapment, and double jeopardy. Study of cases decided by U.S. and Alaska Supreme Courts, along with applicable Alaska Statutes and Alaska Rules of Criminal Procedure.

JUST A360 Justice Processes 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110.
Study of processes and issues in police, court and correctional agency operations. Definition of goals; organizational design and development, organizing and managing financial, personnel and management processes; budget, union, communication, record; community-based programs; inspection, and program assessment. Contemporary administrative process problems.

JUST A365 Comparative Justice Systems 3 CR
Contact Hours: 3 + 0
Justice systems are examined on a global basis, in contrast with American justice systems, as a basis for a comparative approach to present-day national and international problems in crime and the administration of justice. Varying approaches—continental, Anglo-American and eastern—to policing, corrections, legal systems and social order are reviewed and evaluated.

JUST A370 Judicial Policy and Court Administration 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110 and JUST A221.
A review of the Alaska court system, its problems, management, policies and procedures. Analysis of issues related to court operations and policies and alternatives to the current situation.

JUST A380 Social Service Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110 or PARL A101.
Crosslisted with: SWK A380.
Principal legal problems encountered by service professionals in fields such as health, employment, welfare and social work, with special emphasis on professional liabilities and poverty law.

JUST A385 Urban Police Problems 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110.
Exploration of a variety of contemporary problems and issues related to the provision of urban police services. Issues considered may include alternatives to arrest, patrol methods, police officer-citizen relations, job stress, and use of deadly force.

JUST A398 Individual Research 1-4 CR
Contact Hours: 1-4 + 3-12
Registration Restrictions: Junior standing, 6 credits writing courses, faculty permission.
Participation in justice center research projects or use of center data bases. Students learn to formulate hypotheses, collect and enter data, and perform computer analyses. Students will review the literature on similar projects and submit a final research paper.

JUST A413 Communications Law 3 CR
Contact Hours: 3 + 0
Crosslisted with: JPC A413.
Special Fees.
Legal rights, privileges, and regulations of press, radio, television, and films, libel, contempt, copyright, rights of privacy, and decisions of regulatory bodies.

JUST A440 Police Administration 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110 and JUST A221.
Focuses on critical issues and situations faced by police executives. Among the areas studied are decision making, organizational strategies and services mixes, citizen complaint systems, change strategies and models, information systems, personnel management, financial administration and productivity measurement.

JUST A445 Probation, Parole and Community Corrections 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A210.
Study of community-based alternatives to incarceration for adult and juvenile offenders. The purposes, operations and organization of probation and parole agencies and the decision making responsibilities of probation and parole officers will be examined. Private and public community residential programs will be analyzed.

JUST A451 Research and Policymaking 4 CR
Contact Hours: 3 + 3
Prerequisites: JUST A110 and AS A252.
Registration Restrictions: Upper-class standing.
Special Note: Laboratory is required.
An overview of social research methods and procedures as related to justice policy development, implementation and assessment. Students are exposed to the policymaking process, qualitative and quantitative information producing tools, research utilization strategies and research proposal writing.

JUST A454 Evaluation Research and Change 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Social science methods course.
Crosslisted with: SOC A454.
Application of evaluation research to policy-making process. Presents evaluative research strategies including monitoring, process evaluation, cost-benefit analysis and impact evaluation. Special attention given to designing evaluation projects, analyzing and interpreting results, preparing and presenting evaluation research reports in justice, human and community service fields.

JUST A455 Rural Justice 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110.
Multidisciplinary study of 'bush justice' in rural Alaska and in other Arctic settings including Greenland and Canada. A study of the interplay of law ways of Alaska Natives and early white populations with the developing military, territorial and state systems. Special focus on small village justice systems, traditional and modern; roles of police, councils, judges and others in the system, criminal and civil law; and alternatives to urban models proposed or tested in rural settings.

JUST A456 Anthropology and the Law 3 CR
Contact Hours: 3 + 0
Crosslisted with: ANTH A456.
This course will study variations cross-culturally in forms of social control of law, including traditional Alaska Native forms. Moving beyond the purely theoretical concerns of law cross-culturally, this course will investigate legal service delivery problems in cross-cultural settings, drawing upon both anthropological knowledge and jurisprudence in cross-cultural settings. Ways for improving legal service delivery systems will be examined.

JUST A462 Indian Law and the Settlement Act 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110 and JUST A250.
A study of the legal history and current legal status of Alaska Native people. Attention will be given to the social, cultural and legal history of American Natives in general and Alaska Natives in particular; the U.S. Policies concerning Natives and their rights, law of corporations and the corporate structure of the Settlement Act, and legal rights, money control, and land management under Alaska Native Claims Settlement Act.

JUST A465 Legislation 3 CR
Contact Hours: 3 + 0
Relationship of ordering words and procedural language to policy objectives. Drafting and interpretation of rules, regulations, and ordinances. Legal system design.

JUST A475 Juvenile Procedure 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A203 or SOC A203.
A practical clinical course providing comprehensive coverage of the Alaska children's code and juvenile law procedures.

JUST A480 Correctional Systems Management 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110 and JUST A251.
Focuses on the management of correctional rehabilitation. Probation, imprisonment, parole and community-based corrections concepts are explored in-depth. Legal aspects of correctional administration, prisoner rights, and judicial involvement in penal systems. Correctional decision making processes, participatory management and citizen involvement are assessed. International comparisons of correctional systems are utilized to explore organizational and management options.

JUST A488 Research Practicum 1-6 CR
Contact Hours: 0 + 3-18
Prerequisites: JUST A451.
Registration Restrictions: Faculty permission required.
The application of research skills to the study of a problem in the justice field. Involves field research and related independent study.

JUST A490 Contemporary Justice Issues 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: JUST A110.
Registration Restrictions: Junior standing.
Special Note: May be repeated once for credit with a change in subtitle.
A variable topics course which addresses current issues. Topics of national interest as well as those peculiar to Alaska will be included.

JUST A491 Natural Resources Law 3 CR
Contact Hours: 3 + 0
An introduction to the law of land and resource development, with special emphasis on land and water use regulation and public land issues.

JUST A495 Internship 1-6 CR
Contact Hours: 0 + 5-3
Registration Restrictions: Approval by internship coordinator.
Grade Mode: Pass/No Pass.
Specially arranged field experiences for advanced Justice majors and Paralegal Certificate students. Designed to expand knowledge and skills through supervised placements in justice, law, and governmental settings.

JUST A625 Seminar in Criminal Violation 3 CR
Contact Hours: 3 + 0
An advanced criminology seminar which will explore the application of various theories of crime causation to specific kinds of criminal violation. Students will use criminological theory in an effort to explain different types of criminal behavior and to assess both methods of prevention and potential treatment of the violator. Topics will include: crimes of violence, crimes against the public order, organized crime, white collar crime, etc.

JUST A630 Justice Administrative Theory and Practice 3 CR
Contact Hours: 3 + 0
An advanced seminar to study policy development and the application of theory and research in the administration of justice organizations. Theories, practices, innovations and administrative strategies will be explored.

JUST A640 Corrections Theory and Research 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Theoretical foundation of correctional practice explored through reading of classic texts. Development and testing of hypotheses on rehabilitation, retribution, and incapacitation.

JUST A650 Policing Theory and Research 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Social science research on policing explored through readings on police use of force, domestic violence, and community policing. Development of proposals for empirical tests of hypotheses derived from the literature.

JUST A670 Administrative Law 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Legal guidelines for adoption, enforcement, and adjudication of violations of agency regulations at federal, state, and local levels as exercised by public sector management. Legislative, executive, and judicial controls on agency action. Research project required.

JUST A690 Selected Topics in Criminal Justice 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Selected issues in criminal justice.

JUST A699 Thesis 1 CR
Contact Hours: 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://cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030

KOR A101 Elementary Korean I 4 CR
Contact Hours: 4 + 0
Course Attributes: GER Humanities
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.
Continuation of KOR A101. Emphasizes conversational mode, with exposure to grammatical structure, reading, writing and some culture.

KOR A201 Intermediate Korean I 4 CR
Contact Hours: 4 + 0
Prerequisites: KOR A102.
Continuation of KOR A102. Emphasizes reading and writing with more advanced conversational skills and grammar. Activities designed to enhance appreciation of the Korean language, people, society, and culture.

LANGUAGES - LANG

http://cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030

LANG A101 Language Self-Study I 3 CR
Contact Hours: 1 + 6
Registration Restrictions: Some prior experience with learning a language other than one's Native language.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for credit if language varies. Available in Danish (LANG A101A), Finnish (LANG A101B), Norwegian (LANG A101C), and Swedish (LANG A101D).
Introduction to another language, its basic vocabulary and grammar, dialogues and phrases for survival in its cultural environment, by means of audiocassettes and workbooks. Oral facility is stressed, and reading and writing skills practiced primarily to enhance oral language development.

LANG A102 Language Self-Study II 3 CR
Contact Hours: 1 + 6
Prerequisites: LANG A101.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for credit if language varies. Available in Danish (LANG A102A), Finnish (LANG A102B), Norwegian (LANG A102C), and Swedish (LANG A102D).
Continuation of LANG A101. Continued study of another language, its vocabulary and grammar, dialogues and phrases for survival in its cultural environments, by means of audiocassettes and workbooks. Oral facility is stressed, and reading and writing skills practiced primarily to enhance oral language development.

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 A476 Instructional Strategies for the Language Classroom: Secondary and Adult 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Basic fluency in a second language; Type A teaching certificate, or admission to the teacher certification program.
Crosslisted with: ED A476.
Theory and practice for the secondary and adult language classroom reflecting the current emphasis on oral language acquisition and a proficiency-based, multisensory approach to learning a second language. Students develop their own activities which are appropriate to the target language and the developmental level (secondary and adult).

LANG A477 Instructional Strategies for the Language Classroom: Preschool through Middle School 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Basic fluency in a second language; Type A teaching certificate, or admission to the teacher certification program.
Crosslisted with: ED A477.
Instructional strategies for the language classroom which reflect the current emphasis on oral language acquisition and a proficiency-based, multisensory approach to learning a second language. Students develop their own activities which are appropriate to the target language and the developmental level (preschool, elementary, middle school).

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.
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://www.uaa.alaska.edu/romance/
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
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
Continued development of grammar, syntax, and vocabulary; increasing emphasis on reading selected texts.

LINGUISTICS - LING

Offered through the College of Arts and Sciences
Classroom Building K (K), Room 212, 786-4355

LING A101 The Nature of Language 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities
A beginning course in study of language. Introduction to systematic analysis of human language and description of its grammatical structure, distribution, and diversity.

LIBRARY SCIENCE - LS

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.

LS A410 Introduction to Archives Administration 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate or upper-division students with concentration in humanities or social sciences.
Introduction to basic principles of archives and manuscripts administration. Covers principles and terminology, records appraisal and management, the arrangement of descriptions of collections, conservation, security and outreach.

MEDICAL ASSISTING - MA

Offered through the Community & Technical College
Allied Health Science 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.

MA A110 Principles of Radiography 3 CR
Contact Hours: 3 + 0
Special Note: Designed for those currently working in a medical office setting or students who plan to work in a medical setting.
Introduces theory and application of diagnostic radiography. Covers medical and legal responsibilities of radiography, principles of x-ray equipment, radiation projection, radiographic interpretation, and history of x- ray.

MA A120 Medical Office Procedures I 4 CR
Contact Hours: 3 + 2
Special Fees.
Introduction and orientation to administrative and business aspects of medical offices and duties of medical office receptionist or administrative assistant. Includes medical law and ethics, reception and telephone procedures, orientation to health sciences, public relations, professionalism, and psychology of patient care.

MA A125 Medical Office Procedures II 4 CR
Contact Hours: 3 + 2
Prerequisites: MA A120.
Continued study of business aspects of medical offices, including health insurance claims processing, bookkeeping, billing and collection procedures, and medical office procedures.

MA A140 Medical Transcription I 3 CR
Contact Hours: 1 + 4
Prerequisites: (MA A101 or concurrent enrollment).
Registration Restrictions: 45 WPM keyboarding in Windows word processing.
Special Fees.
Practice in machine transcribing of medical dictation, including medical report format and terminology.

MA A141 Medical Transcription II 3 CR
Contact Hours: 1 + 4
Prerequisites: MA A101 and MA A140.
Special Fees.
More advanced and complex machine transcribing of medical dictation.

MA A150 Clinical Procedures I 4 CR
Contact Hours: 3 + 2
Corequisite: MA A150L.
Special Fees.
Introduction to clinical duties of medical assistants and basic clinical procedures in medical offices. Care of patients in examining room, use and care of medical instruments and supplies, and assisting physicians with clinical procedures.

MA A155 Clinical Procedures II 4 CR
Contact Hours: 3 + 2
Prerequisites: MA A150.
Continuation of MA 150, with introduction to clinical duties of medical assistants and basic clinical procedures in medical offices. Includes electrocardiography, pharmacology, hematology, and radiology.

MA A295 Medical Office Externship 5 CR
Contact Hours: .5 + 15
Grade Mode: Pass/No Pass.
Special Note: A grade of C or better in all courses required for the nontranscripted departmental Certificate of Completion in Medical Assisting.
Provides an opportunity to apply principles, skills and knowledge in private medical offices and clinics as final preparation for employment in the field. Duties are assigned by the UAA instructor and supervised by the physician(s) and medical assistants. Learning is enhanced by on-campus seminars.

MATHEMATICS - MATH

http://saturn.math.uaa.alaska.edu
Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 154, 786-1742/4824

MATH A050 Math Modules (050 A-C) 3 CR
Contact Hours: 3 + 0
Offered only at Kenai Peninsula College.
Special Note: Equivalent to MATH A054. Credit will not be given for both MATH A054 and A050. If a student registers and satisfactorily passes all modules, a total of 3 credits will be earned.
Three credit course divided into modules which may either be taken together as a block or separately. Together, these modules cover arithmetic skills as a prelude to elementary algebra (MATH A055).

MATH A050A Basic Mathematics 1 CR
Contact Hours: 1 + 0
Offered only at Kenai Peninsula College.
Includes addition, subtraction, multiplication, and division (the four basic operations) on whole numbers, fractions, and decimals. Computation involving ratios, proportions and percents is also included. The topic of math anxiety will be dealt with throughout the course.

MATH A050B Review of Math Concepts 1 CR
Contact Hours: 1 + 0
Prerequisites: MATH A050A.
Offered only at Kenai Peninsula College.
Includes a review of elementary geometry (area and perimeter calculations), order or operations and an introduction to mathematical expressions using variables and polynomials.

MATH A050C Preparing for Algebra 1 CR
Contact Hours: 1 + 0
Registration Restrictions: MATH A050B or placement.
Offered only at Kenai Peninsula College.
Explores mathematical expressions using exponents and radicals. Also included is an overview of properties of equalities, solving equations, and elementary word problems.

MATH A054 Pre-Algebra 3 CR
Contact Hours: 3 + 0
Special Note: Equivalent to MATH A050. Credit will not be given for both MATH A050 and MATH A054. Math Placement Test not required.
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
Registration Restrictions: MATH A054 with grade of C or higher or Math Placement Test.
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.

MATH A065 Plane Geometry 3 CR
Contact Hours: 3 + 0
Registration Restrictions: MATH A055 or A060 with grade of C or higher or Math Placement Test.
Fundamental concepts of plane geometry. Methods of proof, elementary logic, congruent triangles, parallel lines, angle relationships, ratio, proportion, similarity, regular polygons, circles, and constructions.

MATH A101 Technical Mathematics 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A054.
Special Note: This course will not satisfy the mathematics requirement for an Associate of Arts Degree.
Provides mathematical training for students enrolled in technical programs. Includes basic arithmetic, operations with signed numbers, solving equations with one and two variables, formula evaluation and rearrangement. Introduction to right triangle trigonometry and solving word problems.

MATH A102 Business Math 3 CR
Contact Hours: 3 + 0
Designed for students with a modest mathematical background who wish to develop skills in applied business mathematics and financial matters. Topics include simple and compound interest, notes, present value, trade and cash discounts, markup/markdown, payrolls, depreciation, casualty insurance, sales and property tax, installment buying and business statistics.

MATH A103 Concepts of Mathematics 3 CR
Contact Hours: 3 + 0
A cultural sequence for students with limited background in mathematical thought and history. Emphasizes mathematical reasoning rather than formal manipulation. Exposes non-math students to diversity of topics in mathematics and teaches deductive reasoning. Topics chosen from arithmetic, geometry, number theory, topology, algebra, and analysis.

MATH A105 Intermediate Algebra 3 CR
Contact Hours: 3 + 0
Registration Restrictions: MATH A055 or MATH A060 with grade of C or higher or Math Placement Test.
Presumes solid foundation in elementary algebra. Includes sets, properties of real numbers, exponents and radicals, solution of first and second degree equations and inequalities. Also covers word problems, fundamental operations with polynomials, factoring, special products, rational expressions, functions, conic sections, Cartesian graphing of first and second degree equations and inequalities, systems of equations, and introduction to logarithmic and exponential functions.

MATH A107 College Algebra 4 CR
Contact Hours: 4 + 0
Registration Restrictions: MATH A105 or two years of high school algebra with grade of C or higher or Math Placement Test.
Course Attributes: GER Quantitative Skills
Special Note: A student may apply no more than 7 credits from any combination of MATH A107, A108, and A109 toward the graduation requirements for any baccalaureate degree.

Covers equations and inequalities; function theory and applications; solution of equations greater than second degree; determinants and matrices; systems of equations and inequalities, including applications; logarithmic and exponential functions, including applications; graphs and equations of conic sections, including applications; binomial theorem; sequences and series; mathematical induction and combinatoric notation.

MATH A108 Trigonometry 3 CR
Contact Hours: 3 + 0
Registration Restrictions: MATH A107 or two years of high school algebra with grade of C or higher or Math Placement Test.
Course Attributes: GER Quantitative Skills
Special Fees.
Special Note: A student may apply no more than 7 credits from any combination of MATH A107, A108 and A109 toward the graduation requirements for any baccalaureate degree.

Covers angular measure and trigonometric functions, fundamental trigonometric identities, composite angle identities, and graphs of trigonometric functions. Also includes complex numbers, DeMoivre's theorem, solution of right and oblique triangles, solution of trigonometric equations, inverse trigonometric functions and vectors. Provides calculation practice helpful for physics, engineering and survey technology courses.

MATH A109 Precalculus 6 CR
Contact Hours: 6 + 0
Registration Restrictions: MATH A105 or two years of high school algebra with a grade of B or higher, or Math Placement Test.
Course Attributes: GER Quantitative Skills
Special Note: Intensive course designed for students who intend to take the calculus sequence (MATH A200, A201, A202). A student may apply no more than seven credits from any combination of MATH A107, A108 and A109 towards the graduation requirements for any baccalaureate degree.

Intensive course covering polynomial, rational, exponential, logarithmic and trigonometric functions, composite and inverse functions, conic sections, matrices and determinants, solutions of equations and inequalities, vectors, complex numbers, DeMoivre's theorem, polar coordinates, parametric and polar graphs, sequences and series, binomial theorem, and mathematical induction.

MATH A200 Calculus I 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Either MATH A107 and MATH A108 or MATH A109 with grade of C or higher or Math Placement Test.
Course Attributes: GER Quantitative Skills

Review of functions and analytic geometry, limits, derivatives of trigonometric and rational algebraic functions, curve sketching, basic integration of power functions, the definite integral, and applications of differentiation and integration.

MATH A201 Calculus II 4 CR
Contact Hours: 4 + 0
Prerequisites: MATH A200 with minimum grade of C.
Course Attributes: GER Quantitative Skills

Differentiation and integration of exponential, logarithmic and trigonometric functions. Parametric equations, arc length, polar co-ordinates, techniques of integration, and infinite series.

MATH A202 Calculus III 4 CR
Contact Hours: 4 + 0
Prerequisites: MATH A201 with minimum grade of C.

Vectors, partial differentiation and multiple integration.

MATH A205 Mathematics for Elementary School Teachers I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Completion of UAA quantitative skills general education requirement.

Elementary set theory, numeration systems, and algorithms of arithmetic, logic, divisors, multiples, integers, rational numbers, number theory, solving equations and inequalities, graphing, problem solving strategies, consumer math, geometry, and statistics and probability. Includes use of appropriate materials for teaching these topics.

MATH A206 Mathematics for Elementary School Teachers II 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A205.

Continuation of MATH A205. Topics include real number systems and subsystems, algebra, graphing, logic, geometry, topology, measurement, metric system, probability and statistics, and calculators. Includes use of appropriate materials for teaching these topics.

MATH A215 Introduction to Mathematical Proofs 2 CR
Contact Hours: 2 + 0
Prerequisites: MATH A201.

Study of logic, sets, relations, functions, cardinality, and mathematical proof techniques.

MATH A231 Introduction to Discrete Mathematics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: MATH A107 or two years of high school algebra and Math Placement Test.

Logic in its connections with mathematical proof, set theory, Boolean algebra, and combinatorial circuits; techniques of counting; elements of graph theory. Additional topics related to the mathematics of computing, may include graph and tree traversal, finite automata, and the basics of complexity and formal languages.

MATH A250 Introduction to Computer Algebra Systems 1 CR
Contact Hours: 1 + 0
Prerequisites: MATH A200 or MATH A272.
Grade Mode: Pass/No Pass.

Introduction to the use of a computer algebra system as a tool to solve mathematical problems. Topics will cover syntax, symbolic calculations, plots, control structures, lists, and matrices. Writing of programs by students is required.

MATH A270 Applied Finite Mathematics for the Managerial Sciences 3 CR
Contact Hours: 3 + 0
Registration Restrictions: MATH A105 or two years high school algebra or Math Placement Test.
Course Attributes: GER Quantitative Skills

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

Functions and graphs, differentiation, exponential and logarithmic functions, antidifferentiation and integration, functions of several variables. Applications of these mathematical concepts.

MATH A302 Ordinary Differential Equations 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202.

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 A200 and [MATH A215 or MATH A231].

Graph theoretical and combinatorial problem solving. Discrete models for applied problems are introduced and algorithmic as well as closed form solution techniques are applied.

MATH A314 Linear Algebra 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202.

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, queuing theory, random walks, and reliability theory.

MATH A403 Introduction to Real Analysis 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A324.
Sets, real numbers, function, topology of metric spaces, and mappings.

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.

MATH A601 Abstract Algebra 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A303 and MATH A314.
Topics in groups, rings, fields, linear algebra, modules, categories, and Galois Theory.

MATH A604 Elementary Number Theory 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A303.
Study of integers and their properties. Includes congruencies, diophantine equations, distribution of primes, quadratic reciprocity, and algebraic numbers.

MATH A620 Topics in Mathematics for Teachers K-12 1-4 CR
Contact Hours: 1-4 + 0
Registration Restrictions: Certified teacher in the State of Alaska.
Special Note: May not be used to satisfy UAA degree requirements in mathematics. Specific course credit will be determined each time the course is offered depending upon the topics to be presented by the instructor. May be repeated for credit an indefinite number of times.
Problem solving and logic are emphasized. Topics are chosen from Euclidean and non-Euclidean geometry, probability and statistics, algebra, number theory and topology.

MECHANICAL ENGINEERING - ME

http://www.engr.uaa.alaska.edu
Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900

ME A601 Sound Control and Measurement 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Characteristics of sound, methods and scales used to measure and characterize sound, and engineering approaches used to control sound levels.

ME A685 Arctic Heat and Mass Transfer 3 CR
Contact Hours: 3 + 0
An introduction to the principles of heat and mass transfer with special emphasis on application to problems encountered in the Arctic such as ice and Frost formation, permafrost, condensation, and heat loss in structures.

ME A687 Arctic Materials Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A603.
The performance of materials subjected to temperature extremes typical of the Arctic are examined. Specific topics covered include metallic and nonmetallic solids, fuels and lubricants, batteries, electrical considerations, corrosions and human performance.

MECHANICAL TECHNOLOGY - MECH

Offered through Kenai Peninsula College
34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

MECH A101 Introduction to Machine Shop 4 CR
Contact Hours: 2 + 4
Offered only at Kenai Peninsula College.
The fundamentals of safe machine shop practice including the operation of the lathe, vertical mill, bandsaw, drill press, grinders, cut-off saw, and radial drill. Precision measurement, single point threading and off-hand drill sharpening are taught with emphasis on repair work.

MECH A102 Intermediate Machine Shop 4 CR
Contact Hours: 2 + 4
Prerequisites: MECH A101.
Offered only at Kenai Peninsula College.
A continuation of safe shop fundamentals to include metallurgy, gears, fits, broaching, tapers, indexing and dividing, rotary table, multiple lead threads, carbide tools, and finishes. The use of machinery as required for machine repair. More complex projects will be completed by the student.

MECH A110 Reciprocating Engines 3 CR
Contact Hours: 2 + 2
Prerequisites: MECH A101.
Offered only at Kenai Peninsula College.
Theory and application of reciprocating engines and their auxiliary systems. Disassembly and reassembly of engines. Regular maintenance routines. Primarily oriented toward large diesel and natural gas stationary engines.

MECH A115 Gasoline Engine Rebuilding 3 CR
Contact Hours: 2 + 2
Offered only at Kenai Peninsula College.
Discusses in detail the operating principles of aspirated, non-computerized automotive engines. Includes hands-on practice in rebuilding procedures including valve grinding, bearing fitting, and cylinder boring.

MECH A120 Pumps 3 CR
Contact Hours: 2 + 2
Prerequisites: MATH A101 and MECH A101.
Offered only at Kenai Peninsula College.
Operations, maintenance, commissioning and troubleshooting of centrifugal and positive displacement pumps. Disassembly and reassembly of pumps, bearings, packing and mechanical seals.

MECH A130 Dynamic Compressors 3 CR
Contact Hours: 2 + 2
Prerequisites: MATH A101 and MECH A101.
Offered only at Kenai Peninsula College.
Theory of operation, maintenance, and troubleshooting of centrifugal and axial flow compressors and their auxiliary systems.

MECH A131 Positive Displacement Compressors 3 CR
Contact Hours: 2 + 2
Prerequisites: MATH A101 and MECH A101.
Offered only at Kenai Peninsula College.
Theory of operation, maintenance, and troubleshooting of reciprocating, screw, lobe, and sliding vane compressors and their auxiliary systems.

MECH A201 Advanced Machine Shop 4 CR
Contact Hours: 2 + 4
Prerequisites: MECH A101.
Registration Restrictions: The student should have fundamental skills with the lathe, mill, drill press, saws, and hand tools.
Offered only at Kenai Peninsula College.
Advanced projects will be completed by students to include surface grinding, heat treatment of metals, hardness testing, shaft straightenings, and machining couplings. Other topics will be lapping, magna-flux, boring operations, effects of welding on machining, keyed assemblies, collets and torque.

MECH A202 Advanced Machine Shop II 4 CR
Contact Hours: 2 + 4
Prerequisites: MECH A101.
Registration Restrictions: The student should have fundamental skills with the lathe, mill, drill press, saws, and hand tools.
Offered only at Kenai Peninsula College.
Emphasis on repair with imagination. Includes design, sketching, machining, and completing advanced repair projects. Covers original concepts and creative repair methods.

MECH A265 Combustion Gas Turbines 3 CR
Contact Hours: 2 + 2
Prerequisites: MATH A101 and MECH A101 and MECH A130.
Offered only at Kenai Peninsula College.
Operations, maintenance and troubleshooting of gas turbine engines and their auxiliary systems. Disassembly and reassembly of engines.

MECH A266 Steam Turbines 3 CR
Contact Hours: 2 + 2
Prerequisites: MATH A101 and MECH A101.
Offered only at Kenai Peninsula College.
Operations, maintenance and troubleshooting of single and multiple stage steam turbines and their auxiliary systems.

MECH A273 Machine Shop Lab 1 CR
Contact Hours: 0 + 1
Registration Restrictions: Three semesters of machine shop.
Offered only at Kenai Peninsula College.
Advanced machine shop practice to include more involved projects, machine tool set-ups, and techniques. Emphasizes student planning, executing, and completing projects at a high level.

MEDICAL LABORATORY TECHNOLOGY - MEDT

Offered through the Community & Technical College
Allied Health Science Building (AHS), Room 155, 786-6928

MEDT A132 Introduction to Medical Laboratory Technology 3 CR
Contact Hours: 2 + 2
Special Fees.
Introduction to organization of hospital laboratories and certification of personnel. Overview of hematology, urinalysis, immunology, microbiology, chemistry, and blood banking.

MEDT A150 Phlebotomy Essentials 3 CR
Contact Hours: 2 + 2
Collection of diagnostic blood specimens from patients by venipuncture, anatomy and physiology, infection control, safety, venipuncture collection equipment, specimen processing, urine analysis, biohazardous specimens, quality assurance, patient interaction, computers, and ethics. Prepares students for certification examinations.

MEDT A151 Collection Techniques by Capillary Puncture 2 CR
Contact Hours: 1 + 2
Covers collection of diagnostic blood specimens from patients by skin puncture, infection control, safety, capillary collection equipment, bedside testing, blood clotting, neonatal specimens, and blood smear techniques. Prepares students for certification exams.

MEDT A152 Clinical Phlebotomy Practicum 3 CR
Contact Hours: 0 + 9
Prerequisites: MEDT A150 with minimum grade of C and MEDT A151 with minimum grade of C.
Registration Restrictions: Faculty permission.
Clinical practicum in area hospitals for phlebotomy. Application of didactic theories and principles from MEDT A150 and MEDT A151. Prepares students for certification examinations.

MEDT A202 Clinical Chemistry 6 CR
Contact Hours: 3 + 6
Prerequisites: CHEM A105 and CHEM A105L and [BIOL A105 or BIOL A106 or BIOL A111 or BIOL A112 or BIOL A240].
Laboratory techniques and studies in blood, urine, and body fluid chemistries. Emphasis on principles of reactions and quality control. Practical application of techniques learned.

MEDT A203 Clinical Microbiology 6 CR
Contact Hours: 3 + 6
Prerequisites: CHEM A105 and CHEM A105L and [BIOL A105 or BIOL A106 or BIOL A111 or BIOL A112 or BIOL A240].
Handling of specimens. Bacterial morphology and growth requirements. Media preparation, sterilization, disinfection, and asepsis. Isolation, identification, and sensitivity testing of pathogenic bacteria.

MEDT A204 Hematology 4 CR
Contact Hours: 2 + 4
Registration Restrictions: None. Recommend grade of C or better in CHEM A105 and CHEM A105L and one of: BIOL A105, BIOL A106, BIOL A111, BIOL A112, or BIOL A240.
Special Fees.
Beginning hematology covering origin and function of blood cells, identification of normal cells, blood cell counting and other routine hematological tests, automation and quality control.

MEDT A205 Advanced Hematology 3 CR
Contact Hours: 2 + 2
Prerequisites: CHEM A105 and CHEM A105L and [BIOL A105 or BIOL A106 or BIOL A111 or BIOL A112 or BIOL A240] and (MEDT A204 or concurrent enrollment).
Special Fees.
Coagulation, leukemia, anemia, and other hematological disorders, special hematological procedures, and identification of abnormal cells.

MEDT A206 Serology 3 CR
Contact Hours: 2 + 2
Prerequisites: CHEM A105 and CHEM A105L and [BIOL A105 or BIOL A106 or BIOL A111 or BIOL A112 or BIOL A240].
Basic principles of serology and immunology. Techniques and tests used for detection of immunological diseases, and quality control.

MEDT A207 Immunohematology 4 CR
Contact Hours: 2.5 + 3
Prerequisites: CHEM A105 and CHEM A105L and MEDT A206 and [BIOL A105 or BIOL A106 or BIOL A111 or BIOL A112 or BIOL A240].
Special Fees.
Organization and function of blood banks, donor screening, blood grouping, and compatibility testing. Hemolytic disease of newborns, and blood storage and shipment.

MEDT A208 Urine Analysis 3 CR
Contact Hours: 2 + 2
Prerequisites: CHEM A105 and CHEM A105L and [BIOL A105 or BIOL A106 or BIOL A111 or BIOL A112 or BIOL A240].
Special Fees.
Studies in normal and abnormal renal function. Routine urine chemistry and microscopic determinations. Special urine chemistry procedures and quality control.

MEDT A209 Parasitology and Mycology 2 CR
Contact Hours: 1 + 2
Prerequisites: BIOL A105 or BIOL A106 or BIOL A111 or BIOL A112 or BIOL A240.
Special Fees.
Instruction in morphologic identification of common helminths, protozoa, and fungi which cause human diseases. Instruction in performing routine laboratory procedures for diagnosis of these infections.

MEDT A210 Instrumentation in Clinical Laboratory 2 CR
Contact Hours: 1.5 + 1
Prerequisites: CHEM A105 and CHEM A105L and [BIOL A105 or BIOL A106 or BIOL A111 or BIOL A112 or BIOL A240].
Overview of chemistry instrumentation present in clinical laboratories. Includes principles of operation and hands-on experience. Covers fundamentals of electricity, photometry, computers, automation, and electrodes.

MEDT A295 Clinical Practicum 12 CR
Contact Hours: 0 + 36
Prerequisites: MEDT A202 and MEDT A203 and MEDT A204 and MEDT A205 and MEDT A206 and MEDT A207 and MEDT A208 and MEDT A209 and MEDT A210.
Special Fees.
Clinical practicum in area hospitals for clinical chemistry, clinical microbiology, hematology, serology, immunohematology, urine analysis, parasitology and microbiology, and instrumentation. Application of theories and principles.

MARINE TECHNOLOGY - MT

Offered through Kenai Peninsula College
34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

MT A122 Small Engine Maintenance and Repair 3 CR
Contact Hours: 3 + 0
Offered only at Kenai Peninsula College.
Maintenance and operation of small gasoline engines. Application of these engines to pumps, chain saws, and outboard motors.

MT A123 LORAN and Radar Navigation 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College Kachemak Bay Branch.
Special Note: Students are encouraged to bring their own LORAN to class.
Development of an understanding of LORAN and radar and their practical applications and use in navigation. Includes interference problems on vessels, installation and interpretation of radar images.

MT A230 Boat Operator License Prep 2 CR
Contact Hours: 2 + 0
Grade Mode: Pass/No Pass.
Covers weather, first aid, seamanship, pollution control, navigation rules of the road, etc., all of which a basic understanding is necessary to pass the USCG examination to operate a marine vessel for hire.

MT A231 Vessel Commercial License Preparation 3 CR
Contact Hours: 3 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Preparation for passing the USCG license exam for motor boat operator of uninspected passenger vessels, and master, inland and near coastal.

MT A232 Practical Navigation/ Small Craft 2 CR
Contact Hours: 2 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Covers topics such as tides and currents, compass use, weather and chart reading, finding position, military clock, plotting and LORAN navigation.

MT A233 Master License Prep/Under 100 Gross Ton 2 CR
Contact Hours: 2 + 0
Prerequisites: MT A230.
Grade Mode: Pass/No Pass.
Covers topics to prepare a person to pass the USCG examination for the boat master license under 100 gross ton. Includes rules of the road, CFR and UPV regulations, seamanship, fire fighting, aids to navigation, LORAN, compass, gyro and lifesaving.

MT A235 Marine Survival Equipment, Procedures, and Drills 1 CR
Contact Hours: .5 + 1
Grade Mode: Pass/No Pass.
Focus on survival equipment and procedures used in an emergency at sea. Includes drill instructor requirements for documented fishing vessels. Hands-on training with life rafts, EPIRBS, immersion suits, and fire fighting. Pool session and on board drills will also be conducted. USCG approved.

MUSIC - MUS

http://www.uaa.alaska.edu/music/
Offered through the College of Arts and Sciences
Arts Building (ARTS), Room 356, 786-1595

MUS A101 Noon Singers 2 CR
Contact Hours: 2 + 0
Special Note: May be taken four times for credit.
Performance-oriented training chorus. Students should demonstrate secure pitch and basic knowledge of rhythm and notes.

MUS A101A Community College Chorus 2 CR
Contact Hours: 2 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Performance-oriented class for community choral singing.

MUS A102 Concert Chorus I 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Admission by audition only.
Special Fees.
Special Note: May be repeated once for credit.
Performance-oriented large chorus. Established community organization for singers who read music, demonstrate secure rhythm and pitch, and produce acceptable vocal sound.

MUS A103 Community Band 2 CR
Contact Hours: 2 + 0
Grade Mode: Pass/No Pass.
Offered only at Matanuska-Susitna College.
This course is for anyone who is interested in playing a musical instrument with a structured, established band. The age group of participants ranges from 14 to 70. Experience ranges from beginners to professionals.

MUS A105 Jazz Techniques Lab 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Admission by audition only.
Performance-oriented group for students with intermediate to advanced instrumental skills. Focuses on reading, rehearsal, and study of contemporary music adapted for big band sound or jazz ensemble.

MUS A111 Fundamentals of Music 3 CR
Contact Hours: 3 + 0
Rudimentary work in the elements of music and an introduction to notation, rhythm, scales, keys, intervals, and musical terminology. Designed for students with little or no background in music reading, or as a refresher course for those who have studied music.

MUS A112 Practical Theory 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A111.
Registration Restrictions: Ability to read music in treble and bass clef in all keys.
Elementary study of harmony and melody; formation of scales, modes, intervals, chords, inversions, and simple harmonic progressions. Writing and harmonizing of melodic lines.

MUS A113 Sightsinging and Dictation I 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Ability to read treble and bass clef.
Develops skills for sightsinging (singing melody correctly at first reading without using instrument) and learning pitch and interval recognition so that melody never seen but only heard can be written on paper. Dictation is used to transcribe pop/folk or self-composed tunes. Knowledge of major scales and key signatures is helpful.

MUS A114 Sightsinging and Dictation II 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A113.
Sightsinging major and minor melodies containing accidentals, modulations, and syncopated rhythms. Dictation develops recognition of all interval types, major and minor triads, and major, minor, and dominant seventh chords.

MUS A115 Jazz Theory I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Ability to read music, theory background, basic ability on an instrument.
Detailed study of jazz using modulation, sequence, transposition, arranging, and voicing through analysis and dictation. Course is adapted to individual students on keyboard or other instruments.

MUS A116 Jazz Theory II 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A115.
Application of skills obtained in MUS 115. Modulation, sequence, transposition, arranging, and voicing are studied, with compositions performed by lab groups. Copyright preparation is discussed.

MUS A121 Music Appreciation 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Fine Arts
Special Note: BA music majors may not use this course towards their GER-Fine Arts requirement.
Enhancement of listener understanding and enjoyment of various musical styles. Investigation of music through the ages: Medieval through contemporary.

MUS A124 History of Jazz 3 CR
Contact Hours: 3 + 0
History and development of jazz from its early heritage to the present, emphasizing representative styles and individual or group contributors. Recordings, guest artists, and possible field trips enhance regular classroom activities.

MUS A131 Music Theory I 3 CR
Contact Hours: 3 + 0
Corequisite: MUS A133.
Organization of musical materials with emphasis on diatonic functional harmony. Introduction to part writing and keyboard skills.

MUS A132 Music Theory II 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A131.
Corequisite: MUS A134.
Continuation of MUS A131, emphasizing part writing and melody harmonization. Introduction of non-harmonic tones and modulation and development of practical keyboard skills.

MUS A133 Sightsinging and Ear Training I 2 CR
Contact Hours: 2 + 0
Corequisite: MUS A131.
The development of skills in hearing and reading music. The course features the study of intervals and chords and common metrical patterns.

MUS A134 Sightsinging and Ear Training II 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A133.
Corequisite: MUS A132.
Continuation of MUS A133, emphasizing rhythmic, melodic and harmonic dictation.

MUS A140 Fingerstyle Guitar I 2 CR
Contact Hours: 2 + 0
Special Fees.
Special Note: Student must furnish own 6-string acoustic guitar.
Beginning course for those who do not read music or have limited experience with the guitar. Students develop repertoire of traditional, folk, and contemporary music using 13 basic chord shapes, alternating bass technique, simple notereading skills, and six basic fingerstyle guitar patterns.

MUS A141 Fingerstyle Guitar II 3 CR
Contact Hours: 3 + 0
Registration Restrictions: MUS A140 or ability to noteread melodies on guitar in key of C major; acquaintance with fingerstyle technique and concept of alternating bass. Audition required for students who have not completed MUS A140.
Special Fees.
Continuation of MUS 140. Barre chords, bass runs, and major scale studies are introduced. Accompaniment skills are broadened to include 13 fingerstyle patterns, some in compound time.

MUS A142 Guitar Chord Theory 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Ability to read music on the treble staff. May be taken concurrently with MUS A141.
Special Fees.
Special Note: Instrument required.
One semester theory course for the guitar, including analysis and construction of scales, intervals, and chords. Transposition and assignment of chords to melodies and eartraining exercises to develop aural recognition of scales, intervals, and chords.

MUS A143 Recorder I 1 CR
Contact Hours: 1 + 0
Special Note: Instrument required.
Fundamentals of recorder technique. Introduction to notereading in keys having up to two sharps or flats, using folk and classical arrangements for soprano, alto, and tenor recorder.

MUS A144 Recorder II 1 CR
Contact Hours: 1 + 0
Prerequisites: MUS A143.
Special Note: Instrument required.
Continuation of MUS 143. Emphasizes development of proper recorder techniques and includes reading in keys having up to four sharps or flats, using folk and classical arrangements for soprano, alto, and tenor recorder.

MUS A147 Classical Guitar I 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Basic guitar skills and ability to read music.
Survey of guitar literature, periods, and styles. Refinement of basic skills: sight-reading, ornamentation, tone coloration, and rhythmic interpretation.

MUS A148 Classical Guitar II 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A147.
Continuation of MUS A147. Emphasizes proper interpretation and performance of classical guitar repertoire. Teaches intermediate techniques and notereading skills.

MUS A149 Voice Lessons I 1-2 CR
Contact Hours: 1-2 + 0
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.
Fundamentals of piano techniques. Introduces notereading in five-finger positions in the keys of C and G, using folk and classical arrangements in simple meter. Classes conducted in piano lab.

MUS A151 Piano Class II 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Faculty permission only.
Continuation of MUS A150. Develops proper piano technique, including notereading skills in extended positions in the keys of C, F, and G. Uses folk, classical, and blues arrangements in simple meter, and introduces syncopation. Classes conducted in piano lab.

MUS A152 Voice Class I 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Ability to match pitches.
Special Fees.
Special Note: Ability to read music not a prerequisite.
Study and practice of basic fundamentals of singing and song interpretation, stressing attitude and correct practice habits. Introduces and expands general knowledge of singing: mechanism, technique, repertoire, and performance practices.

MUS A153 Voice Class II 1 CR
Contact Hours: 1 + 0
Prerequisites: MUS A152.
Study and practice of basic fundamentals of singing and song interpretation, stressing posture, breath control, and tone production. 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 A157 Woodwind Class I 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Ability to read music and basic skills on chosen instrument.
Special Note: Prior ensemble experience preferred.
Trains woodwind players to perform effectively as soloists and in ensembles. Covers orchestral, jazz, chamber, and solo styles and a wide repertoire of woodwind literature.

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 and GER Humanities
Special Note: BA music majors may not use this course towards their GER-Fine Arts or CAS Humanities sequence requirements.
Music before 1750. Explores stylistic developments and structure through Medieval, Renaissance, and Baroque eras within their historical context.

MUS A222 History of Music II 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A121 or MUS A131.
Course Attributes: GER Fine Arts and GER Humanities
Special Note: BA music majors may not use this course towards their GER-Fine Arts or CAS Humanities sequence requirements.
Western Art music since 1750. Stylistic developments and structure through Classical, Romantic, and 20th Century eras and Non-Western music within their historical context.

MUS A231 Music Theory III 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS 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 Sightsinging and Ear Training III 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A134.
Corequisite: MUS A231.
Develops advanced skills in hearing and reading music. Features modulation, chromaticism and complex rhythmic patterns.

MUS A234 Sightsinging and Ear Training IV 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A233.
Corequisite: MUS A232.
Continuation of MUS A233.

MUS A240 Fingerstyle Guitar III 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A141 and MUS A142.
Registration Restrictions: Faculty permission.
Special Fees.
Develops intermediate fingerstyle skills using contemporary folk music repertoire. Teaches 14 patterns, moving bass line, ornamentation, bass instrumental technique, and syncopation. Continues ear training and scale studies. Introduces arranging and notereading in second position.

MUS A241 Fingerstyle Guitar IV 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A142 and MUS A240.
Registration Restrictions: Faculty permission.
Continuation of MUS A240. Emphasizes arranging skills including bridging, instrumentals, medleys, and bass lines. Continues notereading in 2nd, 4th and 5th positions, with eartraining exercises to develop transcribing skills, and intermediate fingerstyle patterns and chord study.

MUS A242 Solo Fingerstyle Guitar 1 CR
Contact Hours: 1 + 0
Prerequisites: MUS A142 and MUS A240 and MUS A241.
Registration Restrictions: Faculty permission.
Special Fees.
Develops intermediate bass instrumental technique and introduces treble fingerstyle instrumental in 2nd, 4th and 5th positions. Continues notereading studies in 5th and 7th positions and presents basic composition skills. Students perform given repertoire and original arrangements.

MUS A249 Voice Lessons II 1-2 CR
Contact Hours: 1-2 + 0
Prerequisites: MUS A149.
Offered only at Kenai Peninsula College.
Continuation of MUS A149.

MUS A250 Piano Class III 1 CR
Contact Hours: 1 + 0
Prerequisites: MUS A151.
Continuation of MUS A151. Develops proper piano technique emphasizing ensemble playing and notereading in keys having up to two sharps and flats, using folk, popular, and classical arrangements in simple and compound meter. Classes conducted in piano lab.

MUS A251 Piano Class IV 1 CR
Contact Hours: 1 + 0
Prerequisites: MUS A250.
Continuation of MUS A250. Develops piano technique emphasizing ensemble playing and notereading in keys with three or more sharps and flats. Uses folk, popular, and classical arrangements in simple and compound meter. Classes conducted in piano lab.

MUS A252 Voice Class III 1 CR
Contact Hours: 1 + 0
Prerequisites: MUS A153.
Study and practice of basic fundamentals of singing and song interpretation, stressing basic diction principles, vowel and consonant production, vowel equalization, and production of two- and three-vowel sounds. Expands general knowledge of singing: mechanism, technique, repertoire, and performance practices.

MUS A253 Voice Class IV 1 CR
Contact Hours: 1 + 0
Prerequisites: MUS A252.
Study and practice of basic fundamentals of singing and song interpretation, stressing legato and sostenuto technique, agility and flexibility, stage presence, and interpretation. Expands general knowledge of singing: mechanism, technique, repertoire, and performance practices.

MUS A261 Private Lessons 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS A162.

MUS A262 Private Lessons 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS A261.

MUS A263 Private Lessons (Non-Major) 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS A164.

MUS A264 Private Lessons (Non-Major) 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS A263.

MUS A280 Basic Conducting 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A131.
Introduces principles of conducting. Explores time-beating, use of left hand, score reading, and transposition as it relates to conducting.

MUS A301A University Singers 1 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Grade Mode: Pass/No Pass.
Stacked with: MUS A301B.
Special Fees.
Special Note: May be repeated for credit.
Rehearsal and performance of chamber vocal literature from Renaissance up to and including 20th century contemporary literature. Ensemble for the non music major.

MUS A301B University Singers 2 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Stacked with: MUS A301A.
Special Fees.
Special Note: May be repeated for credit.
Rehearsal and performance of chamber vocal literature from Renaissance up to and including 20th century contemporary literature. Ensemble credit for vocal majors.

MUS A302A Chamber Music and Accompanying 1 CR
Contact Hours: 1 + 3
Registration Restrictions: By audition.
Grade Mode: Pass/No Pass.
Stacked with: MUS A302B.
Special Note: May be repeated for credit. Advanced vocalists and instrumentalists are also encourage to enroll.
Ensemble course for the non music major pianist. Covers the art of accompanying singers and instrumentalists and relevant skills such as sight-reading and score-reading.

MUS A302B Chamber Music and Accompanying 2 CR
Contact Hours: 1 + 3
Registration Restrictions: By audition.
Stacked with: MUS A302A.
Special Note: May be repeated for credit. Advanced vocalists and instrumentalists are also encouraged to enroll.
Ensemble course for pianists. Covers the art of accompanying singers and instrumentalists and relevant skills such as sight-reading and score-reading.

MUS A303A University Wind Ensemble 1 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Grade Mode: Pass/No Pass.
Stacked with: MUS A303B.
Special Note: May be repeated for credit
In-depth rehearsal and performance of original band music and transcriptions from Renaissance up to and including 20th century literature. Ensemble for the non music major.

MUS A303B University Wind Ensemble 2 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Stacked with: MUS A303A.
Special Note: May be repeated for credit.
In-depth rehearsal and performance of original band music and transcriptions from Renaissance up to and including 20th century literature. Ensemble course for wind and percussion majors.

MUS A307A University Sinfonia 1 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Grade Mode: Pass/No Pass.
Stacked with: MUS A307B.
Special Note: May be repeated for credit.
Intensive study of chamber orchestra literature leading to public performance. String music for intermediate and advanced performers. Includes wind and percussion players for specific works. Ensemble for non music majors.

MUS A307B University Sinfonia 2 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Stacked with: MUS A307A.
Special Note: May be repeated for credit.
Intensive study of chamber orchestra literature leading to public performance. String music for intermediate and advanced performers. Includes wind and percussion players for specific works. Ensemble for string majors.

MUS A313 Opera Workshop 1-3 CR
Contact Hours: 0 + 3-9
Registration Restrictions: Faculty permission required.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for credit.
The study, rehearsal, production, and performance of selected works from the standard operatic repertoire.

MUS A331 Form And Analysis 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A232.
Structural principles and stylistic analysis of music of the 18th and 19th centuries.

MUS A361 Private Lessons 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS A262.

MUS A362 Private Lessons 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS 361.

MUS A363 Private Lessons (Non-Major) 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS A264.

MUS A364 Private Lessons (Non-Major) 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS A363.

MUS A371 Brass Methods and Techniques 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A132.
Special Note: Student must be able to read music fluently while holding/performing on the brass instruments.
Instruction in the brass instruments. The course is part of the teacher training program.

MUS A372 Woodwind Methods and Techniques 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A132.
Special Note: Student must be able to read music fluently while holding/performing on the woodwind instruments.
Instruction in the woodwind instruments. The course is part of the teacher training program.

MUS A373 String Methods and Techniques 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A132.
Special Note: Student must be able to read music fluently while holding/performing on the string instruments.
Instruction in the stringed instruments of the orchestra and guitar. The course is part of the teacher training program.

MUS A374 Voice Methods and Techniques 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A132.
Special Note: Student must be able to sing and read music fluently.
Instruction in musical use of the voice. The course is part of the teacher training program.

MUS A375 Percussion Methods and Techniques 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Student must be able to read music fluently while holding/performing on the percussion instruments.
Instruction in the percussion instruments. The course is part of the teacher training program.

MUS A381 Choral Conducting 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A232 and MUS A280.
Principles of conducting and interpreting choral music.

MUS A382 Instrumental Conducting 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A232 and MUS A280.
Principles of conducting and interpreting instrumental music.

MUS A405A University Jazz Ensemble 1 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Grade Mode: Pass/No Pass.
Stacked with: MUS A405B.
Special Fees.
Special Note: May be repeated for credit.
Rehearsal and performance of big band jazz. Music selected from a variety of styles and eras including swing, rock, fusion and pop. Ensemble for non music majors.

MUS A405B University Jazz Ensemble 2 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Stacked with: MUS A405A.
Special Fees.
Special Note: May be repeated for credit.
Rehearsal and performance of big band jazz. Music selected from a variety of styles and eras including swing, rock, fusion and pop. Elective for music majors.

MUS A406A Jazz Singers 1 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Grade Mode: Pass/No Pass.
Stacked with: MUS A406B.
Special Note: May be repeated for credit.
Choral ensemble, emphasis on public performances of vocal jazz literature. Ensemble for non music major.

MUS A406B Jazz Singers 2 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Stacked with: MUS A406A.
Special Note: May be repeated for credit.
Choral ensemble, with emphasis on public performances of vocal jazz literature. Elective for music majors.

MUS A408A University Percussion Ensemble 1 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Grade Mode: Pass/No Pass.
Stacked with: MUS A408B.
Special Note: May be repeated for credit.
Study and performance of percussion chamber music including 20th century literature for percussion as well as transcriptions of earlier music. Ensemble for non music majors.

MUS A408B University Percussion Ensemble 2 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition.
Stacked with: MUS A408A.
Special Note: May be repeated for credit.
Study and performance of percussion chamber music including 20th century literature for percussion as well as transcriptions of earlier music. Elective for music majors.

MUS A409A University Guitar Ensemble 1 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition. Recommended: prior ensemble or solo recital experience.
Grade Mode: Pass/No Pass.
Stacked with: MUS A409B.
Special Fees.
Special Note: May be repeated for credit.
Study and performance of traditional repertoire, Latin and European folk music, and popular and classical themes arranged for two or more guitars. Provides experience in sight-reading and refines practice and memorization skills. Emphasizes stylistic interpretation and stage delivery. Ensemble for non music majors.

MUS A409B University Guitar Ensemble 2 CR
Contact Hours: 2 + 0
Registration Restrictions: By audition. Recommended: prior ensemble or solo recital experience.
Stacked with: MUS A409A.
Special Fees.
Special Note: May be repeated for credit.
Study and performance of traditional repertoire, Latin and European folk music, and popular and classical themes arranged for two or more guitars. Provides experience in sight reading and refines practice and memorization skills. Emphasizes stylistic interpretation and stage delivery. Elective for music majors.

MUS A420 Medieval and Renaissance Music 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A222 and MUS A232.
Special Note: BA music majors must first pass MUS 154 and the functional piano exam by jury before enrolling in this course.
Musical developments in Europe up to 1600. In-depth study of sacred and secular monophony, polyphony, choral and instrumental music. Requires intensive listening and reading of music.

MUS A421 Music in the Baroque Period 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A222 and MUS A232.
Special Note: BA music majors must first pass MUS 154 and the functional piano exam by jury before enrolling in this course.
Musical style from 1600 to 1750. In-depth study of keyboard music, opera, oratorio and cantata, and instrumental music. Requires intensive listening and reading of music.

MUS A422 Music in the Classical Period 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A222 and MUS A232.
Special Note: BA music majors must first pass MUS 154 and the functional piano exam by jury before enrolling in this course.
Musical style from 1720 to 1830. In-depth study of the music of pre-classic composers and Haydn, Mozart, and Beethoven. Requires intensive listening and reading of music.

MUS A423 Music in the Romantic Period 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A222 and MUS A232.
Special Note: BA music majors must first pass MUS 154 and the functional piano exam by jury before enrolling in this course.
Musical style from 1820 to 1900. In-depth study of orchestral and choral music, opera, lieder, and music for piano. Requires intensive listening and reading of music.

MUS A424 Music in the 20th Century 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A222 and MUS A232.
Special Note: BA music majors must first pass MUS A154 and the functional piano exam by jury before enrolling in this course.
Musical developments since 1900. In-depth study of serialism, neo-classicism, neo-Romanticism, expressionism, primitivism, minimalism, and styles since 1950. Requires intensive listening and reading of music.

MUS A431 Counterpoint 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A232.
Study of the contrapuntal techniques of the 16th and 18th centuries. Features writing in appropriate vocal and instrumental forms.

MUS A432 Orchestration 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A232.
Principles and practices of composing and transcribing music for various instrumental ensembles, including band and orchestra.

MUS A461 Private Lessons 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS A362.

MUS A462 Private Lessons 1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS 461.

MUS A466 String and Wind Master Class 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Faculty Permission.
Seminar in performance practice for string and wind players. Comparative analysis and discussion of string and wind literature and close examination of their styles and periods (early Baroque through 20th century). At least one performance or research project required each semester.

MUS A467 Piano Master Class 2 CR
Contact Hours: 2 + 0
Special Note: Mandatory each semester for piano performance majors; 8 credits minimum required for piano majors in music education; may be repeated for credit.
Seminar in performance practice for pianists. Comparative analysis and discussion of piano literature and close examination of its styles and periods (early Baroque through 20th century). At least one performance or research project required each semester.

MUS A468 Voice Master Class 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Faculty permission required.
Special Fees.
Special Note: May be repeated for credit.
Performance and discussion of the styles and periods of vocal literature ranging from the Renaissance to contemporary repertoire. Weekly in class performance trains the student to be more at ease and effective in singing.

MUS A469 Guitar Master Class 2 CR
Contact Hours: 2 + 0
Registration Restrictions: One of MUS A147, MUS A240, or private lessons.
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.

NURSING SCIENCES - NS

http://www.son.uaa.alaska.edu/school_of_nursing
Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 103, 786-4550

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.
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 A301 Processes of Professional Nursing 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Formal admission to the BS in Nursing Science.
Special Fees.
Introduction to the processes of professional nursing including interpersonal, interactive, and profession building processes. Provides beginning practice in critical thinking skills required in professional nursing and introduces concepts, theories and ideas which are the basis of later in-depth nursing courses.

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.
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 A305 Health Assessment of Individuals 2 CR
Contact Hours: 2 + 0
Prerequisites: NS A301 with minimum grade of C and NS A216 with minimum grade of C and PSY A150 with minimum grade of C and (NS A305L or concurrent enrollment).
Registration Restrictions: Admission to BS in Nursing Science or RN licensure in State of Alaska.
Application of the nursing process focusing on health assessment, skills and tools for subjective and objective data collection, and interview techniques. The processes of history taking and physical examination are emphasized.

NS A305L Health Assessment of Individuals Lab 1 CR
Contact Hours: 0 + 3
Prerequisites: NS A301 with minimum grade of C and NS A216 with minimum grade of C and PSY A150 with minimum grade of C and (NS A305 or concurrent enrollment).
Registration Restrictions: Admission to BS in Nursing Science or RN licensure in State of Alaska.
Grade Mode: Pass/No Pass.
Special Fees.
Skills laboratory experience to build skills and reinforce student learning in NS 305.

NS A306 Fundamentals of Nursing 2 CR
Contact Hours: 2 + 0
Prerequisites: BIOL A240 with minimum grade of C and NS A301 with minimum grade of C and NS A216 with minimum grade of C.
Registration Restrictions: Formal admission to BS, Nursing Science major.
Corequisite: NS A305, NS A305L, NS A306L and NS A309.
Systematic use of the nursing process in the care of individuals requiring assistance with hygiene, mobility, elimination, nutrition, and comfort.

NS A306L Fundamentals of Nursing Lab 2 CR
Contact Hours: 0 + 6
Prerequisites: BIOL A240 with minimum grade of C and NS A301 with minimum grade of C and NS A216 with minimum grade of C.
Registration Restrictions: Formal admission to BS, Nursing Science major.
Corequisite: NS A305, NS A305L, NS A306 and NS A309.
Grade Mode: Pass/No Pass.
Special Fees.
Clinical and skills laboratory experiences to build skills and reinforce student learning in NS A306.

NS A309 Pharmacology in Nursing 3 CR
Contact Hours: 3 + 0
Prerequisites: NS A301 with minimum grade of C and NS A216 with minimum grade of C.
Registration Restrictions: Admission to BS in Nursing Science or RN licensure in State of Alaska.
Corequisite: .
Special Fees.
Consideration of prescription and non-prescription drugs used in the therapeutic management of individuals experiencing common pathophysiologic conditions and in promoting health. Emphasis is on the development of understanding of common indications, mechanisms of action, potential beneficial and adverse effects, and on the planning of nursing interventions to maximize the therapeutic effect and to minimize the adverse effects of pharmacologic agents within drug categories.

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 A309 with minimum grade of C and NS A305L with minimum grade of P and NS A306L with minimum grade of P.
Corequisite: NS A310L.
Nursing care of ill and potentially ill adults experiencing medical and surgical conditions.

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 P and NS A306L 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 P.
Corequisite: NS A311L.
Care of the childbearing family during normal and altered states of health. Emphasis on application of the nursing process as a component of critical thinking, as well as the role of the nurse as an educator and client advocates.

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 P.
Corequisite: NS A311.
Grade Mode: Pass/No Pass.
Special Fees.
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 and NS A310L with minimum grade of P.
Corequisite: NS A312L.
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.
Corequisite: NS A312.
Grade Mode: Pass/No Pass.
Special Fees.
Clinical experience to build skills and reinforce student learning in NS 312.

NS A318 Professional and Legal Perspectives in Nursing 3 CR
Contact Hours: 3 + 0
Prerequisites: (NS A310 or concurrent enrollment).
Special Fees.
Designed to explore the development, evolution, and legal implications of professional nursing practice. Content is organized around the many and varied role activities of the professional nurse. Professional and social trends most likely to influence role development of nurses in the future are examined.

NS A319 Research In Nursing 3 CR
Contact Hours: 3 + 0
Prerequisites: NS A310 with minimum grade of C and NS A318 with minimum grade of C.
Registration Restrictions: Prior completion of a statistics course.
Special Fees.
Introduction to research methods in nursing and health care. Emphasis on identification of researchable questions, problem formulation, research design, data collection, and analysis. Exploration of the role of the professional nurse prepared at varying educational levels and on strategies for the application of nursing research findings in clinical practice.

NS A320 Ethical-Legal Implications in Nursing 3 CR
Contact Hours: 3 + 0
Prerequisites: NS A310 with minimum grade of C and NS A318 with minimum grade of C.
Discussion of legal implications inherent in professional nursing practice. Application of ethical decision making processes to common problems encountered in health care settings.

NS A331 Current Issues and Trends in Maternal-Child Nursing 2 CR
Contact Hours: 2 + 0
Registration Restrictions: RN licensure in Alaska; RN choosing prior college credit track.
Special Fees.
Current issues and trends in childrearing and childbearing nursing will be covered. These trends include adolescent pregnancy, genetic and sexual counseling, infertility counseling, cultural aspects of maternal-child nursing, family nursing theory, the utilization of nursing research in maternal-child research, and emerging perinatal technology.

NS A403 Community Nursing I 2 CR
Contact Hours: 2 + 0
Prerequisites: (NS A403L or concurrent enrollment).
Registration Restrictions: Grade of C or better in all required 300-level nursing courses and/or successful completion of all challenge exams.
Theory of community health nursing. Emphasizes theories of health promotion, prevention and protection strategies for individuals, families, and small groups.

NS A403L Community Nursing I Lab 2 CR
Contact Hours: 0 + 6
Prerequisites: (NS A403 or concurrent enrollment).
Registration Restrictions: Grade of C or better in all required 300-level nursing courses and/or successful completion of all challenge exams.
Grade Mode: Pass/No Pass.
Special Fees.
Clinical experience to build skills and reinforce student learning in NS 403.

NS A404 Community Nursing II 1 CR
Contact Hours: 1 + 0
Registration Restrictions: RN students: grade of C or better in NS A403 and grade of P in NS A403L. Basic students: grade of C or better in NS A403, A405, and A415. Grade of P in NS A403l and NS A405L. All students: concurrent enrollment in NS 404L.
Corequisite: NS A404L.
Health promotion and protection as applied to population groups and large aggregates. Emphasis on nursing decisions that identify, intervene, and evaluate population-based health risks. Structure and function of community processes that influence population health care are included.

NS A404L Community Nursing II Lab 2 CR
Contact Hours: 0 + 6
Prerequisites: (NS A404 or concurrent enrollment).
Registration Restrictions: RN students: grade of C or better in NS A403 and grade of P in NS A403L. Basic students: grade of C or better in NS A403, A405, and A415. Grade of P in NS A403L and NS A405L
Grade Mode: Pass/No Pass.
Special Fees.
Clinical experience to build skills and reinforce student learning in NS 404.

NS A405 Psychiatric/Mental Health Nursing 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Grade of C or better in all required 300-level nursing courses.
Corequisite: NS A405L and NS A405S.
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 and NS A405S.
Grade Mode: Pass/No Pass.
Special Fees.
Clinical experience to build skills and reinforce student learning in NS 405.

NS A405S Psychiatric/Mental Health Nursing Seminar 1 CR
Contact Hours: 2 + 0
Registration Restrictions: Grade of C or better in all required 300-level nursing courses.
Corequisite: NS A405 and NS A405L.
Grade Mode: Pass/No Pass.
Seminar discussion of selected psychosocial skills, current issues in psychiatric-mental health nursing.

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 P in NS A403L and NS A405L.
Corequisite: NS A407L.
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 P in NS A403L and NS A405L.
Corequisite: NS A407.
Grade Mode: Pass/No Pass.
Special Fees.
Clinical experience to build skills and reinforce student learning in NS 407.

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 Mode: Pass/No Pass.
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 A410 Psychiatric/Mental Health Nursing II 2 CR
Contact Hours: 2 + 0
Prerequisites: (NS A410L 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.
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 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.
Clinical experience to build skills and reinforce student learning in NS 410.

NS A414 Ethical, Legal and Professional Issues In Nursing 4 CR
Contact Hours: 4 + 0
Registration Restrictions: RN licensure in Alaska.
Special Fees.
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
Registration Restrictions: Grade of C or better in NS A311, A312, and A319 or RN licensure in Alaska.
Special Fees.
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 within health care settings.

NS A416 Concentration in Clinical Nursing .5 CR
Contact Hours: 1 + 0
Registration Restrictions: Grade of C or better in NS A407 and grade of P in NS A407L.
Corequisite: NS A416L.
Grade Mode: Pass/No Pass.
Special Fees.
Integration and synthesis of knowledge and skill competencies basic to professional nursing practice. Emphasis is on adjustments to the realities of practice situations. Clinical sites are selected in relation to individual student interests and learning needs.

NS A416L Concentration in Clinical Nursing Lab 3.5 CR
Contact Hours: 0 + 10.5
Prerequisites: NS A404 and NS A404L and NS A407 and NS A407L.
Corequisite: NS A416.
Grade Mode: Pass/No Pass.
Clinical experience to build skills and reinforce student learning in NS A416.

NS A417 Management in Nursing 3 CR
Contact Hours: 3 + 0
Registration Restrictions: RN licensure in Alaska.
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.

NS A421 Sexual Assault Response Team Certification 4 CR
Contact Hours: 3 + 3
Registration Restrictions: Current RN licensure in State of Alaska.
Development of advanced knowledge and skills required for nurses to function effectively as members of a multi-disciplinary Sexual Assault Response Team (SART). Covers roles of team members, team building strategies, development of SART procedures and protocols, interaction with judicial system, skill development in performing medical-legal examination and collecting forensic evidence, sex offender profiling, identification of community resources, and exploration of cultural issues.

NS A422 Nursing Interventions for the Critically Ill Adult 2-3 CR
Contact Hours: 2 + 0-3
Registration Restrictions: Grade of C or better in all required 300-level nursing courses.
Special Fees.
Emphasizes the specific nursing care needs of critically ill adults and the role of the critical care nurse. Case studies are used to assist students to apply the nursing process to the care of critically ill adults to promote movement of the client from critical illness to recovery and independence. Clinical experiences consist of participant observation in a variety of critical care settings.

NS A423 Transcultural Nursing 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Grade of C or better in NS A310 or licensure in 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.

NS A424 Issues In Women's Health 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Grade of C or better in NS A311 or RN licensure in 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.

NS A426 Critical Care Concepts in Acute Care Settings 3 CR
Contact Hours: 3 + 0
Registration Restrictions: RN licensure in state of Alaska.
Prepares experienced, registered nurses for entry-level practice in critical care and provides opportunities to analyze past and current clinical situations and adapt concepts used in critical care settings to their current practice. Emphasis on developing an ability to predict and project events for clients who are either critically ill or have the potential to develop a critical illness. Builds on sound assessment skills and broad experiences of competent registered nurses.

NS A427 Care of Victims of Family Violence 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Grade of C or better in NS A311 or NS A312, or RN licensure in Alaska.
Special Fees.
Overview of family violence, including medical, physical, and emotional abuse and neglect of target at-risk groups. Focus is on developing an interdisciplinary perspective for understanding causation and treatment issues. Dynamics of the problem are explored from the perspectives of various theorists. Emphasis is on the development of increased personal self-awareness to the complexity of feelings and issues in family violence and on the relationship of nursing to social work, justice, and corrections in the context of domestic violence programs.

NS A428 Nursing the Chemically Dependent Client 2-3 CR
Contact Hours: 2 + 0-3
Registration Restrictions: Grade of C or better in NS A310 or RN licensure in Alaska.
In-depth study of the psychopharmacologic and sociocultural effects of chemical dependency. Students learn to utilize the nursing process to design strategies for the nursing management of chemically dependent client systems. Clinical experiences include participant observation in a variety of settings where chemically dependent clients are commonly encountered.

NS A429 Perioperative Nursing 3 CR
Contact Hours: 1.5 + 4.5
Registration Restrictions: Grade of C or better in NS A310 or RN licensure in Alaska.
Special Fees.
Introduction to the operating room, its origin and purpose, including functions of the operating room team members. Covers the perioperative nursing role as it relates to a client undergoing surgery. The nursing process is utilized as a basis for planning, implementing, and evaluating individualized care.

NS A430 Rural Health Care 3 CR
Contact Hours: 2 + 3
Registration Restrictions: Corequisite NS A310 or RN licensure in 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.

NS A431 Human Sexuality in Health and Illness 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Grade of C or better in NS A311 or NS licensure in Alaska.
Explores physiological, psychological and social nature of human sexuality and implications for nursing profession. Emphasizes individual and group sexual behavior. Explores impact of illness on sexuality and role of professional nurse.

NS A432 Political Action in Nursing and Health Care 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Grade of C or better in NS A306 or RN licensure in Alaska.
An exploration of the political process on the local, state, and national levels as it relates to nursing practice and health care issues. Includes analysis of political strategies that can be applied in professional nursing practice to support effectiveness in meeting client advocacy responsibilities.

NS A433 Health Education: Theory and Practice 3 CR
Contact Hours: 3 + 0
Prerequisites: NS A306 with minimum grade of C.
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.

NS A434 Special Considerations in the Health Care of the Elderly 3 CR
Contact Hours: 3 + 0
Prerequisites: NS A310 with minimum grade of C.
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 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior standing in the department or faculty permission.
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 and in-hospital support services utilization.

NS A436 Home Health Nursing 3 CR
Contact Hours: 2 + 3
Registration Restrictions: Grade of C or better in all required 300-level nursing courses.
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 3 CR
Contact Hours: 3 + 0
Registration Restrictions: NS A415 or RN licensure in Alaska.
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 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Grade of C or better in all required NS 300 level clinical courses or RN licensure in State of Alaska.
The role of the nurse in interdisciplinary practice of managed care to include case management and home health environments. Issues to include ethics, economics, accountability, and health care reforms. The historical and social evolution of managed care, including regulatory, legislative, financial, and sociocultural considerations. Practice in computer applications for health care information systems.

NS A610 Pharmacology for Primary Care 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Current Licensure to practice as a Registered Nurse in the State of Alaska.
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 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Grade of C or better in undergraduate research course and basic statistics course.
Special Fees.
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. Seminar expedites planning of master's degree research in nursing.

NS A621 Nursing Theory 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Integration of theory from a variety of disciplines to explain human responses in health and illness. Theories are analyzed for adequacy as they relate to conceptualization, measurement and application. Theories to be covered include selected theories about adaptation, coping, promotion, prevention and change.

NS A622 Family Theory for Advanced Nursing Practice 3 CR
Contact Hours: 3 + 0
Registration Restrictions: BS in nursing and faculty permission.
Special Fees.

Development of systemic, structural, and cross-cultural family theory underlying advanced nursing practice across specializations to provide support to the core curricula of the graduate program. Addresses the family as a primary social group in process of change and adaptation to both health and social forces. Emphasis will be on assessment and planning interventions for the family as the unit of health care.

NS A623 Transcultural Nursing in a Multicultural World 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Current RN Licensure in State of Alaska.

Critique of transcultural nursing concepts and theory for utilization in the provision of culturally sensitive nursing care and health education with individuals, families, and groups from diverse cultural populations within society. Cultural beliefs and values that influence definitions of behaviors related to health and illness will be explored. The effect of culture on the acquisition and integration of new knowledge to facilitate movement toward a health promoting lifestyle will be emphasized. Additional theoretical focuses from the social sciences, particularly anthropology, will be analyzed for their application in a culturally sensitive approach to nursing care.

NS A624 Qualitative Research in Nursing 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.

Focus on qualitative approach in gaining nursing knowledge. Broad range of topics including case study, content analysis, participant and nonparticipant observation, open-ended interviews, document study, and an introduction to "Grounded theory" methods. Students will be required to select one method for in-depth exploration.

NS A625 Biostatistics for Health Professionals 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Undergraduate statistics course with grade of C or better and graduate standing.
Crosslisted with: HS A625.

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 1 CR
Contact Hours: 0 + 3
Prerequisites: (NS A625 or concurrent enrollment).
Registration Restrictions: Graduate Standing.
Grade Mode: Pass/No Pass.
Crosslisted with: HS A625L.
Special Fees.

Elective computer laboratory to teach statistical computer packages to use in performing statistical data analysis.

NS A626 Principles of Epidemiology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.

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.

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 A650 Advanced Community Health Nursing I 4 CR
Contact Hours: 2 + 8
Registration Restrictions: Graduate standing.

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].

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.

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.

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.

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
Registration Restrictions: Admission into FNP track. Basic physical assessment skills. Knowledge of basic anatomy/physiology, pharmacology and growth and development. Current CPR certification. Individual malpractice insurance policy.
Special Fees.

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 4 CR
Contact Hours: 2 + 8
Prerequisites: NS A660.

Builds on and allows for utilization of advanced practice skills learned in NS 660. Assessment, diagnosis and treatment of clients with disorders of the reproductive system, respiratory tract and the musculoskeletal system. Includes management of the obstetrical client. Emphasis on care of clients through the life span.

NS A662 Family Nurse Practitioner III 5 CR
Contact Hours: 2 + 10
Prerequisites: NS A661.
Special Fees.
Continued preparation for advanced nursing practice. Assessment, diagnosis and treatment or referral of clients with disorders of the cardiovascular, endocrine, gastrointestinal, integumentary, and neurological systems. Recognition and management of severe infections and chronic disease. Emphasis on care of clients through the life span.

NS A663 Family Nurse Practitioner, Clinical Concentration 3 CR
Contact Hours: .5 + 10
Prerequisites: NS A662.
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 3 CR
Contact Hours: 2 + 4
Registration Restrictions: Graduate standing and faculty permission.
Special Fees.
Focuses on the theory, research and clinical approaches related to the psychosocial health of individuals and groups. Current trends and issues in the treatment of psychiatric-mental health problems are discussed in the context of influence on practice. Particular attention is given to interpersonal dynamics and behavior as basic processes by which assessment and interventions occur. Clinical experiences provide students the opportunity to apply and test psychosocial theory and therapeutics.

NS A671 Advanced Psychiatric/Mental Health Nursing II 3 CR
Contact Hours: 2 + 4
Registration Restrictions: Graduate standing and faculty permission.
Focuses on the theory, research and clinical literature related to the psychosocial health of families. Current trends and issues in family research and clinical applications are discussed in the context of the influence of psychiatric-mental health nursing practice. Particular attention is given to family structure and processes as a basis for assessment and intervention. Clinical experiences provide students opportunity to apply and test family theory and therapeutics.

NS A672 Advanced Psychiatric/Mental Health Nursing III 3/6 CR
Contact Hours: 3 + 9
Registration Restrictions: Faculty permission and graduate standing.
Current trends and approaches to the organization and delivery of mental health services are analyzed. The professional literature is critically reviewed, emphasizing etiological factors, planning, and decision making regarding mental health problems and personnel. Characteristics of the sociocultural environment are examined giving particular attention to major influences on mental health conditions. Current research findings are evaluated for purposes of assessment, planning, and implementation of services for high risk, multicultural, and under served populations. The role of the nurse is analyzed and developed through clinical experience.

NS A674 Topics in Advanced Psychiatric/Mental Health Nursing 4 CR
Contact Hours: 1 + 9
Registration Restrictions: Faculty permission and graduate standing.
Special Note: May be taken once for credit.
Development of theory and clinical skills related to advanced psychiatric/mental health nursing with individuals, groups, and families with selected psychiatric/mental health needs.

NS A675 Biophysical Perspectives of Psychosocial Disabilities 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Graduate Standing.
Analysis of biophysical processes influencing psychosocial behavior in response to endogenous and exogenous stimuli. Research and theory of neuroendocrine mechanisms in psychosocial disabilities are examined. Critical analysis of nursing therapeutics and biophysical therapeutic modalities used in modification of 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.
Comprehensive overview of the evolution and major components of the health service system in the united states. System performance, directions being taken by major providers, characteristics of resources (financial, personnel, and technological), are discussed. Dimensions of policy making in health are also discussed.

NS A682 Administrative Services 3 CR
Contact Hours: 3 + 0
Prerequisites: (NS A681 or concurrent enrollment).
Elements of administrative processes within the health care system. Personal and interpersonal competencies and maximization of resource allocation to optimize effective leadership and management are emphasized.

NS A682L Administrative Services Field Work 1 CR
Contact Hours: 0 + 3
Prerequisites: (NS A682 or concurrent enrollment).
Registration Restrictions: RN licensure in Alaska.
Grade Mode: Pass/No Pass.
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].
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.
Under the guidance of the thesis advisor and in conjunction with thesis committee, student develops, refines and implements a research proposal.

NURSING - NURS

http://www.son.uaa.alaska.edu/school_of_nursing
Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 110, 786-4582

NURS A055 Health Care Assistant 3 CR
Contact Hours: 8 + 8
Registration Restrictions: High school diploma, GED/life skills equivalent. Faculty permission required.
Special Fees.
Five week course; trains health care assistants in basic skills necessary to assist nurses and to be efficient health care team members. Students are supervised in the multi-sensory laboratory to practice the basic nursing assistant skills.

NURS A065 Health Care Assistant Practicum 2 CR
Contact Hours: 8 + 8
Prerequisites: NURS A055.
Registration Restrictions: Faculty permission.
Special Fees.
Special Note: This course is conducted in three weeks. A certificate is awarded upon completion.
Three week course; provides health care assistants with theory and clinical experiences to assist nurses in an acute care, long-term, or home health facility.

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.
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.
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).
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.
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.
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.

NURS A180 Basic Nursing Pharmacology 3 CR
Contact Hours: 3 + 0
Prerequisites: (NURS A125 with minimum grade of C or concurrent enrollment) and (NURS A125L with minimum grade of C or concurrent enrollment) and (BIOL A112 with minimum grade of C or concurrent enrollment) and (BIOL A240 with minimum grade of C or concurrent enrollment) and ENGL A111 with minimum grade of C and PSY A150 with minimum grade of C and BIOL A111 with minimum grade of C and NURS A120 with minimum grade of C.
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.
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.
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.
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.
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.
Provides laboratory and clinical experiences to reinforce student learning in NURS A222.

NURS A225 Adult Nursing II 3 CR
Contact Hours: 3 + 0
Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and ENGL A111 with minimum grade of C and [ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C] and BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and PSY A150 with minimum grade of C and DN A203 with minimum grade of C.
Registration Restrictions: Complete one social science elective.
Corequisite: NURS A225L, NURS A250, NURS A250L and NURS A255.
Builds upon prior theoretical content and psychomotor skills from previous nursing courses. The nursing process continues to be used as students expand their knowledge of pathophysiology and provide care for adult medical-surgical patients with acute, complex and life-threatening disorders.

NURS A225L Adult Nursing II Lab 3 CR
Contact Hours: 0 + 9
Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and ENGL A111 with minimum grade of C and [ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C] and BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and PSY A150 with minimum grade of C and DN A203 with minimum grade of C.
Registration Restrictions: Complete one social science elective.
Corequisite: NURS A225, NURS A250, NURS A250L and NURS A255.
Grade Mode: Pass/No Pass.
Provides laboratory and clinical experience to reinforce student learning in NURS 225.

NURS A250 Psychiatric Nursing 2 CR
Contact Hours: 2 + 0
Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and ENGL A111 with minimum grade of C and [ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C] and BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and PSY A150 with minimum grade of C and DN A203 with minimum grade of C.
Registration Restrictions: Complete one social science elective.
Corequisite: NURS A225, NURS A225L, NURS A250L and NURS A255.

Designed to teach psychodynamics of the major mental illnesses and principles of psychiatric nursing. Emphasis placed on application of the nursing process utilizing nursing principles to care for inpatients at all developmental levels. Students adapt communication skills to facilitate therapeutic interventions with patients experiencing mental illness.

NURS A250L Psychiatric Nursing Lab 2 CR
Contact Hours: 0 + 6
Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and ENGL A111 with minimum grade of C and [ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C] and BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and BIOL A240 with minimum grade of C and PSY A150 with minimum grade of C and DN A203 with minimum grade of C.
Registration Restrictions: Complete one social science elective.
Corequisite: NURS A225, NURS A225L, NURS A250 and NURS A255.
Grade Mode: Pass/No Pass.

Provides laboratory and clinical experiences to reinforce student learning in NURS 250.

NURS A255 Staff Nurse: Legal, Ethical, and Organizational Issues 1 CR
Contact Hours: 2 + 0
Prerequisites: NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and DN A203 with minimum grade of C and (NURS A225 with minimum grade of C or concurrent enrollment) and (NURS A225L with minimum grade of C or concurrent enrollment) and (NURS A250 with minimum grade of C or concurrent enrollment) and (NURS A250L with minimum grade of C or concurrent enrollment).

Introductory seminar on application of the nursing process to legal, ethical, and organizational dilemmas encountered in daily nursing practice. Includes consideration of the role of staff nurse within the organization; students develop knowledge necessary to function effectively in the staff nurse role as a member of the nursing and health care teams. Legal limits of nursing practice and trends in the regulation of nursing practice are discussed.

NURS A295 Intensive Clinical Practicum 2 CR
Contact Hours: 4 + 64
Prerequisites: NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A221 with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C.
Registration Restrictions: Good physical health.
Grade Mode: Pass/No Pass.
Special 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.

PUBLIC ADMINISTRATION - PADM

http://www.scob.alaska.edu/DEGREES/mpa.html
Offered through the College of Business & Public Policy
Consortium Building (LIB), Room 206, 786-1770

PADM A601 Public Administration in the Contemporary Society 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.

Introduction to the field of public administration. The course deals with the scope, nature, history, current context, and basic conceptual tools in the study of public administration. Topics covered include social, economic, and political environments of public administration, bureaucratic politics, power and authority, law, ethics and administration, basic models, and comparative administration.

PADM A602 Seminar in Public Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.

Introduction to basic management skills as well as concepts, approaches, and issues in organization structure, human resources administration, and budgeting and finance administration.

PADM A603 Management Analysis 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.

Introduction to organizational and systems analysis, systems theory, information systems, procedure analysis, management planning, and management problem solving.

PADM A604 Research Methods in Administration 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Introductory course in statistics.

Methods and techniques of empirical research. Scientific method, design of research, data collection and analysis methods, survey sampling, and statistical analysis including use of computers in data analysis.

PADM A606 The Policymaking Process 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Special Fees.

Examination of the nature of public policy and the policymaking process. Considers the policy environment, levels and types of policy, models of the policy process, the uses of social science research in policymaking, and the role and limits of public participation. Alaska and national cases are used to illustrate basic concepts and issues.

PADM A610 Organizational Theory and Behavior 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

Role of the administrator, theories of complex organizations and their administration, administrative leadership, and ethics. A detailed study of organized behavior, including concepts of leadership style, authority, and organizational change.

PADM A617 Public Sector Productivity 3 CR
Contact Hours: 3 + 0
Prerequisites: PADM A610.

Application of technology as well as behavioral and organizational theory to improve productivity in public organizations. Special attention will be given to problems of measurement.

PADM A618 Public Accountability, Ethics and Law 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.

The challenges of maintaining a responsive bureaucracy subject to democratic controls; implications of ethical standards and administrative due process of law; and selected case studies in government and non-profit administration.

PADM A620 Internship in Public Administration/Policy 3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Faculty permission.

Applied work experience in public administration or policy analysis. The course consists of the equivalent of three months of full-time work in an approved state, federal, local, or private agency, under the supervision of a senior agency employee in cooperation with a faculty advisor. An internship journal and a final internship report are required.

PADM A624 Human Resources Administration 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
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.
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 Quantitative Approaches to Policy Analysis 3 CR
Contact Hours: 3 + 2
Prerequisites: PADM A604.
Special Note: Student is expected to utilize the computer lab for two hours per week. Lab fee optional, see instructor.
Applications of regression analysis and related techniques to a broad range of policy issues. The course focuses on the use of parametric statistics as the basis for policy decisions, using Alaska data to test policy-oriented hypotheses.

PADM A634 Resource Policy Administration 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Examination of the politics and economics of natural resource policy and administration. Emphasis on current national issues and Alaska cases. Focuses on the uses of basic political science and economic concepts in analyzing resource policy issues and alternative policy objectives, means, and consequences in resource policy administration.

PADM A635 Policy Analysis and Program Evaluation 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Critical examination and application of approaches to policy analysis and program evaluation for the public sector.

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 Administrative Policy Seminar 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission, based on substantial completion of MPA program. The core comprehensive exam must be passed before the student may enroll in the capstone course.
Capstone course for master of public administration program. Includes in-depth discussions of case studies illustrating problems of organizational change, decision making, problem solving, and the interrelated processes of policy formulation, implementation, and evaluation. Emphasis on student participation, including presentation of a major policy or administrative report.

PADM A671 Selected Topics in Public Administration 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Faculty permission.
Analysis of selected public administration issues. Topics will be announced in the published class schedule.

PADM A699 Thesis 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Faculty permission.
Under direction of faculty advisor and thesis committee, student will design and complete a research project.

PARALEGAL - 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
Introduces legal processes in democratic society. Includes skills for conducting basic legal research.

PARL A215 Paralegal Studies 3 CR
Contact Hours: 3 + 0
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.
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.
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.
Introduction to procedural concepts of civil litigation with an emphasis on jurisdiction, venue, service of process, parties, pleading and discovery, trial processes, appellate review, and the common law doctrine of res judicata. Types of pleadings in civil actions, including complaints, answer and reply, joinder of parties and claims, class actions, discovery, motion practice, trial, and appeal.

PARL A256 Legal Research I 3 CR
Contact Hours: 3 + 0
Prerequisites: [PARL A101 or JUST A110] and ENGL A111 with minimum grade of B and [ENGL A211 with minimum grade of B or ENGL A212 with minimum grade of B or ENGL A213 with minimum grade of B or ENGL A311 with minimum grade of B or ENGL A312 with minimum grade of B or ENGL A414 with minimum grade of B].
Special Fees.
Special Note: Strong writing background required.
Intensive introduction to legal research tools and techniques, including retrieval of case and statutory authority, use of encyclopedias, legal periodicals, treatises and other secondary authority, proper case citation form, use of computerized research and drafting of legal memoranda.

PARL A352 Substantive Criminal Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110 or PARL A101.
Crosslisted with: JUST A352.
Study of elements, purposes, and functions of substantive criminal law. Includes casebook study of general law of crimes and defenses with concentration on Alaska cases and statutes in Alaska Criminal Code. Historical and philosophical concepts are covered.

PARL A354 Criminal Procedure 3 CR
Contact Hours: 3 + 0
Prerequisites: PARL A101 or JUST A110.
Crosslisted with: JUST A354.
Emphasis upon legal limitations of police and right of people to be secure from government under protection of federal and Alaska constitutions. Concentration on laws of arrest, search and seizure, wiretapping, electronic surveillance, and exclusionary rule. Interrogations and confessions, lineups and other pretrial identification procedures, right to counsel, trial by jury, entrapment, and double jeopardy. Study of cases decided by U.S. and Alaska Supreme Courts, along with applicable Alaska Statutes and Alaska Rules of Criminal Procedure.

PARL A362 Commercial Law 3 CR
Contact Hours: 3 + 0
Prerequisites: PARL A101.
Commercial law constitutes a study of the paralegal's role in a commercial practice with emphasis on such topics as contracts, remedies, bankruptcy, business formation and organization.

PARL A375 Litigation 3 CR
Contact Hours: 3 + 0
Prerequisites: PARL A238 or PARL A354.
Registration Restrictions: PARL A256 recommended.
Special Fees.
Forms of dispute settlement with emphasis on negotiative processes, 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: PARL A256 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 Note: Requires knowledge of basic legal research techniques and the uniform system of citation, and use of computerized legal research.
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 A470 Law of Government Regulation 3 CR
Contact Hours: 3 + 0
Prerequisites: PARL A101.
Administrative law and procedure in the context of federal, state and local agencies operating in Alaska. Includes consideration of unfair competition and anti-trust law from the perspective of the businessman and consumer.

PETROLEUM ENGINEERING - PETE

http://www.engr.uaa.alaska.edu
Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900

PETE A101 Introduction to the Petroleum Industry 3 CR
Contact Hours: 3 + 0
Survey of the petroleum industry from exploration through refining.

PETE A301 Petroleum Drilling Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: PHYS A211 and PHYS A211L and MATH A201.
Fundamental principles of rotary oil well drilling and the engineering principles used in actual field practice. Includes field trip to observe drilling rig and related support equipment.

PETE A302 Oil Well Design and Production 3 CR
Contact Hours: 3 + 0
Prerequisites: PHYS A211 and PHYS A211L and MATH A201.
Fundamental principles underlying the analysis, design and engineering of petroleum production systems.

PETE A304 Petroleum Reservoir Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A201 and PHYS A212 and PHYS A212L.
Quantitative study of behavior prediction of volumetric and water drive oil and gas reservoirs by material balance.

PETE A630 Waterflooding 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Background knowledge in petroleum reservoir engineering.
Advanced treatment of fundamental concepts and procedures used in the design of waterflooding processes in petroleum reservoirs.

PETE A661 Advanced Well Testing 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Background knowledge in petroleum reservoir engineering.
Equations for transient flow of single phase fluids through porous media, extension to multiphase flow, isolated and developed multiwell flow, conventional draw-down and build-up analysis, log-log type curve analysis, interference testing, fractured wells, pulse tests, and drill stem tests.

PETROLEUM TECHNOLOGY - PETR

Offered through Kenai Peninsula College
34820 College Dr., Soldotna, Alaska, 99669,(907) 262-0300.

PETR A105 Petroleum Science I 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A055.
Offered only at Kenai Peninsula College.
Surveys physical and chemical properties of hydrocarbon gases and liquids. Introduces fluid flow processing including head, friction, and fluid power. Introduces basic unit processes such as two-phase and three-phase separation.

PETR A106 Petroleum Science II 3 CR
Contact Hours: 3 + 0
Prerequisites: PETR A105 and [MATH A105 or MATH A101].
Offered only at Offered at Kenai Peninsula College only..
Basic heat and material as balances encountered in surface processing operations. Applies hydrocarbon properties to specific process material balances. Operation of gas-oil separators, gas dehydration equipment, fired heaters and boilers, and cryogenic natural gas processing.

PETR A120 Surface Oil Field Equipment I 3 CR
Contact Hours: 3 + 0
Offered only at Kenai Peninsula College.
Specializes in oil field equipment and terminology for drilling-related activities.

PETR A121 Surface Oil Field Equipment II 3 CR
Contact Hours: 3 + 0
Prerequisites: PETR A120.
Offered only at Kenai Peninsula College.
Continuation of PETR A120. Emphasizes post-drilling operations such as well stimulation fundamentals, well logging and wireline procedures, knowledge of waterflood and gas lift procedures and equipment. Introduces fishing and directional drilling.

PETR A140 Industrial Process Instrumentation I 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A054.
Registration Restrictions: Reading Placement Test.
Offered only at Kenai Peninsula College.
Covers physics of pressure, temperature, level and flow; mechanical and electrical aspects of instruments used to control dynamics of processes. Also covers dynamics of automatic control including proportional control, automatic reset, derivative action and integral timing.

PETR A142 Process Instrumentation for Engineers 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Offered only at Kenai Peninsula College.
Process instrumentation for the mechanical or chemical engineer who desires exposure to the functions of automatic control systems in the modern dynamic process plant. A familiarization in today's industry.

PETR A144 Industrial Process Instrumentation II 3 CR
Contact Hours: 1 + 6
Prerequisites: PETR A140.
Offered only at Kenai Peninsula College.
Continuation of PETR A140, but places emphasis on repair, maintenance, and calibration, as well as hands-on physical training on a wide variety of process instruments. Completion of many remaining chapters from PETR A140 textbook pertinent to related classes.

PETR A146 Process Control Loop Tuning 1 CR
Contact Hours: .5 + 1
Registration Restrictions: Two years of industrial experience.
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Provides hands-on training for operators and technicians in the matching of controller performance to process behavior.

PETR A150 Mechanical Drafting for the Petroleum Industry 3 CR
Contact Hours: 2 + 2
Offered only at Kenai Peninsula College.
Introduces sketching, and mechanical and process piping drafting. Emphasizes process piping symbols and flow systems used in petrochemical industry.

PETR A155 Blueprint Reading 3 CR
Contact Hours: 3 + 0
Offered only at Kenai Peninsula College.
Covers basics of reading machine, welding, architectural, instrumentation, hydraulic, and process flow drawings. Includes freehand sketching of simple mechanical and flow diagrams.

PETR A170 Fundamentals of Mechanics 3 CR
Contact Hours: 2 + 2
Offered only at Kenai Peninsula College.
Introduces basic mechanical maintenance skills. Includes general knowledge with shop practice of bearings, drive components, lubrication, rigging, and internal combustion engines.

PETR A227 Logging And Log Analysis 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Offered only at Kenai Peninsula College.
Provides job skills in the area of well logging and log analysis. Includes logging tools, methods, and procedures for running tools, the basic physics of logging tools, and data acquisition. Covers elementary analysis of both open and cased hole logs.

PETR A228 Petroleum Reservoir Engineering I 3 CR
Contact Hours: 3 + 0
Prerequisites: PETR A106 and PETR A120.
Registration Restrictions: Faculty permission.
Offered only at Kenai Peninsula College.
Introduces properties of petroleum reservoirs, associated rock structure, traps, fluid migrations, porosity, permeability, fluid saturations, draw-downs, recovery schemes, reservoir drives, completion calculations, recovery predictions, abandonments, mapping, and deviation surveys.

PETR A229 Production Engineering 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Offered only at Kenai Peninsula College.
Continuation of PETR A228. Covers analysis and remedial work performed throughout life of hydrocarbon reservoirs, artificial pressure maintenance, and waterflood.

PETR A230 Practical Distillation 3 CR
Contact Hours: 3 + 0
Prerequisites: PETR A105 and PETR A140.
Offered only at Kenai Peninsula College.
Practical approach to operation of grass roots distillation operation patterned after a small refinery; includes tower operation and process of fractionating crude oil.

PETR A231 Production Plant Operations 3 CR
Contact Hours: 2 + 3
Prerequisites: PETR A105 and PETR A140.
Offered only at Kenai Peninsula College.
Introduces operating equipment, and start-up and shut-down procedures using process simulation. Requires interpretation of typical flow sheets.

PETR A235 Petroleum Laboratory Standards 3 CR
Contact Hours: 2 + 3
Prerequisites: PETR A105.
Offered only at Kenai Peninsula College.
Students will perform standard water analysis according to API RP-45, and associated standards, specific waterflood analysis for water quality and scale formation, physical petroleum analysis relating to quality control for sales purposes, environmental parameter monitoring and recording, and instrumental analysis as time permits.

PETR A240 Industrial Process Instrumentation III 3 CR
Contact Hours: 3 + 0
Prerequisites: PETR A144.
Offered only at Kenai Peninsula College.
Study of methods, installation, and identification of proper instruments for use with particular industrial processes, and operation of instrumentation under live load conditions through use of sophisticated process simulators.

PETR A244 Industrial Process Instrumentation IV 3 CR
Contact Hours: 3 + 0
Prerequisites: PETR A240.
Offered only at Kenai Peninsula College.
Explores techniques used in designing and developing control loops. Control loop engineering and developments of loops for maximum efficiency and energy control. Program will develop basic engineering skills.

PETR A270 Industrial Mechanical Equipment 3 CR
Contact Hours: 2 + 2
Offered only at Kenai Peninsula College.
Introduces basics of piping systems and components, pump design and alignment, compressors and pneumatic motors, steam generation and steam turbines, hydraulic components and circuits, and gas combustion turbines. Includes hands-on disassembly and assembly of pumps, valves, compressors, and turbines. Also assembling of hydraulic circuits and associated problems.

PHILOSOPHY - PHIL

Offered through the College of Arts and Sciences
Classroom Building K (K), Room 219, 786-4455

PHIL A101 Introduction to Logic 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities
Analyzes argumentation and informal fallacies; introduces deductive logic, and examines inductive evidence in scientific and practical reasoning.

PHIL A201 Introduction to Philosophy 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities
Introduces works of influential thinkers, both ancient and modern, in the Western philosophical tradition. Emphasizes central problems of knowledge, reality, and good and evil.

PHIL A211 History of Philosophy I 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities
Introduction to the great thinkers of the Greek, Latin, Medieval, and Renaissance periods in Western civilization. Comparative examination of cosmological, religious, ethical, political, and scientific ideas which shaped each of these epochs.

PHIL A212 History of Philosophy II 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities
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
An introduction to the great moral thinkers of Western Civilization and the use of their ethical systems in an attempt to resolve contemporary issues such as abortion, euthanasia, equal rights, civil disobedience, and professional ethics.

PHIL A302 Biomedical Ethics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior standing.
An in-depth exploration of current bioethical issues affecting the delivery of health care services. Theories of ethics and related principles are explored as a basis for professional decision-making and public policy determination. The focus of the course is the process of ethical inquiry and its relevance for contemporary health practices, research and education.

PHIL 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.
Stacked with: PHIL A313B.
Special Note: One credit requires regular attendance and minimal weekly assignments. Does not satisfy the humanities GER.
Survey of philosophical-religious traditions of the Far East: Confucian, Taoist, Buddhist (including Zen), and Hindu.

PHIL A313B Eastern Philosophy and Religion 3 CR
Contact Hours: 3 + 0
Stacked with: PHIL A313A.
Course Attributes: GER Humanities
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
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://local.uaa.alaska.edu/~afjtp/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
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 AMT 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.

PHYS A123 Basic Physics I 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A105.
Registration Restrictions: High school trigonometry.
Course Attributes: GER Natural Sciences
Non-calculus introduction to mechanics, fluids, and thermodynamics. Emphasizes motion, forces, gravitation, fluid motion, and laws of thermodynamics. Limited emphasis on historical development of physics.

PHYS A123L Basic Physics I Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: MATH A105 and (PHYS A123 or concurrent enrollment).
Registration Restrictions: High school trigonometry.
Course Attributes: GER Natural Sciences
Special Fees.
Introductory physics laboratory, with experiments in mechanics, fluids, and thermodynamics.

PHYS A124 Basic Physics II 3 CR
Contact Hours: 3 + 0
Prerequisites: PHYS A123 with minimum grade of C.
Course Attributes: GER Natural Sciences
Non-calculus introduction to electricity and magnetism, waves, optics, light, some modern and nuclear physics. Limited emphasis on historical development of physics.

PHYS A124L Basic Physics II Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: PHYS A123 with minimum grade of C and PHYS A123L with minimum grade of C and (PHYS A124 or concurrent enrollment).
Course Attributes: GER Natural Sciences
Special Fees.
Introductory physics laboratory, with experiments in thermodynamics, electricity and magnetism, waves, and optics.

PHYS A211 General Physics I 3 CR
Contact Hours: 3 + 0
Prerequisites: PHYS A123 and MATH A200 and (MATH A201 or concurrent enrollment).
Course Attributes: GER Natural Sciences
Calculus-based course covering classical mechanics (statics and dynamics of translational and rotational motion), fluids, elasticity, and introduction to thermodynamics.

PHYS A211L General Physics I Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: (PHYS A211 or concurrent enrollment).
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 Recitation 1 CR
Contact Hours: 0 + 1.5
Prerequisites: (PHYS A211 or concurrent enrollment).
Special Note: This course does not meet General Education Requirements.
Optional course: student oral presentation of problem solutions for material covered in PHYS A211.

PHYS A212 General Physics II 3 CR
Contact Hours: 3 + 0
Prerequisites: PHYS A124 and PHYS A211 and MATH A201 and (MATH A202 or concurrent enrollment).
Course Attributes: GER Natural Sciences
Calculus-based course emphasizing basic electromagnetic theory, waves, fundamentals of geometric and physical optics, and light.

PHYS A212L General Physics II Laboratory 1 CR
Contact Hours: 0 + 3
Prerequisites: (PHYS A212 or concurrent enrollment).
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 Recitation 1 CR
Contact Hours: 0 + 1.5
Prerequisites: (PHYS A212 or concurrent enrollment).
Special Note: This course does not meet General Education Requirements.
Optional course: student oral presentation of problem solutions for material covered in PHYS A212.

PHYS A303 Modern Physics 3 CR
Contact Hours: 3 + 0
Prerequisites: PHYS A212 and MATH A302.
Introduces modern physics, including special relativity, atomic and molecular physics, electromagnetic radiation, solid-state physics, elementary particles, simple transport theory, kinetic theory, and concepts of quantum mechanics.

PHYS A311 Mechanics I 4 CR
Contact Hours: 4 + 0
Prerequisites: PHYS A212.
Newtonian mechanics, analysis of harmonic oscillators, kinematics and dynamics, static and moving coordinate systems, central forces, and applications.

PHYS A312 Mechanics II 4 CR
Contact Hours: 4 + 0
Prerequisites: PHYS A311.
Systems of particles, rigid bodies, statics, fluid dynamics, introduction to tensors and Lagrangian mechanics.

PHYS A313 Thermodynamics and Statistical Physics 3 CR
Contact Hours: 3 + 0
Prerequisites: PHYS A212 and MATH A202.
Registration Restrictions: MATH A302 strongly recommended.
Thermodynamic systems, equations of state, the laws of thermodynamics, changes of phase, thermodynamics of reactions, kinetic theory, and introduction to statistical mechanics.

PHYS A410 Electricity and Magnetism 3 CR
Contact Hours: 3 + 0
Prerequisites: PHYS A212 and MATH A202.
Registration Restrictions: MATH A302 and A314 strongly recommended.
Covers static electric fields in free space and material media; steady current systems and associated magnetic effects. Also includes magnetostatics, Maxwell's Equations, radiation, and a discussion of the implications of relativity theory.

PARAMEDIC TECHNOLOGY - PMED

Offered through the Community & Technical College
Allied Health Sciences (AHS), Room 158, 786-6476

PMED A101 Paramedicine I 8 CR
Contact Hours: 7 + 2
Prerequisites: (PMED A195A or concurrent enrollment).
Registration Restrictions: Acceptance in the Paramedical Technology Program.
Introduces EMS, roles and responsibilities. Emphasizes anatomy and physiology of the circulatory, respiratory, and nervous systems and related rescue procedures.

PMED A105 Paramedicine II 8 CR
Contact Hours: 6 + 4
Prerequisites: PMED A101 and (PMED A195B or concurrent enrollment).
Covers cardiac rhythms, pharmacology, and Advanced Cardiac Life Support.

PMED A120 Paramedicine III 9 CR
Contact Hours: 4 + 10
Prerequisites: PMED A105 and (PMED A195C or concurrent enrollment).
Covers general patient assessment, assessment and management of medical emergencies, and medevac escort.

PMED A195A Clinical Rotation I 4 CR
Contact Hours: 0 + 8
Prerequisites: (PMED A101 or concurrent enrollment).
Grade Mode: Pass/No Pass.
Perform paramedic skills in hospital departments of: emergency, intensive care, and surgery.

PMED A195B Clinical Rotation II 4 CR
Contact Hours: 0 + 8
Prerequisites: (PMED A105 or concurrent enrollment).
Grade Mode: Pass/No Pass.
Perform paramedic skills in hospital departments of: emergency, intensive care, surgery, labor and delivery, pediatrics, and psychiatry.

PMED A195C Clinical Rotation III 3 CR
Contact Hours: 0 + 6
Prerequisites: (PMED A120 or concurrent enrollment).
Grade Mode: Pass/No Pass.
Perform paramedic skills in hospital departments of: emergency, intensive care, surgery, labor and delivery, pediatrics, psychiatry, and air ambulance services.

PMED A295A Paramedic Internship 12 CR
Contact Hours: 0 + 36
Prerequisites: PMED A120.
Grade Mode: Pass/No Pass.
Pre-hospital field experience under the guidance of a paramedic preceptor on an advanced life support ambulance. Interns perform all aspects of paramedic care.

PMED A310 Update in Paramedicine 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Current U.S. Paramedic License.
Integrates paramedicine knowledge and techniques with evaluation of applied skills.

PREPARATORY ENGLISH - PRPE

Offered through the Community and Technical College
Sally Monserud Building (SMB), Room 102, 786-6856

PRPE A052 Campus Orientation 1 CR
Contact Hours: 1 + 0
Prerequisites: Asset Reading score of 27.
Grade Mode: Pass/No Pass.
Special Fees.
Introduces resources found on the UAA campus and in the University of Alaska system and teaches use of those resources to overcome common barriers to success in college.

PRPE A054 Classroom Success 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Special Fees.
Introduces basic study skills such as goal setting, time management, notetaking, textbook reading, memory techniques, stress management, and learning styles.

PRPE A060 Slingerland I 3 CR
Contact Hours: 3 + 0
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Referral or Slingerland Screening Test recommended. These course methods are not effective for students with a visual or hearing impairment or who speak English as a second language at a beginning level.
Provides intensive, guided practice in handwriting, spelling, and word attack skills for English speaking students who have specific language processing problems. Uses all learning channels (sight, hearing, and touch) and a phonics-based approach.

PRPE A062 Multi-Sensory Reading 3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: These course methods are not effective for students with a visual or hearing impairment.
Gives instruction and practice in using Slingerland method and Lindamood-Bell visualizing and verbalizing techniques to increase the student's ability to sound out unknown words, extend reading vocabulary, and increase comprehension and retention.

PRPE A064 Multi-Sensory Grammar/Writing 3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: These course methods are not effective for students with a visual or hearing impairment.
Increases ability to write Standard American English by using the Slingerland method to introduce basic grammar and its use in writing. Covers simple parts of speech, word choice, agreement of sentence elements and basic sentence construction.

PRPE A066 Slingerland II 3 CR
Contact Hours: 3 + 0
Registration Restrictions: PRPE A060 with minimum grade of C or referral based on Slingerland Screening Test.
Special Note: Primarily for English speaking students who have specific language processing problems. Referral or Slingerland Screening Test recommended. These course methods are not effective for students with a visual or hearing impairment or who speak English as a second language at a beginning level. May be repeated one time for credit.
Improves language/communication skills necessary for successful participation in college coursework through advanced multi-sensory instruction. Emphasizes phonics, organization of English written language, and study skill relevant to curriculum.

PRPE A072 Individualized Reading Lab 1 CR
Contact Hours: 0 + 2
Prerequisites: Asset Reading score of 27.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Designed for students who score below 33 on Asset Reading test. May be repeated two times for credit.
Provides individualized instruction in basic reading skills, text comprehension, vocabulary development, dictionary skills, and adjustment of reading rate.

PRPE A074 Vocabulary Skill Building 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: Asset Reading score of 30.
Special Fees.
Provides tools for vocabulary growth. Includes word recognition drills, practice exercises, writings, word roots, prefixes, and origins, use of the dictionary, and word searches on the computer.

PRPE A076 Reading Strategies 3 CR
Contact Hours: 3 + 0
Prerequisites: Asset Reading score of 34.
Special Fees.
Provides basic strategies for reading comprehension, vocabulary development, and textbook skills necessary for success in freshman college classes.

PRPE A084 Grammar and Sentence Skills 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: Asset Reading score of 30.
Special Fees.
Reviews the basics of effective sentences in Standard American English for college writing.

PRPE A086 Basic Composition I 3 CR
Contact Hours: 3 + 0
Prerequisites: Asset Reading score of 35 and PRPE A084 with minimum grade of C.
Special Fees.
Teaches students to write sentences and paragraphs that conform to Standard American English for college writing. Introduces students to the use of writing resources, rhetorical modes, and style manuals.

PRPE A108 Basic Composition II 3 CR
Contact Hours: 3 + 0
Prerequisites: Asset Reading score of 40 or PRPE A086 with minimum grade of C.
Special Fees.
Teaches students to write paragraphs and multi-paragraph essays that conform to Standard American English for college writing. Continues intensive practice in grammar, punctuation, and sentence combining.

POLITICAL SCIENCE - PS

Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 359, 786-4897

PS A101 Introduction to American Government 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences
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
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
Principles, logic, and application of parliamentary procedure in formal meeting context. Emphasis on the use of parliamentary procedure in formal meeting format as a vehicle to encourage participation on the one hand and to exercise control on the other. Focus on both governmental and non-governmental context.

PS A201 Topics in Politics 1-3 CR
Contact Hours: 1-3 + 0
Special Note: Subtitle varies; may be repeated for credit with a different subtitle.
A topic of contemporary or continuing interest in Alaska politics, American politics, comparative politics, and/or international relations, treated at the introductory level.

PS A301 Comparative Political Economy 3 CR
Contact Hours: 3 + 0
Prerequisites: 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
A comprehensive introduction and review of this major subfield of the discipline of political science. The subject matter, goals and purposes, concepts, and methods of comparative politics are covered. This course prepares students for comparative analysis of politics.

PS A312 Comparative Politics: Case Studies 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A311.
A detailed analysis and comparison of the political systems of several selected independent, sovereign nation-states. The cases selected for study represent contrasting types of political systems in different regions of the world.

PS A321 International Relations 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
A comprehensive introduction to the concepts, processes, and structures of international relations. Topics include the international environment, the nation-state system, transnational institutions, diplomacy, and war. Selected contemporary international issues and the state of international organization are also treated.

PS A322 United States Foreign Policy 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
A comprehensive introduction to United States foreign policy. Constitutional provisions and the politics of policy making are treated. This course also focuses on contemporary foreign policy problems.

PS A324 Model United Nations 1/3 CR
Contact Hours: 1+3 or 0
Special 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
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
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
Political philosophy from Machiavelli to Nietzsche, with emphasis on liberalism and its critics.

PS A341 Congress 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
The organization of Congress and its role in the American political system. Theories of representative government, the internal dynamics of Congress, and forces influencing Congress's ability to act within the constitutional system are among the topics examined.

PS A342 The American Presidency 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
The evolution of the executive branch of United States government. Focuses on presidential power, relations with Congress, presidential selection, contemporary policymaking, and the Constitution.

PS A343 Constitutional Law 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or JUST A110.
Crosslisted with: JUST A343.
An introduction to American constitutional law through study of selected Supreme Court cases. Among the topics considered are judicial review; separation of powers; property, commerce, and taxation; liberties guaranteed by the Bill of Rights; equal protection; and privacy. Comparisons are made with the Alaska Constitution.

PS A344 State and Local Politics 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101.
State and local politics and governments in the United States and their interrelationships. The course focuses on how the political process works, how decisions are made, and current issues and policies.

PS A345 Alaska Government and Politics 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101.
Special Note: May be applied to the Alaska Culture and History requirements for State of Alaska teacher recertification.
Governmental structures and the political process in Alaska. The course examines the history of government in Alaska, the cultural diversity of the population, and its effect on politics, contemporary policy issues, and political change.

PS A346 Alaska Native Politics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Upper Division Standing.
Crosslisted with: AKNS A346.
Special Note: May be applied to the Alaska Culture and History requirements for State of Alaska teacher recertification.
Politics and governments of Alaska Natives. Focuses on the history of Native/non-Native relations, contemporary issues and possibilities, and comparative case studies in Canada, Siberia, Greenland, and Scandinavia.

PS A347 Public Administration 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
An introduction to the problems of managing agencies and implementing policies in local, state, and federal government. History and current practices of public administration and the effects of the social, economic and political environments on administration, with an emphasis on Alaska.

PS A348 Public Policy 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
Case study approach to public policy and policymaking. Examines the relationship between the social, economic, and political environments and specific contemporary policies (e.g., education, social welfare, housing, employment, etc.), the policymaking process, and alternative models of policymaking. Emphasis on Alaska as well as national issues.

PS A351 Political Sociology 3 CR
Contact Hours: 3 + 0
Crosslisted with: SOC A351.
Course Attributes: GER Social Sciences
Introduction to the social aspects of politics and the nature and distribution of power in society. Examination of the dynamic relationship of the political process and the institutions of society.

PS A353 Political Behavior, Participation, and Democracy 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
Exploration of the relation between the organization of society, political behavior, and efforts to influence the distribution of wealth, property, information and other valuable resources. The course considers the effects of tradition, economic circumstances, education, the media, and other factors on our political beliefs and activities, and the impact of individual and collective actions on public decisions and policies.

PS A361 Social Science Research Methods 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A102 or SOC A101.
Crosslisted with: SOC A361.
Special Fees.
An introduction to research methods, including definition of research problems, development of hypotheses, experimental and non-experimental research design, sampling, and data collection and analysis. Students participate in field exercises to develop critical capacities for evaluating research studies.

PS A411 Tribes, Nations and Peoples 3 CR
Contact Hours: 3 + 0
Registration Restrictions: PS A101 or PS A102 or Junior standing.
Crosslisted with: AKNS A411.
The politics of tribes, nations, and peoples lacking state representation. Case studies are drawn from Africa, Asia, Australia, North and South America, the South Pacific, Europe, and the former Soviet Union. Focuses on the nature of the economic system and how the economic process redistributes power and wealth.

PS A421 The Rise and Fall of Great Powers 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102 or HIST A102 or HIST A132.
Crosslisted with: HIST A421.
The foundations and distribution of nation-state power in the modern world. The course examines historical changes in the distribution of power in the modern international system, nation-state "Rise" and "Decline," and the impact of the end of the of traditional Cold War.

PS A424 International Law and Organization 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
An examination of the nature, subjects, and status of international law, and the purposes, roles, and development of international organizations. The course considers the significance of international law and organization in the contemporary global arena. Specific issues are analyzed to demonstrate the application of international law and the operation of international organizations.

PS A432 Contemporary Political Theory 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101.
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.

PS A453 Organization Theory 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101.
Examines the behavior of the dominant form of institutions in modern society, i.e., organizations, and the behavior of individuals and groups within organizations. Emphasis on the relationship between the structure and design of organizations, conflicts within and between organizations, and organizations' (and individuals') ability to adapt and achieve goals.

PS A490 Studies in Politics 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: PS A101 or PS A102.
Registration Restrictions: Junior standing.
Stacked with: PS A690.
Special Note: Subtitle varies; may be repeated with different subtitles.
An examination of an aspect of politics from the perspective of a major field in the political science discipline (comparative politics, international relations, political philosophy, American politics, and political behavior). Field and subject studies will vary from year to year.

PS A492 Senior Seminar in Politics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Senior standing.
Examination of a single major problem in the study of politics. The capstone course required of Political Science majors.

PS A495 Internship in Political Science 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: PS A101 or PS A102.
Registration Restrictions: Faculty permission required.
Special Note: Internships vary; may be repeated once for credit with a different internship.
An opportunity for students to apply the subject matter of political science to the practical life of the community. Internships are available in a variety of governmental and private settings and require a formal agreement between the student, the faculty member, and the supervisor; a work evaluation, and a student report.

PS A690 Studies in Politics 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: PS A101 or PS A102.
Stacked with: PS A490.
Special Note: Subtitle varies; may be repeated with different subtitles.
An examination of an aspect of politics from the perspective of a major field in the political science discipline (comparative politics, international relations, political philosophy, American politics, and political behavior). Field and subject studies will vary from year to year.

PSYCHOLOGY - PSY

http://www.uaa.alaska.edu/psych/
Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 214, 786-1711

PSY A100 Understanding People 3 CR
Contact Hours: 3 + 0
Special Note: Does not satisfy BA or BS in Psychology degree requirements.
Entry-level non-technical introduction to psychology and causes of human behavior. Useful for re-entering college students, non-majors, and international students seeking to improve study skills or English usage.

PSY A111 General Psychology 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences
Introduces psychology through presentation of outstanding research and theories. Includes physiological, developmental, abnormal perception, motivation, learning, and personality.

PSY A112 Psychology Short Courses 1 CR
Contact Hours: 1 + 0
Special Note: May be repeated for a maximum of 3 credits.
Presents topics in general psychology. Specific topics to be announced.

PSY A120 Parenting: More than Discipline 3 CR
Contact Hours: 3 + 0
Crosslisted with: ED A120.
Introduces parenting and how it differs from discipline. Discusses three parenting styles. Emphasizes nurturing, communicating, setting limits, and making maturity demands.

PSY A130 Crisis Line/Shelter Advocacy 1 CR
Contact Hours: 1 + 0
Offered only at Kodiak College.
Basic listening skills and crisis intervention techniques. Overview of domestic violence, adult and child sexual assault, legal alternatives, and community resources.

PSY A135 Domestic Violence and Sexual Assault Advocacy Training 1 CR
Contact Hours: 1 + 0
Offered only at Kodiak College.
In-depth review of fundamentals of domestic violence and sexual assault advocacy with specific emphasis on law enforcement, legal, medical, and social services. Focuses on regulation and program standards, dynamics of advocacy case work, development of techniques of effective interaction with clients, and working knowledge of community resources.

PSY A143 Death And Dying 3 CR
Contact Hours: 3 + 0
An examination of the event of death and the process of dying in contemporary society. Psychological aspects of loss, grieving, and acceptance of one's own mortality are presented along with an exploration of helping services available in the local community. Social issues involving death are discussed.

PSY A150 Human Development 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences
Reviews aspects of human development and changes which occur during a person's lifetime. Covers prenatal period, infancy, early and middle childhood, adolescence, and early, middle, and late adulthood.

PSY A153 Human Relations 3 CR
Contact Hours: 3 + 0
Crosslisted with: HUMS A153.
Special Fees.
A survey of human relations to include communication, problem solving, interaction, relationship, choice and change skills.

PSY A169 Human Sexuality 3 CR
Contact Hours: 3 + 0
Introduces topics of human sexual functioning including physiology, psychology, sociology, philosophy, and morality of human sexuality practices and love.

PSY A170 Rational Living 1 CR
Contact Hours: 1 + 0
Special Fees.
Study of rational-emotive therapy, general semantics, decision making, and communication theory. Examines how people create neurotic emotions and block effective behavior, and styles of ongoing daily self-counseling.

PSY A203 Assertiveness Training 3 CR
Contact Hours: 3 + 0
Registration Restrictions: One social science course.
Examines destructive and self-defeating behaviors and attitudes. Explores alternative ways of communicating feelings, beliefs, and opinions honestly, directly, appropriately, and effectively. Assertiveness skills learned through experiences and feedback in class and self-change projects out of class.

PSY A223 Introduction to Paraprofessional Counseling I 3 CR
Contact Hours: 3 + 0
Crosslisted with: HUMS A223.
Special Fees.
Focuses on systematic approach to effective helping and skills in the following categories: skills for understanding, skills for comfort and crisis intervention, and skills for positive action.

PSY A230 Psychology of Adjustment 3 CR
Contact Hours: 3 + 0
Registration Restrictions: One social science course.
Study of sources and problems of stress. Examines self-esteem and interpersonal relationships from perspective of personal coping skills. Emphasizes taking control of one's life.

PSY A245 Child Development 3 CR
Contact Hours: 3 + 0
Registration Restrictions: One social science course.
Special Fees.
Study of physical, emotional, cognitive, and social aspects of a child's development from prenatal period to beginning of adolescence. Includes theoretical view of development and effects of genetics, environment, and socialization.

PSY A260 Statistics for Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 and MATH A105.
Registration Restrictions: Recommended corequisite PSY A261.
Special Note: Does not satisfy the general education quantitative requirement.
Presents basic descriptive and inferential statistical techniques used in psychology. Covers measures of central tendency, variation, correlation, regression, hypothesis testing, parametric and nonparametric tests for independent and dependent groups, one and two way analysis of variance.

PSY A261 Introduction to Experimental Psychology 4 CR
Contact Hours: 3 + 3
Prerequisites: PSY A111.
Registration Restrictions: Recommended corequisite PSY A260.
Corequisite: PSY A261L.
Introduces and applies the scientific approach to understanding behavior. Explores the foundations of behavioral research, with emphasis on experimental methodology. The laboratory component provides actual examples of data collection, analysis and interpretation.

PSY A280 Seminar in Contemporary Issues 3 CR
Contact Hours: 3 + 0
Crosslisted with: HIST A280 and SOC A280.
Special Note: Subtitle varies; may be repeated for credit with a different subtitle. Crosslisting varies each semester depending on topic.
Analyzes contemporary issues from a variety of social science perspectives.

PSY A313 Psychology of Women 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior level standing, or 6 credits of psychology.
Examines how women behave, think, and feel. Major topics are sex-role development, the effects of sexism, pornography, and violence against women, gender differences, female sexuality and health issues, love relationships, femininity, masculinity, and androgyny, and adjustment and mental disorders.

PSY A316 Motivation and Emotion 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111.
Registration Restrictions: Must have completed one other social science course and have junior standing.
Examines the basic theories and phenomena associated with motivational states and emotional experiences. Human motives are described and related to various forms of behavior. Characteristics of emotional states are identified.

PSY A324 Introduction to Paraprofessional Counseling II 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A223 or HUMS A223.
Crosslisted with: HUMS A324.
Special Fees.
Focuses on 11 major paraprofessional counseling skill clusters. Course emphasis will be skill performance in a direct service context.

PSY A328 Comparative Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111.
Registration Restrictions: One other psychology course.
A survey of animal behavior throughout the phylogenetic scale. Application of theories to human behavior will be included but not emphasized.

PSY A345 Psychology of Abnormal Behavior 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111.
Integrates current DSM taxonomy with current research and prevailing theoretical orientations of the biopsychosocial model with attention to multicultural, gender and developmental issues.

PSY A350 Drugs and Drug-Taking Behavior 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111.
Crosslisted with: HS 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.

PSY A355 Learning and Cognition 4 CR
Contact Hours: 3 + 3
Prerequisites: PSY A261 and [PSY A260 or AS A252].
Special Note: A laboratory component provides a series of exercises illustrating important learning principles.
An overview of major learning principles including classical conditioning, operant conditioning, memory structure and function, forgetting, and transfer.

PSY A366 Perception 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 and PSY A261.
Special Fees.
Presents current theories and phenomena which effect how we perceive the world around us. Explores the capacities and limitations of the sensory apparatus, particularly vision. Considers implications of the human tendency to "Misperceive" situations.

PSY A368 Personality Theories 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A261 and [PSY A260 or AS A252].
A 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.

PSY A370 Physiological Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A261 and [PSY A260 or AS A252].
Structures and functions of the central nervous system and how these may explain behavior phenomena.

PSY A372 Community Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111.
Registration Restrictions: One other psychology course.
An examination of interaction theories and research applied to communications, dynamics of power, confrontation and conflict, and creative problem solving.

PSY A375 Psychology of Social Behavior 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A261 and [PSY A260 or AS A252].
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.

PSY A380 Stress Management: Coping with Personal, Family, and Work Stress 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111.
Registration Restrictions: One other psychology course.
Special Fees.
Examines the use of self-regulation techniques in the management of stress. Topics include cognitive behavior strategies, goal setting, time management, assertiveness training, relaxation techniques, biofeedback, diet, exercise, and alternative health practices.

PSY A381 Substance Abuse Treatment 3 CR
Contact Hours: 3 + 0
Prerequisites: HS A350 or PSY A350.
Crosslisted with: HS A381.
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.

PSY A398 Individual Research 3 CR
Contact Hours: 1 + 6
Prerequisites: PSY A260 and PSY A261.
Registration Restrictions: Faculty permission.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: May be repeated for a maximum of 9 credits.
Participation in a collaborative research group under the supervision of a faculty member. The student will help formulate a research question and assist in carrying out the study. The findings will be reported in a paper or presented at a conference.

PSY A411 Undergraduate Proseminar 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Stacked with: PSY A611.
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 A412 Systems and Theories of Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A261 and [PSY A260 or AS A252].
Influential theories and concepts related to contemporary psychology and an overview of psychological thought for the potential graduate student.

PSY A420 Research Methods in Experimental Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 and PSY A261 and [PSY A260 or AS A252].
Special Fees.
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.

PSY A425 Clinical Psychology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Prior completion of PSY A345 or concurrent enrollment and three other psychology courses.
A survey of current psychotherapeutic approaches, including basic assumptions, techniques and related research findings. A discussion of ethics and professional issues is included.

PSY A427 Field Experience in Psychology 3 CR
Contact Hours: 1 + 6
Registration Restrictions: Declared psychology major and 12 credits of psychology. For non-majors, faculty permission required.
Stacked with: PSY A627.
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.

PSY A443 Introduction to Substance Abuse and AIDS 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A350 or HS A350.
Stacked with: PSY A643.
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.

PSY A445 Strategies of Behavior Change 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A355.
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.

PSY A451 Psychodynamic Theory 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A345 and PSY A368.
Stacked with: PSY A635.

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 is presented and discussed.

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.

Demonstrates application of statistics to various types of studies in the social sciences. Students analyze social science journal articles that utilize statistics.

PSY A455 Developmental Disabilities Overview 3 CR
Contact Hours: 3 + 0
Registration Restrictions: 12 credits in any combination of the following: psychology/social work/special education/nursing/ health sciences/human services. Junior standing.
Stacked with: PSY A642.
Special Note: Required course for most students working and studying in the university affiliated program.

Surveys major issues in developmental disabilities, including those of particular relevance to services in Alaska. Topics include biological and environmental bases of disabilities, social and learning development through the life span, educational and vocational development, systems of intervention, cultural, family, and legal issues.

PSY A456 Selected Topics on Disabilities 1-3 CR
Contact Hours: 1-3 + 2-6
Prerequisites: PSY A455.
Stacked with: PSY A656.
Special Note: Check schedules for specific titles being offered. PSY 456 may be repeated for a maximum of 6 credits with a change of subtitle.

Focus on current topics related to specific disabilities and the educational and treatment plan issues surrounding disabilities.

PSY A465 Cross-Cultural Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111.
Registration Restrictions: Three other psychology courses; PSY A425 recommended.
Stacked with: PSY A654.

Explores ethnic-cultural values, attitudes and beliefs as they relate to interpersonal relationships and human behavior. Examines how behavioral styles, manifestations of psychopathology and effective psychotherapy methods are affected by ethnic-cultural factors.

PSY A473 Psychological Testing 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111 and [PSY A260 or AS A252].
Special Fees.

Standardized psychological tests in applied areas. Administration, scoring, and interpretation of established tests, and study of ethical standards applied to development and administration of tests.

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, text 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.
Special Note: May be repeated for a maximum of 6 credits with a change of subtitle.

Topics in clinical or applied psychology presented by practicing members of the professional community. Specific titles as announced.

PSY A492 Senior Seminar: Contemporary Issues in Psychology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Declared psychology major or minor and completion of four psychology courses.
Stacked with: PSY A690.
Special Note: Check schedules for specific titles being offered.

Seminar for senior students who are pursuing a major or minor in psychology to discuss issues in contemporary psychology.

PSY A498 Individual Research 3 CR
Contact Hours: 1 + 6
Prerequisites: PSY A398.
Registration Restrictions: Faculty permission.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: May be repeated for a maximum of 9 credits.

Serve as a project leader in a collaborative research effort under the supervision of a faculty member. The research group will select a topic for research, read relevant studies, formulate a research question and carry out an original study. The findings will be reported in a paper or presented at a conference.

PSY A499 Senior Thesis 3 CR
Contact Hours: 0 + 9
Registration Restrictions: Senior standing in psychology and PSY A420 or current enrollment and advisor's signature.

Independent or collaborative research under faculty supervision. Culminates in document prepared to publication standards. Presentation at behavioral sciences conference of the North is encouraged.

PSY A611 Ethics and Professional Practice 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the M.S. Clinical Psychology program.
Grade Mode: Pass/No Pass.
Stacked with: PSY A411.

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 in psychology or related discipline.
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 lifespan. Covers the full span of developmental progression (infancy, childhood and adulthood) with an emphasis on the cognitive, emotional, and psychological tasks of development at various ages.

PSY A622 Psychopathology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A345.
Registration Restrictions: Admission to MS Clinical Psychology program.
Special Fees.

Thoroughly familiarizes students with the diagnostic process that precedes psychotherapy and treatment planning, utilizing the most current diagnostic and statistical manual of mental disorders. Provides an overview of types of psychopathology and reviews associated research to enhance diagnostic accuracy and understanding.

PSY A623 Psychotherapy Skills 3 CR
Contact Hours: 3 + 0
Prerequisites: (PSY A425 or concurrent enrollment).
Registration Restrictions: Admission to MS Clinical Psychology Program.
Special Fees.

Psychotherapy skills training course including theory, techniques, professional issues, and experience. Students participate in videotaped interviews to practice and refine psychotherapy techniques and skills.

PSY A624 Group Therapy 3 CR
Contact Hours: 3 + 0
Prerequisites: (PSY A623 or concurrent enrollment).
Registration Restrictions: Admission to MS Clinical Psychology Program.

Theories of group dynamics and exploration of group processes for a variety of populations. Includes interpretation and analysis of interactional and interpersonal patterns. Features an experiential component of group participation and leadership.

PSY A626 Family Therapy 3 CR
Contact Hours: 3 + 0
Prerequisites: (PSY A623 or concurrent enrollment).
Registration Restrictions: Admission to MS Clinical Psychology Program.
Special Fees.

Covers systems theory of family dynamics and behavioral change concepts. Includes critical survey of prevailing interventions, emphasizing couples therapy and whole family techniques. Covers interaction analysis and observation of recorded or analog family therapy.

PSY A627 Agency and Community Field Experience 3 CR
Contact Hours: 2 + 5
Registration Restrictions: Admission to MS Clinical Psychology Program.
Stacked with: PSY A427.
Special Note: May not be applied as elective credit to the MS degree in Psychology, though it may apply for credit to interdisciplinary Master's degree programs.

Involves work in community agencies under close supervision by a field and campus supervisor. Provides pre-practicum experiences with some direct services, but mainly extensive observation, to be integrated with relevant theoretical and empirical literature.

PSY A630 Career Counseling 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A623.
Registration Restrictions: Admission to MS Clinical Psychology program.

A survey of theory and practice of career counseling throughout the life span of development. Several current theories concerning the progress of career choice will be examined with respect to the appropriate stages of development. Students also explore the specific methods, techniques, and assessment tools available to assist clients in making responsible career decisions.

PSY A631 Cognitive Behavior Therapy 3 CR
Contact Hours: 3 + 0
Prerequisites: (PSY A623 or concurrent enrollment) and (PSY A445 or concurrent enrollment).
Registration Restrictions: Admission to MS Clinical Psychology Program.

Behavioral strategies of major clinical relevance (e.g., treatment of anxiety, depression). Procedures (including behavioral assessment) are examined in detail and related to evidence for efficacy, with emphasis on adult populations.

PSY A633 Psychological Assessment 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A473 and (PSY A623 or concurrent enrollment).
Registration Restrictions: Admission to MS Clinical Psychology Program.

Administering, scoring and interpreting assessment tools (especially intelligence and personality measures), and writing psychological reports, resulting in a meaningful individual or group evaluation.

PSY A635 Advanced Psychodynamic Theory and Therapy 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A345 and PSY A368.
Registration Restrictions: Admission to the MS clinical psychology program.
Stacked with: PSY A451.
Special Note: PSY A635 cannot be applied toward the MS degree in Clinical Psychology if PSY A451 was previously taken for credit.

Provides in-depth analysis of modern theories of psychoanalysis and psychodynamic approaches to development, personality, psychopathology and treatment. Theories are discussed primarily within an applied framework; however, relevant empirical investigations are also discussed and critiqued. Focus is placed on theorists such as Kohut, Masterson, Winnicott, and other modern psychoanalysts. Practical application, critical thinking and research design and investigation are stressed.

PSY A637 Organizational Environments 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A623.
Registration Restrictions: Admission to MS Clinical Psychology Program.

Study of human service delivery including knowledge of "Living environments," effective supervision, and agency management. Includes a practical component in the supervised development of model agency protocols.

PSY A638 Child-Clinical Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A623 and (PSY A445 or concurrent enrollment).
Registration Restrictions: Admission to MS Clinical Psychology Program.

Treatment of childhood behavior problems affecting abnormal and normal children, particularly those encountered by practicing psychologists and pediatricians. Examines the empirical basis for various forms of parent advice, parent training, and direct clinical intervention.

PSY A639 Advanced Research Methods 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A420.
Registration Restrictions: Admission to MS clinical psychology program.
Special Fees.

Teaches advanced research design for graduate students beginning research-related work. Provides systematic coverage of research designs and journal publication procedures. Students develop research topics, conduct initial literature review, identify appropriate publication outlets, address ethical issues, delineate necessary pilot studies, and present plan for conduct, interpretation and publication of research work.

PSY A641 Applications of Community Psychology 3 CR
Contact Hours: 1 + 6
Prerequisites: (PSY A623 or concurrent enrollment).
Registration Restrictions: Admission to MS clinical psychology program.

Systems models of community change and self-support. Students develop and initiate community interventions, which may include group self-management packages.

PSY A642 Issues in Developmental Disabilities 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing in psychology or related areas.
Stacked with: PSY A455.

Presents issues of importance to the field of severe and persistent disabilities of particular relevance to Alaska. The etiology and the social, educational, and vocational implications are focused on consequences and strategies for service providers. Students may select topics such as autism, early intervention, remote area services, aging, families, and so on, according to their interests.

PSY A643 AIDS and Substance Abuse Counseling 3 CR
Contact Hours: 3 + 0
Prerequisites: [HS A350 or PSY A350] and PSY A623.
Registration Restrictions: BA or BS degree.
Stacked with: PSY A443.
Special Note: Cannot be applied toward the MS degree in Clinical Psychology if PSY A443 was previously taken for credit.

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 and counseling approaches for drug users. Counseling skills for pre/post HIV testing is provided and emphasized.

PSY A645 Advanced Psychotherapy Skills 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A622 and PSY A623.
Registration Restrictions: Admission to MS clinical psychology program.

Reviews various types of advanced therapeutic skills (e.g., Gestalt techniques, paradoxical intervention, relaxation training) as they are relevant with regard to different diagnoses presented by clients. Reviews the research literature for specific disorders and their correlated recommended treatments.

PSY A650B Systems of Human Behavior I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Requires written permission of the director of the Biomedical Program.
Special Fees.

Selected overview of contributions from behavioral sciences to clinical practice of primary care physician. Sensitizes students to impact of such factors as cultural background, social role, sexual identity and belief system upon their effectiveness as a physician; to appreciate role of behavioral factors in major management problems faced in medical practice; to acquire skills in analyzing behavior, defining behavioral objectives, and designing practice treatment strategies to obtain these objectives.

PSY A654 Cultural Issues in Psychotherapy 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A623.
Registration Restrictions: Admission to MS Clinical Psychology program.
Stacked with: PSY A465.
Special Note: PSY A654 cannot be applied toward the MS degree in Clinical Psychology if PSY A465 was previously taken for credit.

Places focus on understanding the role that ethnic and cultural issues can play in psychotherapy relationships. Opportunities are provided to gain the awareness, knowledge, and skills necessary to become more effective in cross-cultural psychotherapy situations.

PSY A656 Advanced Selected Topics on Disabilities 1-3 CR
Contact Hours: 1-3 + 2-6
Prerequisites: PSY A455 or PSY A642.
Registration Restrictions: BA or BS degree.
Stacked with: PSY A456.
Special Note: Check schedules for specific titles being offered. PSY 656 may be repeated for credit with a change of subtitle. May receive credit for both PSY A456 and PSY A656 with different subtitles.

Focus on current topics related to specific disabilities and the clinical and treatment plan issues surrounding the disability.

PSY A665A Psychotherapy Practicum: Psychological Assessment 1 CR
Contact Hours: 2 + 4
Prerequisites: PSY A623 and PSY A633.
Registration Restrictions: Admission to MS clinical psychology program.
Special Fees.

Applied technique course focusing on specific issues and problems in psychological assessment.

PSY A665B Psychotherapy Practicum: Psychological Services Center 3 CR
Contact Hours: 2 + 15
Prerequisites: PSY A622 and PSY A623.
Registration Restrictions: Admission to MS clinical psychology program.
Special Fees.

Applied technique course focusing on psychotherapy issues and problems encountered in the general psychotherapy setting. All course work will be done in the department's Psychological Services Center.

PSY A665C Psychotherapy Practicum: Community Agency 1-3 CR
Contact Hours: 2 + 4-12
Prerequisites: PSY A622 and PSY A623.
Registration Restrictions: Admission to the MS clinical psychology program or an interdisciplinary MS degree housed in psychology.
Special Fees.

Applied techniques course focusing on specific psychotherapy techniques or intervention issues such as consultation, family preservation, or case management as well as problems encountered in specific mental health settings. All course work will be done at a designated community or campus agency.

PSY A670 Psychotherapy Internship 3-6 CR
Contact Hours: 2 + 20-4
Prerequisites: PSY A665B.
Registration Restrictions: Candidacy status; admission to MS clinical psychology program; students must have passed the department comprehensive exam.
Special Fees.
Special Note: A minimum of two successfully completed semesters (grade of B or better) is required for graduation. Placement at approved settings will be assigned according to the student's specialization and availability of sites.

Supervised psychotherapy with clients in a variety of settings throughout the community.

PSY A680 Advanced Issues in Addiction Studies 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: [PSY A350 or HS A350] and PSY A623.
Registration Restrictions: BA or BS degree.
Stacked with: PSY/HS A480.
Special Note: PSY A680 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. Manifestation of the topic in clinical settings is emphasized.

PSY A682 Clinical Interventions for Addictive Behaviors 3 CR
Contact Hours: 3 + 0
Prerequisites: [HS A381 or PSY A381] and PSY A623.
Registration Restrictions: BA or BS degree.
Stacked with: PSY A482.
Special Note: 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 after-care. Skills developed in counseling techniques are built upon and applied to various substance abuse care studies. Applications to clinical interventions are emphasized and differentiated for various treatment settings.

PSY A685 Quantitative Methods in Psychology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing and an undergraduate statistics course.

Principles of quantitative methods for data analysis in psychology. Topics include basic (e.g., correlation, reliability, power analysis, t-test) and advanced (e.g., logistic regression, factor analysis) methods of data analysis that are commonly found in psychological research. This course is designed to enhance rather than substitute for knowledge of quantitative methods gained at the undergraduate level. Both theoretical underpinnings and applied applications are stressed so that students can select appropriate quantitative methods, implement the data analysis, and report results according to American Psychological Association Standards.

PSY A685L Quantitative Methods in Psychology Lab 1 CR
Contact Hours: 0 + 3
Prerequisites: (PSY A685 or concurrent enrollment).
Registration Restrictions: Graduate standing and an undergraduate statistics course.
Special Fees.

Elective computer laboratory designed to teach computerized packages for quantitative methods of data analysis in psychology.

PSY A688 Assessment and Treatment Planning for Additive Behaviors 3 CR
Contact Hours: 3 + 0
Prerequisites: [PSY A350 or HS A350] and PSY A623.
Registration Restrictions: BA or BS degree.
Stacked with: PSY A488.
Special Note: Cannot be applied toward the MS degree in Clinical Psychology if PSY A488 was previously taken for credit.

Tests, measurement, and treatment planning are reviewed with an exclusive focus on substance abuse assessment methods. Topics of classical theory, reliability, validity, text construction, item analysis, and treatment planning are discussed.

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.

Presents advanced psychological assessment topics and techniques such as the Rorschach Inkblot Test, the Thematic Apperception Test and other projective techniques. Also teaches integrative report-writing and involves practical application.

PSY A690 Selected Topics in Psychotherapy 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Baccalaureate degree. Some sections in this series may require additional prerequisites.
Stacked with: PSY A490 and PSY A492.

A combined theory and technique course focused on specifically designated issues and problems in counseling and psychotherapy. Designed for students seeking advanced training in special areas of clinical psychology.

PSY A695 Teaching Practicum in Psychology 3 CR
Contact Hours: 2 + 8
Registration Restrictions: Admission to the MS degree program in clinical psychology or MS Interdisciplinary degree program housed in the Department of Psychology and faculty permission.
Grade Mode: Pass/No Pass.
Provides the psychology student an opportunity to learn basic principles of classroom teaching under close faculty supervision. Responsibilities include lecture preparation, exam construction, lecturing, grading, and other teaching-related tasks as agreed upon by the student and supervising faculty in a written contract.

PSY A698 Individual Research 1-4 CR
Contact Hours: 0 + 3-12
Registration Restrictions: Admission to graduate studies in psychology and faculty permission.
Special Fees.
Selected pre-thesis activities, such as literature reviews, protocol development, and pilot studies. May alternatively include individual contributions to team research projects.

PSY A699A Thesis: Research 1-6 CR
Contact Hours: 0 + 3-18
Prerequisites: PSY A639.
Registration Restrictions: Candidacy status and permission of thesis chair.
Special Note: Students may enroll for variable credit (1-6 hrs), but 6 credit hours are both the minimum required and maximum allowed for graduation.
Required for students completing the Research Track in the Clinical Psychology MS program. Involves independent empirical research under the supervision of an individual graduate study committee that is also monitored by an outside reader. Culminates in a document prepared to publication standards and a public presentation.

PSY A699B Thesis: Public Service 1-3 CR
Contact Hours: 0 + 3-9
Prerequisites: PSY A639.
Registration Restrictions: Candidacy status and permission of thesis chair.
Special Note: Students may enroll for variable credit (1-3 hrs), but 3 credit hours are both the minimum required and the maximum allowed for graduation.
Required for students completing the Public Service Track in the Clinical Psychology MS program. Involves independent research under the supervision of an individual graduate study committee that is also monitored by an outside reader. Culminates in a document prepared to publication standards and a public presentation.

PSY A699C Thesis: Creative Component 1-3 CR
Contact Hours: 0 + 3-9
Prerequisites: PSY A639.
Registration Restrictions: Candidacy status and permission of the thesis chair.
Special Note: Students may enroll for variable credit (1-3 hrs), but 3 credit hours are both the minimum required and maximum allowed for graduation.
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) 745-9721

RH A101 Refrigeration and Air Conditioning I 4 CR
Contact Hours: 5 + 1
Offered only at Matanuska-Susitna College.
Assumes no previous knowledge of refrigeration or air conditioning. Introduces the fundamentals of refrigeration and air conditioning theory. Explores compressors, condensers, evaporators, metering devices, and related components. Instruction in use of basic hand and power tools and testing devices applicable to the trades, and experimentation with mechanical compression refrigeration system training devices.

RH A103 Technical Math for Refrigeration and Heating I 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Practical use of mathematics as applied to trade and vocational work, designed to increase skills involving trade and technical problems. Covers fractions, decimals, percentage, powers of numbers, and basic algebraic elements. Also explores geometric concepts, ration and proportion, scale drawings, and trigonometric functions.

RH A105 Electrical Circuits for Refrigeration and Heating I 3 CR
Contact Hours: 3 + 1
Offered only at Matanuska-Susitna College.
Assumes no previous knowledge of electricity or electronics. Explores the fundamentals of energy, sources of electricity, conductors and semiconductors, insulators, and electric motors. Students apply principles and develop skills by using test instruments and training devices.

RH A107 Physics for Refrigeration and Heating I 3 CR
Contact Hours: 3 + 0
Prerequisites: RH A103.
Registration Restrictions: Faculty permission.
Offered only at Matanuska-Susitna College.
Assumes no previous knowledge of physics. Explores basic physical laws related and applied to the refrigeration and heating fields and associated terminology. Students apply theoretical knowledge to training devices and make fundamental calculations related to operating performance of equipment.

RH A120 Motors and Controls 3 CR
Contact Hours: 3 + 0
Crosslisted with: AGRI A133 and ET A120.
Offered only at Matanuska-Susitna College.
Provides understanding of principles of operation of motors, generators, transformers and motor control apparatus. Study of definitions, symbols, diagrams, and illustrations gives a sound background in the language and basic principles associated with electricity, electrical equipment, electrical apparatus and electrical code principles.

RH A122 Refrigeration and Air Conditioning II 4 CR
Contact Hours: 3 + 7
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 A124 Domestic Refrigeration and Heating I 3 CR
Contact Hours: 2 + 5
Prerequisites: RH A101 and RH A103 and RH A105 and RH A107.
Offered only at Matanuska-Susitna College.
Provides familiarization with the design, construction, and servicing of household refrigerators and freezers. Includes hands-on testing and servicing of these units as well as experimentation with various training devices. Repair methods will be explored and demonstrated.

RH A126 Electrical Circuits for Refrigeration and Heating II 3 CR
Contact Hours: 3 + 1
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 A128 Mechanical and Computer Drafting for Refrigeration and Heating I 3 CR
Contact Hours: 3 + 4
Prerequisites: RH A101 and RH A103 and RH A105 and RH A107.
Offered only at Matanuska-Susitna College.
Assumes no previous knowledge of graphic arts. Explores projection theory, orthographic and pictorial presentations, and sectional drawings, by using mechanical and computer drafting technology to enhance basic drafting skills.

RH A201 Commercial and Ammonia Refrigeration 4 CR
Contact Hours: 3 + 7
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 A202 Physics for Refrigeration and Heating II 3 CR
Contact Hours: 3 + 4
Prerequisites: RH A101 and RH A107.
Offered only at Matanuska-Susitna College.
Introduces practical aspects of psychometrics, load calculation, heat quantities, insulation factors and coefficients, and heat and water vapor flow through structures.

RH A203 Control Systems for Refrigeration and Heating II 3 CR
Contact Hours: 3 + 4
Prerequisites: RH A126.
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. Lab exercises deal with installing and troubleshooting refrigeration, heating, and motor controls.

RH A207 Drafting for Refrigeration and Heating II 3 CR
Contact Hours: 4 + 0
Prerequisites: RH A128.
Offered only at Matanuska-Susitna College.
Introduces drafting skills required in the layout of piping, duct, and schematic diagrams for use in heating and air conditioning. Emphasizes symbols associated with plumbing, ductwork, and electrical trades.

RH A225 Heating Plants I —Residential 4 CR
Contact Hours: 3 + 5
Prerequisites: RH A105 and RH A126.
Offered only at Matanuska-Susitna College.
Assumes no previous knowledge of residential heating plants. Introduces knowledge and skills needed to work in the field of residential heating. Instruction ranges from beginning maintenance skills to advanced troubleshooting and systems.

RH A226 Heating Plants II —Commercial 4 CR
Contact Hours: 3 + 5
Prerequisites: RH A105.
Offered only at Matanuska-Susitna College.
Explores commercial heating devices and systems. Covers mixed air temperature control systems (air handling), commercial gas heat systems, three-phase commercial single-package air conditioning, direct spark gas ignition systems, and heavy oil burner systems. Emphasizes troubleshooting and hands-on experience.

RH A229 Solid State Electronics for Refrigeration and Heating 3 CR
Contact Hours: 3 + 5
Prerequisites: RH A126.
Offered only at Matanuska-Susitna College.
Assumes no previous knowledge of electronics. Explores semiconductors, diodes, transistors, transistor amplifiers, electron tubes, power supplies, photo-electricity, thermo-electric cooling, inductive heating and dielectric heating.

RH A230 Selected Topics in Refrigeration and Heating 1 CR
Contact Hours: 1 + 0
Corequisite: RH A225, RH A226 and RH A229.
Offered only at Matanuska-Susitna College.
Variety of topics of interest in heating, ventilation, air conditioning and refrigeration (HVACR) such as computer modeling, economic analysis, performance optimization, combustion efficiency analysis, etc.

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
Special Fees.
A general survey of the Russian language and culture. Students learn the Cyrillic alphabet, some very limited grammar, and useful words and phrases, as well as become familiar with various aspects of Russian culture. Designed primarily for people who intend to travel to Russian-speaking countries or who host Russian visitors and want to be able to exchange very basic information with them.

RUSS A100B Introduction to Russian Language and Culture II 3 CR
Contact Hours: 3 + 0
Prerequisites: RUSS A100A.
Continuation of RUSS A100A: a general survey of the Russian language and culture. Students continue to study grammar, useful words and phrases, and various aspects of Russian culture. Intended for travelers or hosts to Russian visitors.

RUSS A101 Elementary Russian I 4 CR
Contact Hours: 4 + 0
Course Attributes: GER Humanities
Special Fees.
Special Note: Requires use of language lab outside of class time.
Introduces Russian language and culture for students with no background in Russian. Students learn alphabet and past and future tenses, and read simple paragraphs. Focuses on life in the Russian-speaking countries. Emphasizes conversation.

RUSS A101E Elementary Russian I 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities
Offered only at extended colleges.
Introduces Russian language and culture for students with no background in Russian. Students learn alphabet, past and future tenses, and read simple paragraphs. Focuses on life in the Russian-speaking countries. Emphasizes conversation.

RUSS A102 Elementary Russian II 4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A101.
Course Attributes: GER Humanities
Special Fees.
Special Note: Requires use of language lab outside of class time.
Students learn rudiments of Russian grammar while continuing to build vocabulary and conversational skills. Use of Russian language newspapers, magazines and atlases to enhance reading skills.

RUSS A102E Elementary Russian II 3 CR
Contact Hours: 3 + 0
Prerequisites: RUSS A101E.
Course Attributes: GER Humanities
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 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 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
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 I 3 CR
Contact Hours: 3 + 0
Prerequisites: RUSS A102E.
Course Attributes: GER Humanities
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
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 A202E Intermediate Russian II 3 CR
Contact Hours: 3 + 0
Prerequisites: RUSS A201E.
Course Attributes: GER Humanities
Offered only at extended colleges.
Introduces intermediate grammar concepts. Students read independently and discuss readings in class. Cultural material incorporated at all times.

RUSS A205 Conversational Skills II 1 CR
Contact Hours: 0 + 2
Registration Restrictions: Proficiency as after two semesters of college-level or two years of high school study in Russian.
Grade Mode: Pass/No Pass.
Stacked with: RUSS A105.
Special Fees.
Special Note: May be repeated once for credit.
A maintenance and skills enhancement course for intermediate students of Russian, designed primarily to help them to retain and solidify what they have learned in Elementary Russian. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

RUSS A301 Advanced Russian I 4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A202 with minimum grade of C.
Special Fees.
Special Note: Offered only in the fall semester.
Further development of speaking, listening, reading and writing proficiency. Students are introduced to more sophisticated grammatical structures and to a wide range of discussion topics. Activities include class discussions, reading Russian texts and writing short essays. Conducted mainly in Russian.

RUSS A302 Advanced Russian II 4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A301 with minimum grade of C.
Special 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 A390 Selected Topics in Advanced Russian 3 CR
Contact Hours: 3 + 0
Prerequisites: RUSS A202.
Registration Restrictions: RUSS A301 and RUSS A302 strongly recommended.
Special Note: Conducted in Russian. May be repeated for credit with a change of subtitle.
An advanced course for students interested in conversation, listening and writing practice, advanced topics in grammar, and cultural information about the Russian speaking world. Topics will vary.

RUSS A490A Selected Topics in Russian Culture 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: RUSS A302 or comparable proficiency level.
Special Note: Conducted in Russian. May be repeated for credit with a change of subtitle.
For advanced students interested in Russian culture with sufficient language proficiency to read, write, and converse in Russian.

RUSS A490B Selected Topics: Russian Culture in Translation 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Junior Standing.
Special Note: Conducted in English. May be repeated for credit with a change of subtitle.
Covers various aspects of Russian culture. Readings are in English translation, but students who read Russian may choose to read the texts in the original.

SOCIOLOGY - SOC

http://local.uaa.alaska.edu/~aysoc/hmpage.html
Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 372, 786-1714

SOC A101 Introduction to Sociology 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences
Introduction to science of humans as social animals, emphasizing social processes which give rise to and shape human's language, experiences, perception, meaning, and behavior. Multiple frameworks used in understanding and predicting human behavior.

SOC A115 Elderhostel: the Alaskan Adventure 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Overview of components of the Alaskan adventure: history, natural history, anthropology, literature, and geology. Emphasis on Kachemak Bay.

SOC A140 Surges of Change, Reform or Revolution 3 CR
Contact Hours: 3 + 0
Review of U.S. Labor movement and feminist movement over past century. Overview of recent revolutionary movements in third world countries. Required readings in addition to documentary films.

SOC A142 Sociology of Sexuality 3 CR
Contact Hours: 3 + 0
Explores social construction of sexual attitudes and behavior. Draws upon sociological theory and research to demonstrate how sexual behavior is shaped by societal and cultural forces. Aids in understanding of sexual processes and social issues such as diversity, health, sexual preference, violence, and sexual dysfunctions.

SOC A201 Social Problems and Solutions 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences
Survey of some of today's major social problems such as criminal and violent behavior, corporate crime, sexual deviations, health problems, poverty, discrimination, urban decay, and environmental pollution. Examines how social issues become social problems, the causes of problems, and the dynamics involved in arriving at policies and solutions.

SOC A202 The Social Organization of Society 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences
Examination of various ways in which societies develop social structures such as belief, value, symbol, and normative systems to lend predictability to human interactions. Explores why such structures are needed by human societies and implications of varying structures.

SOC A203 Juvenile Delinquency 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Crosslisted with: JUST A203.
Conceptual approach to deviant and delinquent behavior, contributing social problems, adolescence as a subculture. Emphasis on juvenile code and treatment procedure.

SOC A222 Small and Rural Communities 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences
Overview of organization, viability, change and problems of small communities and villages in rural areas; their relations to larger and regional systems; and factors which affect their future as autonomous units.

SOC A242 An Introduction to Marriage, Family and Intimate Relationships 3 CR
Contact Hours: 3 + 0
Registration Restrictions: A social science course recommended.
Introduction to sociological study of contemporary patterns relating to marriage, family and other intimate relationships. Also explores impact of gender roles, ethnicity and racial background on beliefs, values, attitudes and behaviors.

SOC A246 Adolescence 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101 or PSY A111.
Introduction to the world of the adolescent. Examines various patterns of physical, social, intellectual and emotional development during adolescence and effects of social class, ethnicity, race and gender.

SOC A275 Social Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101 or PSY A111.
Examination of the effects of group interaction on individuals' values, attitudes and behavior. Focuses on such topics as perception, interpersonal relationships, conformity, aggression and helping behavior. Emphasizes theory, research, and application.

SOC A280 Seminar in Contemporary Issues 3 CR
Contact Hours: 3 + 0
Crosslisted with: HIST A280 and PSY A280.
Special Note: Subtitle varies; may be repeated for credit with a different subtitle. Crosslisting varies each semester depending on topic.
Analyzes contemporary issues from a variety of social science perspectives.

SOC A307 Demography 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Analysis of world populations: growth and decline patterns, migratory trends and ecology; worldwide implications to current population growth; critical review of major theoretical contributions, with introduction to demographic methods.

SOC A309 Urban Sociology 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Growth and development of urban communities with reference to migration patterns, differentiation of functions, ecological patterns of land use, social control, and secondary group associations of metropolitan magnitude.

SOC A310 Sociology of Aging 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
A comparative analysis of the social status and role of the aging in various societies with emphasis on problems of aging in contemporary U.S.

SOC A342 Sexual, Marital and Family Lifestyles 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Course Attributes: GER Social Sciences
An upper-division course which emphasizes theories and research that explain today's marital, family and sexual lifestyles, as well as class and cultural variations found in the U.S. It includes a survey of why and how people meet, interact, love, fight, change, sustain or dissolve relationships, have children and age together.

SOC A343 Sociology of Deviant Behavior 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
A study of the social etiology of deviant behavior, both criminal and non-criminal with an emphasis on the nature of group interaction, and an examination of the institutions involved.

SOC A347 Sociology of Religion 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
The study of the historical development and functional significance of religion, values , and forms of institutions, groups, reform movements, and their influence on social organization.

SOC A350 Sociology of Work 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Reviews 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
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 A361 Social Science Research Methods 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101 or PS A102.
Crosslisted with: PS A361.
Special Fees.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
The study of violence among individuals who are at least theoretically linked together in intimate relationships (e.g., family members, lovers and dates) from a sociological perspective. Thus, the course focuses on factors in society such as norms, laws and institutes that may produce and/or perpetuate violence among intimates. In addition, the course focuses on current prevention and treatment programs aimed at reducing this type of violence.

SOC A453 Application of Statistics to the Social Sciences 4 CR
Contact Hours: 3 + 2
Registration Restrictions: AS A252 for BA Sociology or AS A253 for BS Sociology or PSY A260 for BA/BS Psychology, and SOC A361 or PSY A261.
Crosslisted with: PSY A453.
Demonstrates application of statistics to various types of studies in the social sciences. Students analyze social science journal articles that utilize statistics.

SOC A454 Evaluation Research and Change 3 CR
Contact Hours: 3 + 0
Registration Restrictions: A social science methods course.
Crosslisted with: JUST A454.

Application of evaluation research to policy-making process. Presents evaluative research strategies including monitoring, process evaluation, cost-benefit analysis, and impact evaluation. Special attention given to designing evaluation projects, analyzing and interpreting results, preparing and presenting evaluation research reports in justice, human and community service fields.

SOC A487 Sociology Practicum 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Special Note: May be repeated once for credit.

Course in which student participates in a significant field research project and/or community action/agency program that applies sociological skills and analysis toward the resolution of specific social problems. Students attend a seminar, class or individual meeting with a faculty member on a weekly basis, and complete a minimum of six hours each week in the field on an approved research or community project which does not have to be localized in the Anchorage area. All students will be expected to participate in the design and program formulation of the project and a final term or progress paper will be required.

SOC A488 Capstone Seminar 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A361 and SOC A402.
Special Note: Offered spring semesters.

Overview of the discipline emphasizing synthesis of theory and research, critical reflection and evaluation, and recent developments in sociology with social action. Students draw on their acquired knowledge to show mastery of discipline's complexity.

SOC A490 Selected Topics in Contemporary Issues 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Special Note: May be repeated for credit with a different subtitle. Sociology majors may apply up to 6 credits towards major requirements.

Intensive research and analysis of specific contemporary issues from a variety of social science perspectives.

SPANISH - SPAN

http://www.uaa.alaska.edu/romance/
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
Special Fees.
Special Note: Use of language lab is required outside of class time.

Foundations of Spanish: alphabet, proper pronunciation, basic vocabulary and sentence structure. Grammar covers articles, gender of nouns, adjectives, pronouns, and regular/irregular verb patterns through preterite tenses. Emphasizes speaking and understanding Spanish through frequent classroom practice and lab exercises.

SPAN A101E Elementary Spanish I 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities
Offered only at extended colleges.

Foundations of Spanish: alphabet, proper pronunciation, basic vocabulary and sentence structure. Grammar covers articles, gender of nouns, adjectives, pronouns, and regular/irregular verb patterns through preterite tenses. Emphasizes speaking and understanding Spanish through frequent classroom practice and lab exercises.

SPAN A102 Elementary Spanish II 4 CR
Contact Hours: 4 + 0
Prerequisites: SPAN A101.
Course Attributes: GER Humanities
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
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
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
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
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
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 A291 Seminar in Individualized Instruction 1 CR
Contact Hours: 1 + 0
Registration Restrictions: One year of college Spanish.
Special Note: May include working as classroom aide; may be repeated for credit when topic varies.

Independent supplemental work under teacher supervision.

SPAN A301 Advanced Spanish I: Composition 4 CR
Contact Hours: 4 + 0
Prerequisites: SPAN A202.
Special Fees.
Special Note: Spanish speaking students can gain entrance to the course with the instructor's signature.

Studies a wide variety of Spanish model sentences taken from expository writing and excerpts from the works of thinkers known for their insight and mastery of style. Based on this information, students begin writing short, simple compositions and advance into more complex ways of expressing their opinions. The study of synonyms, antonyms, and other vocabulary building techniques, to expand the students' expressive capacity, is put into practice in regular verbal and written exercises. Conducted in Spanish.

SPAN A302 Advanced Spanish II: Composition and Analysis 4 CR

Contact Hours: 4 + 0
Prerequisites: SPAN A301.
Special Note: Spanish speaking students can gain entrance to the course with the instructor's signature.

Continue to achieve language fluency and style through the reading, analysis, and production of expository and literary texts through oral and written exercises. A diversity of progressively more difficult prose samples, short stories, and poetry are presented as archetypes to perfect the student's expression of ideas in Spanish. Writing practice is complemented by reading assignments and classroom discussion of the most sophisticated texts to prepare students for the literature courses. Conducted in Spanish.

SPAN A310 Spanish Readings and Conversations 3 CR

Contact Hours: 3 + 0
Registration Restrictions: Two years of college Spanish or equivalent.
Special Fees.
Special Note: May be repeated for credit.

Students will improve their conversational skills by participating in skits, interviews, debates, and discussions based on material read. Some grammar introduced informally, but emphasis is on improving listening and speaking skills. Books and activities vary from semester to semester.

SPAN A410 Structural Spanish Grammar 3 CR

Contact Hours: 3 + 0
Prerequisites: SPAN A202.
Registration Restrictions: SPAN A301/A302 strongly recommended.
Special Note: Spanish speaking students can gain entrance to the course with the instructor's signature.

Study of structural Spanish grammar. Model sentences of the language are viewed and analyzed as guidelines and examples for the correct expression of peoples' thoughts. The class moves in a systematic progression, covering the article, noun, adjective, verbal tenses, and various other parts of speech. A diagnostic-prescriptive approach, based on weekly oral and written exercises which are applicable to the teaching of the language in various levels, is a major component of this course. Conducted in Spanish.

SPAN A432 Studies in Literature and Culture (Selected Topics) 3 CR

Contact Hours: 3 + 0
Registration Restrictions: Reading ability in Spanish equivalent to three years of college study.
Special Note: May be repeated for credit with a change of subtitle.

Intensive study of authors, literary movements, periods, and/or genres. Students will also analyze cultural material other than texts.

SPAN A470 Spanish Linguistics-History of the Language 3 CR

Contact Hours: 3 + 0
Registration Restrictions: SPAN A202 or two recent college years of Spanish. SPAN A410 strongly recommended.
Special Note: Spanish-speaking students can gain entrance to the course with the instructor's signature.

Phonetics, phonology, morphology, and syntax. While surveying the history and development of the language from its birth to the present times, the student reviews and analyzes phonemes, grammatical changes and rules, and the vocabulary and its influences from and on other languages. Speech variation patterns in the Spanish peninsula and throughout Latin America are particularly noted in a panoramic view of the Spanish language as it evolved throughout the centuries and expanded across the world. Taught in Spanish.

SPAN A490 Selected Topics in Hispanic Culture and Civilization 3 CR

Contact Hours: 3 + 0
Prerequisites: SPAN A202.
Registration Restrictions: Spanish-speaking students can gain entrance to the course with the instructor's signature. Course taught in Spanish.
Special Note: Topics focus on Spain as the mother country, Spanish America as a whole, or on a significant unit such as Mexico or the Cono Sur (Argentina, Chile, and Uruguay). May be repeated for credit with a change of topic and any one of the aforementioned topics will suffice for the major in Languages-Spanish.

Course surveying the Hispanic culture and civilization. Folklore and customs, general literature, music, painting, and other artistic expression are studied within the geopolitical, socioeconomic, and cultural context of Spain and/or Spanish America. Readings and lectures emphasize multicultural patterns and artistic contributions of the various peoples composing the Hispanic world. The students are given a perspective of the historical, sociological, religious, and artistic development of the Hispanic Civilizations from ancient to modern times.

SOCIAL WORK - SWK

http://www.uaa.alaska.edu/socwork/
Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 218, 786-6900

SWK A106 Introduction to Social Welfare 3 CR

Contact Hours: 3 + 0
Prerequisites: SOC A101.
Crosslisted with: HUMS A106.
Course Attributes: GER Social Sciences

Analyzes social inequality and American social welfare system. Traces historical development of government response to social inequality. Explores historical and persisting dilemmas—ethical, political, social, and economic—explicit and implicit in social welfare provisioning. Assists in understanding of social welfare problems and their solutions.

SWK A121 Advocating for Victims of Domestic Violence or Sexual Assault 2 CR

Contact Hours: 2 + 0
Grade Mode: Pass/No Pass.
Crosslisted with: HUMS A121.
Offered only at Matanuska-Susitna College.

Focuses on developing the skills and knowledge needed to be an effective advocate for victims of domestic violence and sexual assault. Provides historical perspective, identifies physical, sexual and emotional abuse that defines battering. Explains cycle of violence, power and control issues and why women stay in abusive relationships. Identifies five stages of living without violence (denial, self-blame, help seeking, ambivalence and living violence free lives). Discusses ways of helping victims become survivors.

SWK A122 Introduction to Hospice: Volunteer Training 2 CR

Contact Hours: 2 + 0
Registration Restrictions: Hospital homecare program staff or volunteer.
Grade Mode: Pass/No Pass.
Offered only at Matanuska-Susitna College.

Includes the philosophy of hospice; physical, psycho-social and spiritual needs of the terminally ill and appropriate interventions; care of the family; therapeutic communications; death and dying; and bereavement follow-up.

SWK A306 Introduction to Social Work 3 CR

Contact Hours: 3 + 0
Prerequisites: SWK A106 or HUMS A106.

Introduces the profession of social work and its place in the social welfare institution. Special emphasis is placed upon client-centered generalist social work and the knowledge, skills, abilities and values necessary for professional practice. Fields of practice are studied in terms of the programs and services provided to client systems and social work's role within these fields.

SWK A324 Social Work Research with Statistical Application 3 CR

Contact Hours: 3 + 0
Registration Restrictions: Junior standing.

Definition of client-centered research questions, selection of theoretical frameworks, development of a variety of research designs—including qualitative, quantitative and single subject, sampling, data collection, computer application of statistical analysis, and reporting. Students are expected to engage in a practice related research project and develop the skills necessary for utilization of existing research.

SWK A342 Human Behavior in the Social Environment 3 CR

Contact Hours: 3 + 0
Prerequisites: PSY A150.

Identification and analysis of various theoretical frameworks for understanding human behavior with emphasis on interactions between the individual and the environment. A social systems model serves as the organizing framework for addressing the behavior and development of individuals, groups, families, organizations, and communities with emphasis on the reciprocal influences between individuals, societal institutions, and diverse economic, political, and psychological variables which impact and influence behavior, growth, development and change.

SWK A343 Human Behavior: Diversity and Discrimination 3 CR

Contact Hours: 3 + 0
Prerequisites: SWK A342.

Examination of human diversity in relation to ethnic, racial, cultural and other minority group affiliation and membership. Discrimination against various groups will be addressed with focus on individual and group development, opportunity, aspirations and self-concept.

SWK A360 Introduction to Generalist Social Work Practice 3 CR
Contact Hours: 1 + 6
Prerequisites: [SWK A106 or HUMS A106] and SWK A306.
Grade Mode: Pass/No Pass.

Overview, identification, understanding, and skill development for communication, problem solving, and planned change efforts in generalist social work practice with individuals. Emphasis on client strengths, person in environment context, professional values, self awareness, diversity, and the development of a professional framework for interviewing, intervention, and change. A planned volunteer experience in a community agency is included in the laboratory experience.

SWK A380 Social Service Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUST A110 or PARL A101.
Crosslisted with: JUST A380.

Principal legal problems encountered by service professionals in fields such as health, employment, welfare and social work, with special emphasis on professional liabilities and poverty law.

SWK A406 Social Welfare: Policies and Issues 3 CR
Contact Hours: 3 + 0
Prerequisites: [SWK A106 or HUMS A106] and SWK A306.

The formulation of social welfare policy as the result of interacting social, political and economic factors. Emphasis is placed on analyzing various current social welfare policies and on various methods of influencing policy development and change.

SWK A407 Formal Organizations 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Crosslisted with: SOC A407.

Modern formal organizations are examined in historical and contemporary contexts. Interrelationships between organizational structures, stakeholders, and environments are examined. Current trends in management and organizational analysis are reviewed. Profit-driven, as well as non-profit corporations are considered, as are social welfare, government, social policy, and educational organizations. The multiple roles of middle managers are given specific attention, as preparation for entry into student internships, practica, and the job market.

SWK A409 Introduction to Child Welfare 3 CR
Contact Hours: 3 + 0

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 service delivery systems. A broad overview of current mental health programs and service delivery systems is presented including their development through history. The political and economic issues of mental health policy making will be addressed as will differential intervention strategies and the needs of specific target groups.

SWK 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.

Fundamentals 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.

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 A461A and SWK A461B.
Corequisite: SWK A462B.

Fundamentals for generalist social work practice with emphasis on problem-solving application to client systems in need of professional intervention. Building on assessment and planning processes in SWK A461A, intervention application, evaluation, termination and follow-up generalist social work practice with individuals, families, groups, communities and organizations are covered.

SWK A462B Social Work Practicum II 6 CR
Contact Hours: 0 + 18
Prerequisites: SWK A461A and SWK A461B.
Corequisite: SWK A462A.
Grade Mode: Pass/No Pass.

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 CR
Contact Hours: 1 + 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.

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.

Research design for graduate students beginning research activities related to professional practice. Development of research questions, selection of theoretical frames of reference, creation of research design, literature search, sampling, data collection, analysis and organization of findings are addressed. Research strategies for various system sizes, from single subject design to program evaluation, are addressed. Students engage in a practice related research project and develop skills for utilization of existing research findings.

SWK A625 Social Work Research Lab 1 CR

Contact Hours: 1 + 0
Registration Restrictions: Admission to the MSW program, full-time student status, and successful completion of year one of the MSW program or advanced standing.
Special Fees.

Develop skills using the professional standards and new technologies available in social work practice. Emphasis is on developing technical writing skills and accessing the Internet as a professional tool.

SWK A628 Program Evaluation 3 CR

Contact Hours: 3 + 0
Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing, Health Sciences, or related discipline. Prior research courses or research experience desirable.
Crosslisted with: HS A628.
Special Fees.

Provide knowledge of purpose, design, and implementation of social services program evaluation process. Develop ability to conceptualize, and to carry out an actual program evaluation relative to the student's practicum placement. Covers both formative and summative evaluation processes. Includes necessity for evaluation and issues of cultural competence of evaluators.

SWK A630 Practice Skills Lab 1 CR

Contact Hours: 0 + 3
Registration Restrictions: Admission to the MSW program and full-time student status.
Corequisite: .
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.
Corequisite: .
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.
Corequisite: .
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.
Corequisite: .

Knowledge base for generalist social work practice with emphasis on problem-solving applications to client systems in need of professional intervention. Building on assessment and planning processes covered in SWK A631A, intervention application, evaluation, termination, and follow-up in generalist social work practice with individuals, families, groups, organizations, and communities are covered.

SWK A632B Generalist Practicum II 3 CR

Contact Hours: 0 + 18
Registration Restrictions: Admission to the MSW program and full-time student status.
Corequisite: .

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.
Corequisite: .
Special Fees.

Part one of the advanced generalist methods sequence. Provides an ecosystemic perspective for understanding people in their social environment. Reviews direct social work practice with multiple systems. Covers specific skills such as advanced problem-solving model for prevention, crisis intervention and multisystemic individual, family and group work. Special attention given to the bio-psycho-social development of dysfunction.

SWK A633B Advanced Generalist Practicum III 3 CR

Contact Hours: 0 + 18
Registration Restrictions: Admission to MSW program, full-time student standing, and advancement to candidacy for the MSW degree.
Corequisite: .

Supervised direct and indirect practice experience under a qualified MSW social work practitioner. The student is expected to perform as an advanced generalist social worker within the agency setting. Emphasis is on application of knowledge, values and ethics, skills, and special issues covered in the MSW curriculum. The student completes 240 practicum hours per semester of work within the agency, following agency policy and procedure.

SWK A634A Social Work Practice IV: Indirect Practice 3 CR

Contact Hours: 3 + 0
Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing.
Special Fees.

Part two of the advanced generalist methods sequence. Provides an ecosystemic perspective for providing services for people in their social environment. Reviews indirect social work practice with programs, staff, organizations, and larger systems. Covers specific advanced generalist roles such as agency administrator, program planner, and community organizer. Specific attention is also given to the challenges encountered when working in larger systems.

SWK A634B Advanced Generalist Practicum IV 4 CR
Contact Hours: 0 + 20
Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing.
Corequisite: .

Supervised direct and indirect practice experience under a qualified MSW social work practitioner. The student is expected to perform as an advanced generalist social worker within the agency setting. Emphasis is on application of knowledge, values and ethics, skills, and special issues covered in the MSW curriculum. The student completes 300 practicum hours per semester of work within the agency, following agency policy and procedure.

SWK A635 Advanced Generalist Integrative Seminar 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the MSW program, full-time student standing, and advancement to candidacy for the MSW degree.
Corequisite: SWK A634B.

Capstone course for the advanced generalist practice sequence. Provides students with the opportunity to integrate ecosystemic theory and advanced problem-solving approaches with direct and indirect practice from the student's field of practice. Provides process for completion of the competency exam.

SWK A642 Human Behavior in the Social Environment 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the MSW program and full-time student status.
Special Fees.

Identification and advanced analysis of various theoretical frameworks for understanding human behavior with emphasis on the interactions between the individual and his/her social environment. Developmental stages and tasks are viewed in the context of social systems and societal institutions with focus on the diverse influences which impact upon human growth and change. Behaviors related to family, group, organizational, and community interactions and their reciprocal influence on individuals are addressed.

SWK A643 Human Diversity in Social Work Practice 3 CR
Contact Hours: 3 + 0
Prerequisites: SWK A642.
Registration Restrictions: Admission to the MSW program and full-time student status.

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.

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 A652 Computers in Human Services 3 CR
Contact Hours: 2 + 3
Registration Restrictions: Graduate Standing.

Provides knowledge of various computerized assessment and management tools for the social worker. Hands on use of programs to assist the practitioner.

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 Social Work Supervision 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

Theories and models of supervision presented. Opportunity to practice supervisory skills in a variety of social service settings.

SWK A655 Social Work Approaches with the Dually Diagnosed 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.

Provide 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 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 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
Registration Restrictions: Post-baccalaureate standing.
Special Fees.
Special Note: May be repeated for credit with a different subtitle.

Focuses on current topics related to social work services, diverse client groups, and fields of practice.

SWK A698 Individual Research Project 3 CR
Contact Hours: 1 + 9
Registration Restrictions: Admission to the MSW program, full-time student standing, and admission to candidacy for the MSW degree.
Grade Mode: Pass/No Pass.

Independent research opportunity for student to complete an applied research project of use to the field practicum site. Utilization of both quantitative and qualitative skills. Completion of the project, including statement of the problem, literature review, design methodology, data analysis, and implications of the findings; culminates the research sequence and graduate experience. Participation in a weekly one-hour seminar with graduate faculty to advise and assist as needed.

TECHNOLOGY - TECH

Offered through the Community & Technical College
Beatrice McDonald Building (BMB), Room 106, 786-6445

TECH A310 NDE for Managers and Technicians 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A107.
Registration Restrictions: Junior standing.
Special Fees.

Provides an understanding of the various methods of nondestructive examination and the scientific principles upon which they are based and how they interact with various technical concerns. Broadens the education of junior/senior students in all technical and professional disciplines relevant to testing objects in a manner that does not affect future usefulness.

TECH A320 Construction Systems 2 CR
Contact Hours: 2 + 0
Prerequisites: ENGL A111.

Investigates and expands knowledge about construction systems, history, future, and career opportunities. The impact of construction on society is investigated and compared with other systems of technology.

TECH A325 Transportation Systems 2 CR
Contact Hours: 2 + 0
Prerequisites: ENGL A111.
Investigates and expands knowledge about transportation systems, industries, history, future, and career opportunities. The impact of transportation on society is investigated and compared with other systems of technology.

TECH A330 Manufacturing Systems 2 CR
Contact Hours: 2 + 0
Prerequisites: ENGL A111.
Investigates and expands knowledge about manufacturing systems, history, future, and career opportunities. The impact of manufacturing on society is investigated and compared with other systems of technology.

TECH A335 Communication Systems 2 CR
Contact Hours: 2 + 0
Prerequisites: ENGL A111.
Investigates and expands knowledge about communication systems, industries, history, future, and career opportunities. The impact of communication on society is investigated and compared with other systems of technology.

TECH A402 Operational Safety 3 CR
Contact Hours: 3 + 0
Study of safety as a vital element of human behavior. Covers governmental influence, hazard awareness and control, operational considerations in the workplace, accidents and planning. Allows students to apply content to occupational specialties.

TECH A412 Advanced Technical Experiences: Discipline Area 1-9 CR
Contact Hours: 0 + 4-36
Registration Restrictions: Junior standing or admission into the VTE graduate program.
Crosslisted with: VE A412.
Special Fees.
Designed to offer students opportunity to participate in activities to increase mastery of their specific vocational discipline. These may include participation in classes offered by industry, proprietary schools or other agencies. Each will be evaluated on an individual basis and must support the student's professional objectives. The national guide to education credit for training programs will be used whenever appropriate.

TECH A415 Accident Investigation 4 CR
Contact Hours: 3 + 3
Prerequisites: TECH A402.
Covers system safety approach to accident investigation. Provides processes and analytical tools for accident investigation and analysis to include: MORT-Management Oversight and Risk Tree, Change Analysis, Barrier Analysis, events and causal factors charting, Root Cause Analysis, mort-based event analysis, Operational Readiness Analysis, Step Analysis and Task Performance Analysis.

TECH A416 Safety Appraisal Methodology 3 CR
Contact Hours: 3 + 0
Prerequisites: TECH A402.
Covers systems methodology for safety appraisals, audits and reviews. Provides processes and methodologies for developing comprehensive appraisal programs which can be applied to all work processes and environments.

TECH A422 Senior Project 3 CR
Contact Hours: 1 + 8
Registration Restrictions: Senior standing and department permission required.
Selection and completion of a project under faculty supervision. Projects are typical of problems which graduates must solve in their career field. Project results are presented in a formal report. Minimum 135 hours total time.

TECH A433 Project Design, Implementation, and Control 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A109 or MATH A107.
Covers principles and practices of project planning, implementation and control. Focus is on the tools and techniques of project planning. Implementation and control applicable to managers and technicians.

TECH A443 Total Quality Leadership 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A109 or MATH A107.
Special Fees.
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
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. Analysis 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.

THR A311 Representative Plays I 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Fine Arts and GER Humanities
A survey course of dramatic literature from Greek drama to 1800. Emphasis is placed upon the playwrights' work and relationship to the production of these plays in their own time and in today's theatre.

THR A312 Representative Plays II 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Fine Arts and GER Humanities
A survey of dramatic literature from 1800 to the present. Emphasis is placed upon the playwrights' work and relationship to the production of these plays in their own time and in today's theatre.

THR A315 Playwriting Workshop 3 CR
Contact Hours: 3 + 0
Study and practice of script development for the stage. Class will involve staged readings of student work.

THR A321 Characterization 3 CR
Contact Hours: 2 + 3
Prerequisites: THR A121.
Intermediate techniques in characterization, script analysis, and their application to scene study.

THR A324 Voice for the Actor 3 CR
Contact Hours: 3 + 0
Prerequisites: THR A121.
Introduces the acting student to a series of exercises specifically to free and increase the expressive power of their natural vocal instrument. Concentration includes relaxation, breath control, and increased vocal range through the development of the human resonating ladder, with the primary goal being emotional honesty. Also some work in articulation.

THR A325 Theatre Speech 3 CR
Contact Hours: 3 + 0
Prerequisites: THR A324.
Continuation of THR 324 with focus on the articulatory components of speech. Through the manipulation of these elements, and in combination with tempo/rhythm, facial posture, resonance focus, lilt patterns, and a knowledge of both history and national character, the acting student will develop an appreciation and systematic approach for the acquisition of foreign dialects.

THR A328 Acting Shakespeare 3 CR
Contact Hours: 2 + 3
Prerequisites: THR A121.
Intensive exploration of text-based analysis of Shakespearean characters. Emphasis will be placed on scene and character study in a studio setting.

THR A329 Combat for the Stage I 3 CR
Contact Hours: 2 + 3
Prerequisites: THR A121 and THR A221.
An introduction to the art of fighting in the theatre. Students are taught basic techniques for unarmed, single rapier, and rapier and dagger combat. Emphasis is placed throughout on safety as well as the effectiveness of the illusion of violence.

THR A330 Combat for the Stage II 3 CR
Contact Hours: 2 + 3
Prerequisites: THR A329.
A continuation of the study begun in THR A329, Combat for the Stage. Students review unarmed and rapier and dagger techniques, and are taught broadsword, and/or quarterstaff and small sword combat. Emphasis is placed throughout on safety as well as the effectiveness of the illusion of violence.

THR A331 Directing I 3 CR
Contact Hours: 3 + 0
Prerequisites: THR A221 and THR A243 and THR A257.
Direction of short plays for drama lab productions.

THR A341 Stagecraft II 3 CR
Contact Hours: 2 + 2
Prerequisites: THR A141.
Advanced problems and techniques of technical theatre production. Course is keyed to recent developments in the technical production areas.

THR A343 Scenic Design II 3 CR
Contact Hours: 3 + 0
Prerequisites: THR A243.
Continuation and expansion of THR 243 reflecting most recent trends in theatre practice. Advanced course teaching more complex techniques. Emphasizes design theory and script analysis with concentration on various rendering and modeling methods.

THR A347 Lighting Design 3 CR
Contact Hours: 3 + 0
Prerequisites: THR A243.
A course in theory and practice of design and execution of lighting and associated electrical effects for the stage. Primary focus will be on theatrical lighting with additional material on related fields.

THR A357 Costume Design and Construction II 3 CR
Contact Hours: 1 + 4
Prerequisites: THR A257.
Advanced work in costume design and construction. This course is a continuation of THR A257.

THR A395 Advanced Practicum: Performance 1-3 CR
Contact Hours: 0 + 1-3
Registration Restrictions: Faculty permission and audition.
Stacked with: THR A195.
Performance practicum for juniors and seniors: advanced participation in mainstage productions as an actor, director, or assistant director.

THR A411 History of the Theatre I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior or senior standing and completion of written communication general college requirements.
Course Attributes: GER Fine Arts and GER Humanities
Study of theatre history from Greek to 1800 period. The history and the influence of different cultures, traditions and technology on the development of the theatre as a social institution.

THR A412 History of the Theatre II 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior or senior standing and completion of written communication general college requirements.
Course Attributes: GER Fine Arts and GER Humanities
Continuation of THR A411. Theatre history from 1800 to modern.

THR A413 Dramatic Theory and Criticism 3 CR
Contact Hours: 3 + 0
Study of theories and criticism of drama and theatrical art from Aristotle to the present.

THR A435 Directing II 3 CR
Contact Hours: 3 + 0
Prerequisites: THR A331.
Advanced directional analysis of a dramatic work and public presentation of a play.

THR A445 Advanced Theatre Production 3 CR
Contact Hours: 0 + 6
Registration Restrictions: Junior level course in area of specialization.
Advanced technical theatre course with emphasis as selected by student in scenery design, lighting, stagecraft, costume, or directing.

THR A480 Theatre Internship 5-15 CR
Contact Hours: 0 + 24-45
Registration Restrictions: Junior standing or permission of department chair.
Special Note: Total of internship activity applicable toward graduation is 15 credits.

Advanced theatre production course with emphasis as selected by students in direction, acting, scenery and lighting, costume design and construction, or theatre management.

THR A490 Selected Topics in Performance 3 CR
Contact Hours: 2 + 3
Prerequisites: THR A121.
Special Note: May be repeated for credit with a change of subtitle.

Current topics in theatrical performance resulting from special demands of the theatre season or special faculty expertise.

THR A491 Selected Topics in Technical Theatre 3 CR
Contact Hours: 2 + 3
Prerequisites: THR A257 or THR A243.
Special Note: See schedules for specific titles being offered.

Current topics in technical theatre theory and practice. Includes studio work.

THR A495 Advanced Practicum: Technical 1-3 CR
Contact Hours: 0 + 1-3
Registration Restrictions: Faculty permission.
Stacked with: THR A295.

Technical practicum for juniors and seniors. Emphasis is on participation in a mainstage production as a significant member of the technical/production crew or design team.

VOCATIONAL EDUCATION - VE

Offered through the Community & Technical College
Beatrice McDonald Building (BMB), Room 106, 786-6445

VE A301 Principles of Technology 3 CR
Contact Hours: 2 + 3
Stacked with: VE A601.
Special Fees.

Application of basic physics to the workplace. Emphasis is on principles of applied physics in areas such as force and force transformers, energy and, power, waves and vibrations, radiation and light, and their application in technology and the workplace.

VE A395 Practicum in Vocational Education 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Faculty permission.
Special Fees.

The pedagogy of basic physics in the workplace. Students observe, evaluate, and present in actual classrooms. Course provides comprehensive introduction to teaching. Students will observe and assess teaching; present actual lessons; plan, evaluate, and revise lessons; participate in development of specific individual objectives; and meet with teachers for further insight into classroom management, methods and strategies, grading practices, discipline, style, activities, professional organizations, etc.

VE A400 Program Planning: PBTE (Topics Vary) .5-10 CR
Contact Hours: 0 + 1-20
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.

Competency based, individualized format. These modules deal with the duties and responsibilities of the vocational teacher in planning, developing and evaluating vocational programs. See module for specific description.

VE A401 Career Education Practices for Vocational Education 3 CR
Contact Hours: 3 + 0
Special Note: Can be applied toward MS degree in Vocational education.

Review of the concept of total career education with a focus on implementing appropriate practices within vocational education. Special emphasis on occupational guidance, employment opportunities, employer-employee relationships, plans for continuing education and occupational versatility.

VE A410 Instructional Planning: PBTE (Topics Vary) .5-3 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.

Competency-based, individualized format. These modules cover the competencies needed by the vocational teacher in planning for classroom and laboratory instruction. Topics include student needs, performance objectives, developing a unit and lesson plans.

VE A411 Philosophical Foundations of Vocational Education 3 CR
Contact Hours: 3 + 0
Stacked with: VE A611.

A study of the theory, development, and philosophical foundations of vocational education and the relationship of vocational education to general education. An overview of secondary and postsecondary vocational education in Alaska; proprietary and applied programs; and concepts of career education. Economic and sociological foundations of vocational education; relevant federal legislation; the role of business and industry; and current issues and trends in vocational education are covered. The major objective of the course is greater understanding of the various factors influencing vocational education.

VE A412 Advanced Technical Experiences: Discipline Area 1-9 CR
Contact Hours: 0 + 4
Registration Restrictions: Junior standing or admission into the VTE graduate program.
Crosslisted with: TECH A412.
Special Fees.

Designed to offer students an opportunity to participate in activities to increase mastery of their specific vocational discipline. These may include participation in classes offered by industry, proprietary schools or other agencies. Each will be evaluated on an individual basis and must support the student's professional objectives. The national guide to education credit for training programs will be used whenever appropriate.

VE A415 Implementing Competency-Based Education: PBTE (Topics Vary) .5-3 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.

Competency-based, individualized format. Modules in this category are designed to assist vocational educators in implementing competency-based curricula within their subject areas. Emphasis on organizing content, facilities and instructional materials.

VE A420 Instructional Execution: PBTE (Topics Vary) .5-16 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.

Competency-based, individualized format. Modules focus on advanced competencies for classroom and laboratory instruction. Topics include effective presentations, demonstrations, oral questioning, demonstrating a manipulative skill, audiovisual materials, conducting field trips and panel discussions. See module for specific description.

VE A425 Assisting Students in Improving Basic Skills: PBTE (Topics Vary) .5-4 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.

Competency-based, individualized format. Modules in this category are designed to assist vocational teachers in improving students' basic skills in the areas of reading, writing, oral communications and math.

VE A430 Instructional Evaluation: PBTE (Topics Vary) .5-3 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. Modules in this category are designed to aid the vocational teacher in evaluating student performance and the quality of instruction provided. Topics include establishing criteria, assessment of knowledge, skills and attitudes and instructional effectiveness. See module for specific description.

VE A435 Teaching Adults: PBTE (Topics Vary) .5-3 CR
Contact Hours: 0 + 1-6
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. These modules are designed to aid the vocational teacher and/or administrator in preparing to work with adult learners, marketing adult education programs, determining individual training needs and planning instruction for adults, and managing and evaluating the instructional process and performance of adults. See modules for specific descriptions.

VE A440 Instructional Management: PBTE (Topics Vary) .5-4.5 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. Modules deal with the responsibilities of the vocational teacher in the management of instruction. Topics include instructional resources, budgets, student safety and organizing and managing vocational laboratories. See module for specific description.

VE A443 Methods of Instruction in Vocational Education 3 CR
Contact Hours: 3 + 0
Prerequisites: ED A321.
Stacked with: VE A643.
An introduction to fundamental processes of instruction. Students develop competencies in various methodologies pertinent to vocational education including developing lesson plans, job sheets, and assignment sheets; lecture; simulation; demonstrations; illustrated talks; individualized instruction; laboratory learning; field trips; exhibits; bulletin boards; competency-based education; etc. Students identify, develop and critique appropriate teaching methods for a given teaching area.

VE A450 Guidance: PBTE (Topics Vary) .5-3.5 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. Modules address the responsibilities of the vocational teacher in advising, counseling and assisting student with career planning and preparation. See module for specific description.

VE A452 Student Teaching: Vocational Education 12 CR
Contact Hours: 3 + 36
Registration Restrictions: Faculty permission. 3.0 GPA in education courses and a 2.5 GPA overall. Recommendation of VTE faculty; current medical exam and tine test.
Grade Mode: Pass/No Pass.
Special Fees.
Provides the capstone experience in the vocational teacher training program. Students will learn from successful teachers in actual classrooms; review, observe, evaluate, and practice the art of teaching. Hands-on apprenticeship in teaching is provided. Requires full-time supervised teaching in an approved Vocational Education Program for the entire semester at the level for which certification is sought. Periodic seminars with university faculty are required. Conducted primarily as a lab course.

VE A455 Serving Special Needs Students: PBTE (Topics Vary) .5-8 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. Modules in this category are designed to aid the vocational teacher in accommodating special needs students in the normal vocational classroom and laboratory environment.

VE A460 School/Community Relations: PBTE (Topics Vary) .5-5 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. These modules are designed to aid the vocational teacher and/or administrator in planning and maintaining effective school/community relations for the vocational program. See module for specific description.

VE A470 Student Vocational Organization: PBTE (Topics Vary) .5-4 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. Modules cover the competencies involved in establishing and supervising student vocational organizations, as an integral part of the vocational curriculum. Topics include developing a philosophy concerning student organizations, preparing students for leadership, handling finances and supervising activities. See module for specific description.

VE A480 Professional Role and Development: PBTE (Topics Vary) .5-5 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. Modules focus on the responsibilities of vocational teachers in serving their profession and advancing professionally. Topics include keeping up-to-date, developing a philosophy, obtaining a position and planning for student teaching. See module for specific description.

VE A490 Coordination of Cooperative Education: PBTE (Topics Vary) .5-6 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. These modules are designed to assist the prospective or present teacher-coordinator in establishing, managing and coordinating a cooperative vocational program. Topics include establishing guidelines, securing training stations, placing students and evaluation. See module for specific description.

VE A495 Technical Internship 3 CR
Contact Hours: 1 + 11
Registration Restrictions: Formal admission into the BST/VTE Program.
Crosslisted with: TECH A495.
Special Fees.
Special Note: May be repeated twice for credit.
Provides work experience as well as a familiarization with supervisory and management practices used by various individuals in business operations, e.g. General manager, production manager, director of quality control, floor supervisor, etc. Requires at least 160 hours work experience and 30 hours of instructor contact time.

VE A601 Principles of Technology 1-3 CR
Contact Hours: .5-2 + 2-3
Level Restriction: Graduate Standing.
Stacked with: VE A301.
Special Fees.
Application of basic physics to the workplace. Emphasis on principles of applied physics in areas such as force and force transformers, energy and power, waves and vibrations, radiation and light, and their application in technology. Students taking this course for graduate credit will emphasize pedagogy involved in presenting this curriculum.

VE A611 Philosophical Foundations of Vocational Education 3 CR

Contact Hours: 3 + 0
Level Restriction: Graduate Standing.
Stacked with: VE A411.
Special Note: Can be applied toward MS degree in Vocational education.

Study of theory, development and philosophical foundations of vocational education. Relationship of vocational education to general education. Overview of vocational education in Alaska, including secondary, postsecondary, proprietary and applied programs along with concepts of career education.

VE A622 Organization and Administration of Vocational Education 3 CR

Contact Hours: 3 + 0
Level Restriction: Graduate Standing.
Special Note: Can be applied toward MS degree in Vocational education.

The principles and practices of organizing and administering vocational programs. Topics will include classroom and laboratory organization, budgeting and operating programs on different levels and for different students.

VE A633 Current Issues in Vocational Education 3 CR

Contact Hours: 3 + 0
Level Restriction: Graduate Standing.
Special Note: Can be applied toward MS degree in Vocational education.

The study and analysis of recent trends, research, and issues concerning vocational education. An examination of research in vocational education, with a focus on evaluation, interpretation and sources. Identification of national and statewide problems, including legislation and special populations.

VE A643 Methods of Instruction in Vocational Education 3 CR

Contact Hours: 3 + 0
Level Restriction: Graduate Standing.
Stacked with: VE A443.
Special Fees.

Introduction to fundamental processes of instruction. Students develop competencies in various methodologies pertinent to vocational education including developing lesson plans, job sheets, and assignment sheets; lecture; simulation; demonstrations; illustrated talks; individualized instruction; laboratory learning; field trips; exhibits; bulletin boards; competency-based education; etc. Students identify, develop and evaluate appropriate teaching methods for a given teaching area. Students will do graduate level research and write papers describing instructional methodologies pertinent to their vocational/technical program area(s).

VE A644 Improving Instruction in Vocational Education 3 CR

Contact Hours: 3 + 0
Level Restriction: Graduate Standing.
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: Graduate Standing.
Special Note: Can be applied toward MS degree in Vocational education.

Designed to prepare students to access and/or develop vocational curriculum. Students identify curriculum development terminology and become familiar with competency-based vocational education (CBVE). Develop, adapt and/or adopt curriculum that addresses problem solving, social/economic impacts and accountability in their vocational education arena. Emphasizes those areas unique to vocational education: task analysis, vocational advisory committees, vocational student organizations, CBVE, and vocational curriculum consortiums.

VE A695 Advanced Professional Experiences: Discipline Area 1-6 CR

Contact Hours: 1-6 + 0
Level Restriction: Graduate Standing.
Special Fees.
Special Note: Credit varies and enrollees are required to seek advisement and faculty approval prior to registration.

Formalized advanced professional experiences in vocational education. Designed to provide academic rigor and a structured environment to the professional development process.

VE A698 Individual Research 1-6 CR

Contact Hours: 1-6 + 0
Level Restriction: Graduate Standing.
Registration Restrictions: Advisor permission.
Special Note: Required course for MS degree in Vocational education.

A research paper/project jointly approved by the student's graduate committee and the student. The research paper/project should coincide with the student's professional objectives. When taken in lieu of written comprehensive exam, an oral defense of project will be required.

VOCATIONAL SKILLS - VS

Offered through Kodiak College
117 Benny Benson, Dr., Kodiak, Alaska, 99615, (907) 486-4161.

VS A100 Beginning Woodworking 2 CR

Contact Hours: 1 + 2

Basics of sound wood design, stock selection, hand and machine tools, cutting and shaping, fastening, surface preparation, stains, and finishes.

VS A125 Woodworking I 3 CR

Contact Hours: 1 + 2
Offered only at Kenai Peninsula College Kachemak Bay branch.

Basic course designed to familiarize the student with the safe use of a variety of modern hand and power tools. Completion of the course may result in the construction of items of personal choice.

VS A126 Woodworking II 3 CR

Contact Hours: 1 + 2
Prerequisites: VS A125.
Offered only at Kenai Peninsula College Kachemak Bay branch.
Special Note: May be repeated once for degree credit.

Continuation of VS A125 with emphasis on more advanced projects and greater individual initiative.

VS A131 Construction for the Owner/Builder I 3 CR

Contact Hours: 3 + 0

Familiarizes students with standard practice construction and alternatives to that practice. Includes the terms/systems involved in construction. Concepts and systems covered are foundations, floors, walls, roof, alternative energy in structures, and alternative structures.

VS A150 Intermediate Woodworking 2 CR

Contact Hours: 1 + 2
Prerequisites: VS A100.
Offered only at Kodiak College.

Advanced use of hand and power tools including the wood lathe. Students will build a variety of assigned projects.

VS A152 Machine Woodworking 3 CR

Contact Hours: 2 + 2
Grade Mode: Pass/No Pass.
Offered only at Matanuska-Susitna College.
Special Note: Each student will design and construct a project that is approved by the instructor.

Designed to gain skills and knowledge in the use of woodworking machinery. Emphasis is placed on the safe operation of power equipment. Instruction in relating to the technology of woods, cabinet and furniture construction techniques, wood finishing, purchasing materials and maintenance of tools and equipment.

VS A200 Advanced Woodworking 2 CR

Contact Hours: 1 + 2
Prerequisites: VS A100.

Advanced version of VS A100 with emphasis on complex assembly techniques. Covers care and use of machines in building items made from wood.

VS A201 Traditional Kayak Construction 3 CR

Contact Hours: 1 + 4
Prerequisites: VS A100.
Offered only at Kodiak College.

Build your own traditional Kodiak or Greenland style kayak. Instruction includes Koniag kayak history and lore. Each class member will build their own sea kayak frame.

WELDING TECHNOLOGY - WELD

Offered through the Community & Technical College
Gordon Hartlieb Building (GHB), Room 111, 786-6475

WELD A101 Gas and Arc Welding 4 CR
Contact Hours: 2 + 6
Special Fees.
Introduces beginning students to welding. First half of course covers oxyacetylene welding, brazing, silver solder, and cast iron welding. Second half covers arc welding. Designed for home and shop welders.

WELD A102 Gas Welding 2 CR
Contact Hours: 1 + 3
Offered only at Kenai Peninsula College.
Covers oxyacetylene welding, brazing, silver solder, and cast iron welding.

WELD A103 Arc Welding 4 CR
Contact Hours: 2 + 6
Offered only at Kenai Peninsula College.
Emphasizes welder certification on open root welding of plate. Open to beginner as well as experienced welder. Students certify on .375 inch plate, open root or with backing, to ASME or AWS code standards.

WELD A104 Arc Welding: Low-Hydrogen Electrodes 4 CR
Contact Hours: 2 + 6
Registration Restrictions: WELD A101 or WELD A103 or arc welding experience.
Offered only at Kenai Peninsula College.
Emphasis on welder certification with low-hydrogen electrodes. Students certify on .500 inch plate with backing to AWS code standards.

WELD A105 Pipe Welding 4 CR
Contact Hours: 2 + 6
Registration Restrictions: Current certification of plate, open root, vertically upward, or pre-test given during registration.
Offered only at Kenai Peninsula College.
Covers welding of pipe in all positions, open root, uphill and downhill. Pipe sizes of 4-6 inch schedule 40.

WELD A106 Pipe Certification 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A105.
Offered only at Kenai Peninsula College.
Involves welding of pipe in all positions, open root, uphill and downhill. Pipe size: 6 inch schedule 80. Students certify on 6 inch schedule 80 uphill procedure to ANSI B31.3 code standard.

WELD A108 Wire Welding 4 CR
Contact Hours: 2 + 6
Offered only at Kenai Peninsula College.
Basic welding of mild steel, stainless steel and aluminum with wire processes. Students use all wires on the current market in class.

WELD A109 TIG Welding 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A101 and WELD A102.
Offered only at Kenai Peninsula College.
Covers welding of aluminum, zinc alloys, copper, magnesium, mild steel and stainless steel.

WELD A110 Blueprint Reading for Pipe Welders 3 CR
Contact Hours: 3 + 0
Offered only at Kenai Peninsula College.
Basic course covering structural, piping, and fabricated components to be welded. Stresses sketching, material lists, welding symbols, and piping isometrics.

WELD A111 Gas Welding and Cutting 4 CR
Contact Hours: 2 + 6
Special Fees.
Special Note: Includes supervised instruction in both welding and cutting and is recommended for entry level students, or anyone who desires to improve their knowledge and skills in this important process.
Introduction to the welding and cutting of mild steels with the oxyacetylene process. Covers welding and cutting safety, types of fuel gases and their combustion characteristics, and manual and automatic equipment.

WELD A112 Shielded Metal Arc Welding (SMAW) 4 CR
Contact Hours: 2 + 6
Special Fees.
Introduction to the welding of mild steels with covered electrodes. Includes welding safety, electric welding equipment, electrode identification and selection, basic joint design, and welding practice on low carbon steel with mild steel electrodes.

WELD A114 Welding of High Strength Steels 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A112.
Special Fees.
Study of metals and their weldability, and establishing preheat and interpass temperatures. All position welding using low hydrogen-type electrodes to AWS Structural Welding Code. Investigates welding characteristics of a variety of electrodes: E6010, E7010, E7108, E8018, E7014, E7024, and others.

WELD A115 Basic Shielded Metal Arc Welding 2 CR
Contact Hours: 1 + 2
Offered only at Kodiak College.
Beginning course designed to teach basics in welding steel, using the shielded metal arc welding (SMAW) process. TV-tape lessons and demonstrations consist of a series of intensive, highly structured skill building exercises in stick welding. Covers four basic joints in all four positions. Also includes brief exposure to cutting techniques with stick, shear, arc/air and oxyacetylene torch.

WELD A116 Intermediate Shielded Metal Arc Welding 2 CR
Contact Hours: 1 + 2
Prerequisites: WELD A115.
Offered only at Kodiak College.
Reviews basic joints in all positions and emphasizes those skills needed to pass practical examination for structural welding in all positions. Covers typical fabrication techniques, electrode selection, fit-up, joint design, hard-facing of steel, cast-iron welding, and cutting techniques.

WELD A121 Pipe Welding Vertical-Down Techniques 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A112.
Special Fees.
Vertical-down welding techniques on carbon steel pipe with high-cellulose electrodes. Includes electrode selection, pipe classifications, fabricated pipe fittings, and interpretation of the API 1104 code.

WELD A122 Advanced Pipe Welding 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A121.
Continuation of vertical down welding to ASME standards. Choice of vertical up welding with low hydrogen electrodes or the fast-freeze type.

WELD A157 Technical Blueprints for Welders 3 CR
Contact Hours: 3 + 0
Designed for those in welding and welding related fields who desire a practical working knowledge of blueprint reading. Oriented to help technical students, apprentices, and journeymen become proficient in reading and interpreting blueprints and welding symbols.

WELD A161 Gas Metal Arc Welding (GMAW) 4 CR
Contact Hours: 2 + 6
Special Fees.
Introduction to welding of mild steels with semi-automatic GMAW process, using carbon dioxide shielding gas and continuously fed wire. Covers arc characteristics, metal transfer modes, electrical characteristics of power supplies, wire feeders, filler metal selection, equipment maintenance, welding defects (their causes and corrections), welding variables, and welding practices to ASME code.

WELD A162 Flux Cored Welding (FCAW) 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A112 or WELD A161.
Special Fees.
Theory and practice of cored wire welding using self-shielded flux core process. Covers physics of arc, metal transfer, electrical characteristics of power supplies, wire feeders, and filler metal selection. Welding performance to American welding society structural welding code.

WELD A172 Physics For Welding 4 CR
Contact Hours: 4 + 0
Introduction to basic concepts of science as applied to welding and nondestructive testing. Mechanics, electricity, magnetism, atomic structure, and thermodynamics as used by technicians.

WELD A174 Basic TIG Welding 4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A111.
Introduction to basic Tungsten-Inert Gas Welding (TIG). Topics include TIG power supplies, torches, inert gases, filler metal selection, and electrical characteristics of the arc. Students WELD both aluminum and stainless steels in laboratory.

WELD A175 Welding Processes and Equipment 4 CR
Contact Hours: 4 + 0
Survey of current welding processes used by welding industry in fabrication and repair. Study of selected electric welding equipment with emphasis on maintenance, installation, and troubleshooting.

WELD A207 Industrial Welding Qualification 2 CR
Contact Hours: 1 + 3
Registration Restrictions: Pre-qualification test.
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Inform, upgrade and qualify current welders in the field. New processes and testing methods will be demonstrated and then used by the student.

WELD A261 Ultrasonic Testing 4 CR
Contact Hours: 2 + 4
Registration Restrictions: MATH A105 recommended.
Theory and application of ultrasonic inspection as applied to welding inspection, corrosion detection, and material thickness evaluation. Training in accordance with ASNT TC-1A, Level 1, requirements.

WELD A262 General Nondestructive Testing 3 CR
Contact Hours: 2 + 2
Principles and application of dye penetrant, magnetic particle, eddy current and chemical testing. Nondestructive testing methods studied provide technician with knowledge and skills to perform tests, conduct inspection, and evaluate results. Testing methods studied are used by welding industry to detect WELD defects, locate corrosion, sort materials, identify structural change, and many other uses.

WELD A263 X-Ray and Radioisotopes, Radiography 4 CR
Contact Hours: 2 + 3
Prerequisites: WELD A112.
Registration Restrictions: WELD A172 recommended.
Special Fees.
In-depth study of theory and application of industrial radiography with emphasis on structural x-ray techniques. General subject matter includes radiation safety, use of survey instruments, exposure techniques, development of radiographic procedures, interpretation of radiographs, equipment design, federal regulations, and other areas of interest.

WELD A273 Gas Metal Arc Welding (Aluminum) 3 CR
Contact Hours: 1 + 4
Prerequisites: WELD A161.
Introduction to the welding of aluminum and its alloys using the semi-automatic Gas Metal Arc Welding process (GMAW). Classification of aluminum alloys with emphasis on correct selection of filler metals. An in-depth study of the physical components of the GMAW process.

WELD A281 Welding Inspection and Code Review 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Knowledge of welding and inspection methods and techniques.
Designed for fourth semester welding technology students, and also for welders and inspectors preparing for AWS CW1 test. Review of numerous welding and inspection techniques employed in construction and fabrication industries in Alaska. Survey of welding codes applying to welding pipelines, pressure vessels, bridges, and buildings.

WELD A287 Welding Metallurgy Applications 5 CR
Contact Hours: 3 + 4
Registration Restrictions: Advanced standing.
Special Fees.
Provides basic metallurgy theory and hands-on experience of preparing samples for examination, conducting metallurgical tests, and evaluating test results.

WELD A310 Applied Evaluation of Components and Materials 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A107.
Registration Restrictions: Acceptance into the BS in Technology.
Non-calculus based study of force analysis of structures by externally applied loads using formulas and mathematical relationships derived using only algebra and trigonometry. Material is based on commonly understood physical concepts and principles.

WELD A410 Advanced Nondestructive Testing 3 CR
Contact Hours: 2 + 3
Prerequisites: WELD A261 and WELD A262 and MATH A105.
Advanced principles of nondestructive testing as related to acoustic emission ultrasonic and eddy current/flux leakage testing. Manual and automatic testing procedures and equipment as related to different materials and testing situations.

WOMEN STUDIES - WS

Offered through the College of Arts and Sciences
Classroom Building K (K), Room 204, 786-4388

WS A200 Introduction to Women's Studies 3 CR
Contact Hours: 3 + 0
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 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.

WS A460 Women's Writing Workshop 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A211.
Special Fees.
Participants explore their identities as women writers through both the study of appropriate contemporary role models and the practice of writing. Each participant contracts with the teacher towards a project goal of turning out professional quality poetry or prose.

WASTEWATER TREATMENT - WWT

Offered through the Community & Technical College
Division of Applied Technologies, Beatrice McDonald Building (BMB), Room 116, 786-6423

WWT A100 Water Treatment Science and Math 1 CR
Contact Hours: 1 + 0
Covers typical water plant unit processes, operator duties, Alaskan water systems, wells and surface water sources, water chemical characteristics, and biological and physical contaminants. Emphasizes simple equations, conversion factors, solving for unknown value, and problem solving by dimensional analysis. Prepares students for Alaska Operator Certification examinations.

WWT A103 Water Treatment Processes 1 CR
Contact Hours: 1 + 0
Special Note: Students should have a basic understanding of high school mathematics/algebra and general science or have completed WWT A100.
Covers specific water plant unit processes, including coagulation, flocculation, filtration, sedimentation, disinfection, and iron and manganese removal. Also includes typical operator duties, maintenance and troubleshooting techniques, an overview of water distribution system components, and a tour of the Anchorage (Ship Creek) Water Treatment Facility.

WWT A107 Wastewater Science and Math 1 CR
Contact Hours: 1 + 0
Covers typical wastewater plant unit processes, typical operator duties, overview of typical Alaskan wastewater systems, wastewater sources, wastewater chemical, biological (primary focus) and physical contaminants, State of Alaska and EPA regulations, simple equations, conversion factors, solving for unknown value, problem solving by dimensional analysis, preliminary and primary treatment techniques, and a tour of the Anchorage (Point Woronzof) Wastewater Treatment Facility.

WWT A109 Wastewater Treatment Processes 1 CR
Contact Hours: 1 + 0
Special Note: Students should have a working knowledge of high school mathematics/algebra and general science or completed WWT A107.
Covers specific wastewater plant unit processes, including activated sludge and variations, physical/chemical, sludge management, and tertiary processes. Also includes typical operator duties, maintenance and troubleshooting techniques, and a tour of the Eagle River Wastewater Treatment facility.

CHAPTER 12

DIRECTORY

Board of Regents
Principal Administrative Officers
Faculty and Administration

BOARD OF REGENTS

Office of Regents' Affairs
Jeannie D. Phillips, Regents' Affairs Officer
University of Alaska
P.O. Box 755300
Fairbanks, Alaska 99775

The Regents of the University of Alaska are appointed by the Governor and are approved by the Legislature.

	Term Expires
Michael J. Burns, President, Anchorage	2005
Chancy Croft, Treasurer, Anchorage	2003
Elsa Froehlich Demeksa, Vice President, Juneau	2005
Mary Jane Fate, Regent, Fairbanks	2001
Sharon D. Gagnon, Regent, Anchorage	1999
Joseph R. Henri, Regent, Anchorage	1999
Michael P. Kelly, Past President, Fairbanks	1999
Annette M. Nelson-Wright, Student Regent, Secretary, Juneau	1999
R. Danforth Ogg, Regent, Kodiak	2001
Joe J. Thomas, Regent, Fairbanks	2003
Lew M. Williams, Jr., Regent, Ketchikan	1999

General Mark Hamilton, President, University of Alaska

PRINCIPAL ADMINISTRATIVE OFFICERS

Edward Lee Gorsuch, Chancellor
Dr. Daniel Johnson, Provost
William Rose, Vice Chancellor for Administrative Services
Linda Berg-Smith, Associate Vice Chancellor for Student Affairs
Timothy Dillon, Vice Chancellor for University Advancement

FACULTY AND ADMINISTRATION

AHMED, IRFAN
Assistant Professor, Business Administration, College of Business and Public Policy. Osmania University, B.A. (1982); Panjab University, International Trade (1983); Indian Institute of Management, M.B.A. (1985). Texas A & M University, Ph.D. (1997).

AJANGO, DEB
Coordinator, Alaska Wilderness Studies, Community and Technical College. University of Wisconsin, B.S. (1984), M.S. (1990).

AKIN, VICKI L.
Assistant Professor, Nursing, College of Health, Education, and Social Welfare. University of South Florida, B.S.N. (1981); Vanderbilt University, M.S.N. (1986).

ALEXANDER, PAUL D.
Assistant Professor, Electronics Technology, Community and Technical College.

ALLEN, VARA D.
Director, AHAINA Student Programs; Assistant Professor, Counseling, Student Services. Savannah State College, B.A. (1983); Georgia Southern University, M. Ed. (1988).

ANDES, NANCY
Assistant Professor, Sociology (Chair), College of Arts and Sciences. Kent State University, B.A. (1976); Cornell University, M.A. (1983), Ph.D. (1984).

ANDRESS, LORETTA M.
Associate Professor, Library Science, Consortium Library. Alaska Methodist University, B.A. (1970); University of Hawaii, M.L.S. (1978).

ANGELL, JOHN E.
Professor Emeritus, Justice, College of Health, Education, and Social Welfare. Michigan State University, B.S. (1965), M.S. (1967), Ph.D. (1975).

ARAJI, SHARON K.
Professor, Sociology, College of Arts and Sciences. University of Idaho, B.S. (1969), M.Ed. (1971); Washington State University, M.A. (1974), Ph.D. (1978).

ARD, SARADELL A.
Professor Emeritus, Art, College of Arts and Sciences. Asbury College, B.A. (1942); University of Michigan, M.A. (1943); Columbia University, B.Ed. (1970).

ARRAS, TRACY L.
Assistant Professor, Geomatics, School of Engineering. California State Polytechnic University, Pomona, B.S. (1986); California State University, Fresno, M.S. (1993).

AUFRECHT, STEVEN E.
Professor, Public Administration (Chair), College of Business and Public Policy. University of California, A.B. (1967); University of Southern California, M.P.A. (1973), Ph.D. (1978).

AVERY, JAMES R.
Professor, Journalism and Public Communications (Chair), College of Arts and Sciences. Brigham Young University, B.A. (1971); University of Utah, M.B.A. (1972).

BABB, GENIE B.
Associate Professor, English, College of Arts and Sciences. Baylor University, B.F.A. (1977); Brown University, M.A. (1989), Ph.D. (1992).

BACHAND, BOB E.
Director, University Police Department, Administrative Services.

BAILEY, RAYMOND P.
Professor, Biological Sciences, Biomedical Program, College of Arts and Sciences. University of California at Riverside, B.A. (1966); California State College at Long Beach, M.A. (1969); The John Hopkins University School of Medicine, Ph.D. (1973).

BAKER, GRANT C.
Assistant Professor, Civil Engineering, School of Engineering. University of Washington, B.S. (1978); University of Alaska Fairbanks, M.S. (1983), Ph.D. (1987).

BANE, GILBERT W.
Professor, Biological Sciences, College of Arts and Sciences, Kodiak College. California State University, B.A. (1954); Cornell University, M.S. (1961), Ph.D. (1963).

BARKER, MARILYN H.
Associate Professor, Biological Sciences, College of Arts and Sciences. Miami University, B.A. (1964); Washington State University, Ph.D. (1970).

BARNES, ALLAN R.
Director, Alaska Statistical Analysis Unit; Associate Professor, Justice, College of Health, Education, and Social Welfare. University of Missouri-St. Louis, B.A. (1969); University of Missouri-Columbia, M.A. (1975); Florida State University, Ph.D. (1983).

BARRETT, HELEN C.
Assistant Professor, Education, College of Health, Education, and Social Welfare. The Fielding Institute, M.A. (1988), Ph.D. (1991).

BEBEY, FRANK A.
Associate Professor, Theater and Dance, College of Arts and Sciences. King's College, B.A. (1964); Pennsylvania State University, M.A. (1966).

BEEBEE, JOHN C.
Associate Professor, Mathematical Sciences, College of Arts and Sciences. Pomona College, B.A. (1963); University of California, Riverside, M.A. (1966); University of Washington, Seattle, Ph.D. (1971).

BEIRNARD, CHARLES A.
Associate Professor, English, College of Arts and Sciences. University of Wisconsin, B.S. (1965), M.S. (1966); Ohio State University, Ph.D. (1979).

BELDEN, GEORGE R.
Associate Professor, Music, College of Arts and Sciences. Bethany College, B.M. (1961); University of Northern Colorado, M.A. (1972); University of North Texas, D.M.A. (1976).

BERG SMITH, LINDA
Associate Vice Chancellor for Student Services. University of Washington, B.A. (1971); University of LaVerne, M.S. (1997).

BERMAN, MATTHEW D.
Professor, Economics, Institute of Social and Economic Research, College of Business and Public Policy. Harvard University, B.A. (1972); Yale University, M.A. (1974), Ph.D. (1977).

BERSCH, GRETCHEN T.
Professor Emeritus, Adult and Developmental Education, College of Health, Education, and Social Welfare. University of Alaska Fairbanks, B.S. (1967); University of Alaska Anchorage, M.Ed. (1973); Florida State University, Ph.D. (1990).

BHAGAT, PARIMAL S.
Assistant Professor, Marketing, College of Business and Public Policy. Regional Engineering College, India, B.S. (1983); University of Delhi, M.B.A. (1986); Pennsylvania State University, Ph.D. (1994).

BILLAUD, JEAN-PAUL
Professor Emeritus, Music, College of Arts and Sciences. Ecole Normale de Musique de Paris, Deplome Superieur do Virtuosite, (1955), License de Concert (1956), International Competitions Laureate: "Viotti," Italy (1956), Paris (1957).

BISH, NANCY K.
Associate Professor, Dental Assisting (Coordinator), Community and Technical College. University of Alaska, B.S. (1984).

BLATCHFORD, EDGAR
Assistant Professor, Journalism, College of Arts and Sciences. Alaska Methodist University, B.A. (1973); Columbia University, M.S. (1988); University of Washington, J.D. (1976).

BOKMAN, JEAN L.
Visiting Instructor, Culinary Arts, Community and Technical College.

BORAAS, ALAN S.
Professor, Anthropology, College of Arts and Sciences, Kenai Peninsula College. University of Minnesota, B.A. (1969); University of Toronto, M.A. (1971); Oregon State University, Ph.D. (1983).

BOZE, KEN M.
Professor, Accounting, College of Business and Public Policy. University of Florida, B.S. (1974); M.B.A. (1975); University of Arkansas, Ph.D. (1983).

BRADLEY, CATHERINE (KAY) A.
Associate Professor, Office Management and Technology, College of Business and Public Policy. University of Wyoming, B.S. (1971); Alaska Pacific University, M.A. (1985).

BRAUND-ALLEN, JULIANNA E.
Assistant Professor, Library Science, Consortium Library, Environment and Natural Resources Institute. University of Alaska Fairbanks, B.A. (1977); Louisiana State University, M.L.S. (1986).

BRAZIER, LYNDA G.
Assistant Professor, Computer Information Systems, College of Business and Public Policy, Kenai Peninsula College. University of Texas, Permian Basin, B.S. (1976).

BREINIG, JEANE, M.
Assistant Professor, English, College of Arts and Sciences. University of Washington, B.S. (1988); M.A. (1989); Ph.D. (1995).

BREMS, CHRISTIANE
Professor, Psychology, College of Arts and Sciences. Oklahoma State University, B.A. (1982), M.S. (1984), Ph.D. (1987).

BROADY, SYLVIA C.
Professor Emeritus, Journalism and Public Communications, College of Arts and Sciences. Michigan State University, B.A. (1948); Wayne State University, M.E. (1956); Michigan State University, Ph.D. (1962).

BROCKMAN, SUSAN J.
Professor, Mathematical Sciences, College of Arts and Sciences, Kodiak College. Colorado State University, B.S. (1964); University of Alaska, Fairbanks, M.S. (1968); Pacific Lutheran University, M.A. (1977).

BRUCE, LAUREN K.
Associate Professor, Communication, College of Arts and Sciences. Southern Illinois University, B.S. (1970), M.A. (1972).

BRUCE, RICHARD L.
Professor, Psychology, College of Arts and Sciences. Whitman College, B.A. (1960); Claremont Graduate School, M.A. (1963), Ph.D. (1967).

BUCKLEY, MARILYN HANF
Professor Emeritus, Education, College of Health, Education, and Social Welfare. San Jose State University, B.A. (1957); University of California, Berkeley, M.A. (1968), Ph.D. (1971).

BUKOWSKI, ARTHUR E.
Professor Emeritus, Mathematical Sciences, College of Arts and Sciences. Ohio University, B.S. (1966), M.S. (1968); University of New Mexico, Ph.D. (1972).

BULLER, THOMAS G.
Assistant Professor, Philosophy, College of Arts and Sciences. University of York, U.K., B.A. (1981); University of Waterloo, Canada, M.A. (1984); University of Tennessee, Ph.D. (1994).

BURGESS, DONNA M.
Associate Professor, Education, College of Health, Education, and Social Welfare. University of Utah, B.S. (1976); Washington State University, M.A. (1980); University of Washington, Ph.D. (1987).

BURY, SUSAN
Visiting Instructor, Adult Basic Education, Community and Technical College. Sonoma State University, B.A. (1966); Northern Arizona University, M.A. (1974).

CAMERLENGO, VIVIAN M.
Associate Professor, Education, College of Health, Education, and Social Welfare. Regis College, B.A. (1962); St. Michaels College, M.Ed. (1972), University of Florida, Ph.D. (1982).

CAMPBELL, LARRY E.
Assistant Professor, Journalism and Public Communications, College of Arts and Sciences. University of Oregon, B.S. (1982).

CAMPBELL, STEVEN V.
Associate Professor, Accounting, College of Business and Public Policy. University of Illinois, B.S. (1979), J.D. (1983); University of Oregon, Ph.D. (1993).

CAREY, OMER L.
Professor Emeritus, Business Administration, College of Business and Public Policy. Wesleyan University, B.A. (1954); Indiana University, M.B.A. (1960), D.B.A. (1962).

CARMON, BERNICE W.
Associate Professor, Nursing, College of Health, Education, and Social Welfare. Bennett College, B.S. (1971); University of North Carolina-Chapel Hill, M.P.H. (1972); Case Western Reserve University, B.S. (1977); University of Alaska Anchorage, M.S. (1992).

CARTER-CHAPMAN, RENÉE M.
Dean, Community and Technical College. University of Alaska, B.A. (1975); University of Michigan, M.A. (1977).

CASTEEL, J. KEENAN
Assistant Professor, Nursing, College of Health, Education, and Social Welfare. Villanova University, B.S.N. (1975); Boston University, M.S. (1976); University of Pittsburgh, Ph.D. (1986).

CHANG, PING-TUNG
Professor, Mathematical Sciences, College of Arts and Sciences, Matanuska-Susitna College. National Taiwan Normal University, Taipei, Taiwan B.Ed. (1960); Indiana State University, M.S. (1966); Georgia State University, Ph.D. (1977).

CHANG, TOH-SOOK P.
Professor, Library Science, Consortium Library. Ewha Woman's University, Seoul, B.A. (1959); State University of New York in Albany, M.L.S. (1963).

CHITTENDEN, JON C.
Assistant Professor, Welding Technology, Community and Technical College. Alaska Pacific University, B.A. (1994).

CHOUDHURY, ASKAR H.
Associate Professor, Business Administration, College of Business and Public Policy. Jahangirnagar University, B.S. (1976); M.S. (1978); Simon Fraser University, Canada, M.Sc. (1986); Arizona State University, Ph.D. (1990).

CHRISTIAN, BARBARA M.
Associate Professor, English, Communication, College of Arts and Sciences, Kenai Peninsula College. St. Cloud State College, B.S. (1970), M.A. (1984).

CLARK, DAYNE L.
Associate Professor, Business & Accounting, College of Business and Public Policy, Kenai Peninsula College. The College of Idaho, B.A. (1969); Boise State University, M.B.A. (1973).

CLEARY, BRIAN J.
Associate Professor, Business Computer Information Systems, College of Business and Public Policy, Kodiak College. Cal Poly, San Luis Obispo, B.A. (1978), M.A. (1981); University of Oregon, Eugene, M.S. (1987), M.A. (1987).

COBLE, SUSAN F.
Assistant Professor, Psychology, College of Arts and Sciences, Kenai Peninsula College. Indiana University, B.A. (1984), Ph.D. (1989).

CONGDON, ROBERT E.
Professor, Justice, College of Health, Education, and Social Welfare. Seattle Pacific College, B.A. (1972); Washington State University, M.A. (1973); Willamette University College of Law, J.D. (1982).

CONNORS, JOSEPH F.
Professor Emeritus, Communication, College of Arts and Sciences. Montana State University, B.A. (1965); University of Montana, M.A. (1970).

COTHREN, RONALD G.
Associate Professor, Geomatics, School of Engineering. Oregon Institute of Technology, B.S. (1980); Oregon State University, M.S. (1982).

COURTNEY, LELAND M.
Assistant Professor, Management Information Systems, College of Business and Public Policy. Southwest Missouri State University, B.S. (1989); University of Texas at Arlington, Ph.D. (1993).

COURTNEY, RALPH E.
Assistant Professor, Library Science, Consortium Library. University of Alaska Anchorage, B.A. (1982); University of Illinois, M.S. (1991).

CRAWFORD, RONALD M.
Professor, History/Geography (Chair), College of Arts and Sciences. University of California at Los Angeles, B.A. (1971), M.A. (1972).

CREHAN, JAMES E.
Visiting Associate Professor, Aviation Technology (Chair), Community and Technical College. Louisiana State University, B.S. (1967); Central Michigan University, M.A. (1976); Naval Postgraduate School, M.A. (1981).

CROFT, TONI W.
Associate Professor, Developmental Education (Chair), Community and Technical College. Stanford University, B.A. (1963); University of Alaska Anchorage, M.Ed. (1989).

CROSMAN, ROBERT
Associate Professor, English, College of Arts and Sciences. University of California at Berkeley, B.A. (1963); Columbia University, M.A. (1965), Ph.D. (1971).

CROSSEN, KRISTINE J.
Assistant Professor, Geology (Chair), College of Arts and Sciences. University of Southern Main, B.A. (1979); University of Maine, M.S. (1985); University of Washington, Ph.D. (1997).

CUCCARESE, SAL V.
Interim Director, Environment and Natural Resources Institute, College of Arts and Sciences. San Diego State University, B.A. (1975); University of Alaska Anchorage, M.A. (1988).

CUNNINGHAM, PATRICK M.
Associate Professor, Social Work, College of Health, Education, and Social Welfare. University of Utah, B.S. (1960); Fordham University, M.S.W. (1964); University of Utah, D.S.W. (1989).

CYPHER, JACK L.
Instructor, Refrigeration and Heating Technology, Community and Technical College, Matanuska-Susitna College.

DALRYMPLE, GAIL C.
Assistant Professor, Nursing, College of Health, Education, and Social Welfare. University of Chicago, B.A. (1963); Alaska Methodist University, B.S.N. (1976); University of Alaska Anchorage, M.S. (1983).

DAU, DAVE L.
Professor, Psychology, College of Arts and Sciences. Eastern Washington State University, B.A. (1971), M.S. (1973).

DAVIES, GARRY
Assistant Professor, Biological Sciences, College of Arts and Sciences. Stephen F. Austin University, B.F. (1967), M.S.F. (1973); Texas A&M University, Ph.D. (1981).

DAVIES, M. HILARY
Professor, Mathematical Sciences (Chair), College of Arts and Sciences. University College of Wales, B.S. (1963), Ph.D. (1966).

DAVIS, DEBORAH C.
Professor, Counseling and Guidance, College of Health, Education, and Social Welfare. The College of Idaho, B.S. (1973); The College of Idaho, ED.M. (1979); Boston University, Ed.D. (1995).

DAVIS, DON I., JR.
Associate Professor, Geomatics, School of Engineering. Ferris State University, A.S. (1981), B.S. (1981); Purdue University, M.S. (1983).

DELAPP, TINA D.
Director, School of Nursing; Professor, Nursing, College of Health, Education, and Social Welfare. Arizona State University, B.S.N. (1969); University of Colorado, M.S. (1972); University of Southern California, Ed.D. (1986).

DENNISON, ELIZABETH J.
Associate Professor, History/Geography, College of Arts and Sciences. University of Colorado, B.A. (1982), M.A. (1986); University of Illinois, Ph.D. (1993).

DEVENNEY, JEAN E.
Associate Professor, Counseling, Social Services, Kenai Peninsula College. Southern Oregon State College, B.S. (1973); Portland State University, M.S. (1989).

DILLON, TIMOTHY J.
Vice Chancellor for University Advancement. Slippery Rock State College, B.S. (1980); Eastern Kentucky University, M.S. (1981).

DIMINO, MICHAEL J.
Director, Biomedical Program (WWAMI); Professor, Biological Sciences, Interim Associate Dean, College of Arts and Sciences. Villanova University, B.S. (1964); Rutgers University, Ph.D. (1971).

DINGES, NORMAN G.
Professor, Psychology, ISER, College of Arts and Sciences. Fort Hayes State University, B.S. (1963); M.S. (1965); Colorado State University, Ph.D. (1970).

DOEBLER, TIMOTHY W.
Director, Culinary Arts and Hospitality, Culinary Arts (Chair), Assistant Professor, Culinary Arts, Community and Technical College. University of the State of New York, B.S. (1992); University of Alaska Anchorage, M.S. (1997).

DOUTHAT, DARYL A.
Professor, Physics, College of Arts and Sciences. Pennsylvania State University, B.S. (1965); University of Chicago, M.S. (1972), Ph.D. (1974).

DOWRICK, PETER W.
Professor Emeritus, Psychology, College of Arts and Sciences. Victoria University of Wellington, B.Sc. (1966); University of Auckland, M.Sc. (1971); Trinity College London, ATCL (1971); University of Auckland, Ph.D. (1977).

DOYLE, MARIE E.
Professor Emeritus, Psychology, College of Arts and Sciences. University of Utah, B.A. (1950), Ph.D. (1961).

DRINKA, DENNIS E.
Assistant Professor, Management Information Systems, College of Business and Public Policy. University of Illinois, B.S. (1973); University of Texas, Ph.D. (1990).

DURGAN, GEORGE S.
Instructor, Architectural and Engineering Technology, Community and Technical College.

DURHAM, JOHN D.
Business Administration, College of Business and Public Policy, Kodiak College. Baker University, B.B.A (1995).

DYBDAHL, CLAUDIA S.
Director, School of Education. Professor, Teacher Education (Chair), College of Health, Education, and Social Welfare. University of Connecticut, B.A. (1966); College of New Rochelle, M.S. (1978); University of Arizona, Ph.D. (1982).

EDGECOMBE, DAVID P.
Associate Professor, Theater, College of Arts and Sciences. California Western University, B.A. (1973); San Diego State University, M.A. (1975); Kent State University, Ph.D. (1986).

EDWARDS, DENNIS M.
Director, Summer Sessions; Professor, Education, College of Health, Education, and Social Welfare. Gannon University, B.A. (1963); Rhode Island College, Ed.M. (1967); University of Illinois, Ed.D. (1971).

EGENOLF, JOHN J.
Associate Professor, Mathematical Sciences, College of Arts and Sciences. University of Santa Clara, B.A. (1964), M.B.A. (1966); California State University, M.S. (1984); University of California, Riverside, Ph.D. (1988).

ELLIOTT, SUSAN A.
Information Technology Librarian. Associate Professor, Library Science, Consortium Library. University of Michigan, B.A. (1972); University of California, M.L.I.S. (1986).

EMMONS, JOSEPH W.
Director, Matanuska-Susitna College. University of Nebraska, B.A (1968); Fort Hays State University, M.S. (1980); University of Kansas, Ph.D. (1994).

ENDER, RICHARD L.
Professor Emeritus, Management Information Systems, Computer Information and Office Systems, College of Business and Public Policy. Kearney State University, B.A. (1967); Syracuse University, Ph.D. (1977).

ENGEL, MARGRITT A.
Professor, Languages, College of Arts and Sciences. McKendree College, B.A. (1959); Southern Illinois University, M.A. (1960); University of Texas, Austin, Ph.D. (1975).

ERIKSON, CHRISTINE A.
Assistant Professor, Art (Interior Design) (Chair), College of Arts and Sciences. Southern Illinois University, B.A. (1977); Bank Street/Parsons School of Design, M.S. (1989).

ESCHENBACH, TED G.
Professor Emeritus, Engineering Management, School of Engineering. Purdue University, B.S. (1971); Stanford University, M.S. (1973), Ph.D. (1975).

ESSAYYAD, MUSA M.
Professor, Finance, Business Administration (Chair), College of Business and Public Policy. Beirut Arab University, B.S. (1973); Southeastern Oklahoma University, M.S. (1975); University of Alabama, M.A. (1984), Ph.D. (1985).

FALLON, ELIZABETH J.
Professor, English, College of Arts and Sciences, Matanuska-Susitna College. State University of New York, B.A. (1961); University of Alaska Fairbanks, M.A. (1966).

FELDMAN, KERRY D.
Professor, Anthropology (Chair), College of Arts and Sciences. St. Thomas College, B.A. (1962); University of Colorado, M.A. (1970), Ph.D. (1973).

FERNANDEZ, RUDY F.
Associate Professor, Accounting, College of Business and Public Policy. University of Southern Colorado, B.S. (1977); University of Colorado, M.B.A. (1988), J.D. (1994).

FICKEL, LETITIA C.
Assistant Professor, Elementary Education, College of Health, Education, and Social Welfare. University of Kentucky, B.A. (1987), M.A. (1990).

FIELDS, LESLIE L.
Assistant Professor, English, College of Arts and Sciences, Kodiak College. Cedarville College, B.A. (1979); University of Oregon, M.A. (1984), M.A. (1985); Goddard College, M.F.A. (1995).

FISCHER, VICTOR
Director Emeritus, Institute of Social and Economic Research, College of Business and Public Policy. University of Wisconsin, B.A. (1948); MIT, M.C.P. (1950); Harvard, M.P.A. (1962).

FISHBURN, TOL M.
Associate Professor, Auto-Diesel Technology, Community and Technical College. University of Utah, B.S. (1984); University of Alaska Anchorage, M.S. (1996).

FISHER, DENNIS G.
Professor, Psychology, IVDU Project, College of Arts and Sciences. University of California at Riverside, B.A. (1971); University of Alaska Anchorage, M.S. (1973); University of Illinois, Ph.D. (1984).

FLANDERS CROSBY, JILL
Associate Professor, Dance, (Coordinator), College of Arts and Sciences. Western Kentucky University, B.A. (1974); New York University, M.A. (1981); Teacher's College, ED.M. (1993); Teacher's College, Columbia University, Ed.D. (1995).

FLOURNOY, RUTH S.
Professor, Mathematical Sciences, College of Arts and Sciences. Queens College, B.S. (1949); Kean College, M.A. (1973).

FORBES, DAVID W.
Associate Professor, English, Humanities, College of Arts and Sciences, Kenai Peninsula College. Alaska Methodist University, B.A. (1969); University of Alaska Anchorage, M.Ed. (1978).

FORSTER, SUZANNE M.
Assistant Professor, English, College of Arts and Sciences. Monteith College, B.A. (1972); University of Alaska Anchorage, M.F.A. (1989).

FORT, C. PATRICK
Assistant Professor, Accounting, College of Business and Public Policy. University of Illinois, B.A. (1976); University of Colorado, M.S. (1988), Ph.D. (1993).

FRASURE, CARL C.
Professor, History, College of Arts and Sciences. Washington State University, B.A. (1968), M.A. (1974); Gonzaga University School of Law, J.D. (1987).

FREEBURG, GARY L.
Professor, Art, College of Arts and Sciences, Kenai Peninsula College. Mankato State University, B.F.A. (1974), M.A. (1978); University of Iowa, M.F.A. (1978).

GEHLER, JAN L.
Associate Professor, Culinary Arts, Community and Technical College. Ohio State University, B.S. (1968); California State University Long Beach, M.A. (1974); Oregon State University, Ed.D (1993).

GEISTAUTS, GEORGE A.
Professor, Business Administration (Master's Chair), College of Business and Public Policy. Rensselaer Polytechnic, B.S. (1963), M.S. (1966), Ph.D. (1970).

GOLDSMITH, O. SCOTT
Professor, Economics, Institute of Social and Economic Research, College of Business and Public Policy. Princeton University, B.A. (1967); University of Wisconsin, M.S. (1972), Ph.D. (1976).

GONZALES, MARIANO
Associate Professor, Art, College of Arts and Sciences. University of Alaska Anchorage, B.A. (1976); Rhode Island School of Design, M.F.A. (1979).

GORDON, WILLIAM L.
Associate Professor, Computer Science, College of Arts and Sciences. University of Hawaii, B.A. (1964), M.B.A. (1972).

GORSUCH, EDWARD LEE
Chancellor; Associate Professor, Economics, College of Business and Public Policy. University of Missouri, B.A. (1964), M.S. (1969).

GRABER, F. ELIZABETH
Associate Professor, English, Communication, College of Arts and Sciences, Kenai Peninsula College. Oregon State, B.A. (1972); Alaska Pacific University, M.A.T. (1989).

GREEN, G. HAYDEN
Dean; Professor, Business Administration, College of Business and Public Policy. Northern Arizona University, B.A. (1963); Pepperdine University, M.B.A. (1969); University of Arkansas, Ph.D. (1974).

GREEN, JUDITH F.
Assistant Professor, Library Science, Consortium Library. Colorado Women's College, B.A. (1976); University of South Florida, M.A. (1993);

GUETSCHOW, PAULA S.
Associate Professor, English, College of Arts and Sciences. University of British Columbia, B.A. (1967); University of Oregon, M.A. (1968).

GUILLEMIN, MARYVONNE H.
Assistant Professor, Languages, College of Arts and Sciences. Lycee de Vanne, France, B.A. (1968); University of Alaska Anchorage, M.A.T. (1992).

GULICK, ANGELA M.
Assistant Professor, English, College of Arts and Sciences. Iowa State University, B.S. (1989), B.A. (1989), M.A. (1991).

HAIG, JOAN M.
Professor, Mathematical Sciences, College of Arts and Sciences. State University of New York, B.S. (1968); Kansas State University, M.S. (1970).

HAINES, LEWIS E.
Provost Emeritus Southcentral Region; Professor Emeritus, Education, College of Health, Education, and Social Welfare. Middlebury College, B.A. (1943); Columbia Teachers College, M.A. (1950); Washington State University, Ph.D. (1960).

HALEY, MICHAEL C.
Professor, English, College of Arts and Sciences. University of Alabama, B.A. (1969), M.A. (1969); Florida State University, Ph.D. (1975).

HALEY, SHARMAN
Assistant Professor, Public Policy, ISER, College of Business and Public Policy. Radcliffe College, B.A. (1974); University of California at Berkeley, Ph.D. (1993).

HAMMER, DOUGLAS E.
Director, Kodiak College. Utah State University, B.S. (1968); M.Ed. (1974); University of Idaho, Ed.D. (1984).

HANEY, RONALD W.
Professor, Aviation Technology, Community and Technical College. Auburn University, B.A.A. (1968); University of Tennessee, M.S. (1988).

HANSON, CHRISTINE L.
Associate Professor, Anthropology, College of Arts and Sciences. University of California at Berkeley, B.A. (1969); Case Western Reserve University, M.A. (1973); Arizona State University, Ph.D. (1986).

HARADA, HIROKO
Assistant Professor, Japanese, College of Arts and Sciences. Baika Women's College, B.A. (1977), M.A. (1979);University of New Hampshire, M.A. (1982); University of Illinois, Ph.D. (1997).

HARRISON, VIOLA M.
Associate Professor, English, College of Arts and Sciences, Matanuska-Susitna College. Lewis and Clark College, B.A. (1959); University of Alaska Anchorage, M.A.T. (1975); Fielding Institute, Ph.D. (1992).

HARVILLE, BARBARA A.
Associate Professor, Communication, College of Arts and Sciences. California State University, B.A. (1987), M.A. (1989).

HATCH, MARTHA A.
Associate Professor, Biological Sciences, College of Arts and Sciences. Western Washington University, B.A. (1973); University of Alaska Fairbanks, B.S. (1978), M.S. (1986).

HAYCOX, STEPHEN W.
Professor, History, College of Arts and Sciences. Seattle University, B.A. (1966); University of Oregon, M.A. (1967), Ph.D. (1971).

HAYS, MARJORIE J.
Professor, Psychology, College of Arts and Sciences, Kenai Peninsula College. Sterling College, B.A. (1955); Miami University, M.Ed. (1970); Walden University, Ph.D. (1982).

HEASLEY, LESLIE W.
Professor, Chemistry, College of Arts and Sciences. University of Idaho, B.S. (1965); Oregon State University, Ph.D. (1970).

HELENS, JOYCE M.
Associate Dean, Workforce and Community Development (Coordinator), Community and Technical College.

HENDRICKSON, PAUL C.
Visiting Assistant Professor, Counseling, Student Services. Bemidji State University, B.S. (1975); M.S. (1980).

HENSEL, GLORIA J.
Assistant Professor, Office Management and Technology, College of Business and Public Policy, Matanuska-Susitna College. Columbia Union College, B.S. (1969); University of Alaska Anchorage, M.S. (1996).

HERRICK, PAUL E.
Associate Professor, Aviation Maintenance Technology, Community and Technical College. Utah State University, B.S. (1985); Arizona State University, M.T. (1989).

HERSHBERGER, SANDRA S.
Instructor, Library Science, Library, Kenai Peninsula College. University of Washington, B.A. (1989), M.L.S. (1991).

HILL, PERSHING J., JR.
Associate Professor, Economics, College of Business and Public Policy. Idaho State University, B.S. (1967); Washington State University, Ph.D. (1976).

HILPERT, JOHN M.
Professor Emeritus, Engineering Management, School of Engineering. Oregon State University, B.S. (1938); George Washington University, M.A. (1947); University of Iowa, Ph.D. (1956).

HINES, MARK E.
Associate Professor, Biological Sciences, ENRI, College of Arts and Sciences. Ohio State University, B.S. (1973); University of Connecticut, M.S. (1978); University of New Hampshire, Ph.D. (1981).

HINTERBERGER, TIMOTHY J.
Associate Professor, Biological Sciences, Biomedical Program, WWAMI, College of Arts and Sciences. University of Illinois, B.S. (1976), M.S. (1981), Ph.D. (1987).

HITCHINS, DIDDY R.
Director, Canadian Studies; Professor, Political Science (Chair), College of Arts and Sciences. University of Southampton, U.K., B.Sc. (1967); University of Essex, U.K., M.A. (1969), Ph.D. (1975).

HOLMBERG, ERIC G.
Associate Professor, Chemistry (Chair), College of Arts and Sciences. Niagara Falls University, B.S. (1983); SUNY at Binghamton, Ph.D. (1987).

HOLTZMAN, GAIL M.
Assistant Professor, Nursing, College of Health, Education, and Social Welfare. Medical College of Virginia - Virginia Commonwealth University, B.S. (1987); University of Texas Health Science Center, M.S. (1989).

HONG, PATRICIA A.
Professor, Nursing, College of Health, Education, and Social Welfare. University of Maryland, Baltimore, B.S. (1972); University of Washington, Seattle, M.A. (1976).

HOUTZ, ALLEN D.
Professor, Petroleum Technology, Community and Technical College, Kenai Peninsula College. Washington State University, B.S. (1968); University of Connecticut, M.S. (1991).

HOWARD, DENNIS D.
Assistant Professor, Computer Information Office Systems, College of Business and Public Policy. Pacific Lutheran University, B.S. (1964); Wichita State University, M.S. (1970).

HUGHES, EILEEN K.
Assistant Professor, Teacher Education, College of Health, Education, and Social Welfare. Whittier College, B.S. (1973); University of Madison, Wisconsin, M.S. (1981); University of Oregon, Ph.D. (1992).

HUSKEY, TERRY LEE
Professor, Economics, College of Business and Public Policy. University of Missouri, B.A. (1969); Washington State University, M.A. (1972); Washington University, Ph.D. (1977).

ILIFF, CHARLES H.
Professor Emeritus, Business Computer Information Systems, College of Business and Public Policy. Lake Forrest College, B.S. (1967); Babson College, M.B.A. (1974); Boston University, Ph.D. (1994).

INNES-TAYLOR, CATHERINE E.
Collection Development Officer; Professor, Library Science, Consortium Library. Western Washington State University, B.Ed. (1967); University of Oregon, M.L.S. (1971).

JACKSTADT, STEPHEN L.
Director, Center for Economic Education; Professor, Economics (Chair), College of Business and Public Policy. University of California at Los Angeles, B.A. (1965), M.A. (1967); University of Hawaii, M.Ed. (1973); Indiana University, Ed.D. (1981).

JACOBS, JAMES H.
Assistant Professor, Computer Science, College of Arts and Sciences. California Institute of Technology, B.S. (1979); University of California, M.S. (1988); University of Utah, Ph.D. (1994).

JACOBS, SCOTT R.
Associate Professor, Business Administration, College of Business and Public Policy, Kenai Peninsula College. University of Illinois, B.S. (1967); University of Minnesota, B.S. (1972), M.A. (1975).

JACOBS, WILLIAM A.
Professor, Political Science, College of Arts and Sciences. Wisconsin State University, Eau Claire, B.S. (1966); University of Oregon, M.A. (1968), Ph.D. (1972).

JAMIN, CHRISTINE F.
Assistant Professor, Counseling, Student Services, Kodiak College. The College of St. Rose, B.A. (1968); Oregon State University, M.ED. (1981).

JANIS, MARY KAY SCHMITT
Professor, Biological Sciences, Biomedical Program, WWAMI, College of Arts and Sciences. University of Nebraska, B.S. (1964), M.A. (1965); University of Utah, B.S. (1978), Ph.D. (1982).

JANKE, JILL R.
Professor, Nursing, College of Health, Education, and Social Welfare. University of Utah, B.S.N. (1973); Montana State University, M.N. (1981); Rush University, D.N.Sc. (1991).

JEFFRIES, FRANK L.
Assistant Professor, Business Administration, College of Business and Public Policy. Eastern Washington University, B.A. (1978), M.B.A. (1982); Washington State University, Ph.D. (1996).

JENKINS, PATRICIA M.
Assistant Professor, English, College of Arts and Sciences. Towson State University, B.A. (1980); Salisbury State University, M.A. (1988); Purdue University, Ph.D. (1997).

JENNINGS, MICHAEL L.
Director, Alaska Native Studies. Assistant Professor, Political Science, College of Arts and Sciences. University of Alaska, Fairbanks, B.A. (1986), M.ED. (1987); University of British Columbia, Ph.D. (1994).

JENSEN, CHRISTINE M.
Visiting Assistant Professor, Educational Development and Leadership (Chair), College of Health, Education, and Social Welfare. Western Oregon State College, B.A. (1968), M.S. (1978); East Texas State University, D.Ed. (1987).

JOHNSON, DANIEL M.
Provost; Texas Christian University Ft. Worth, B.A. (1963); Texas Christian University, M.A. (1965); University of Missouri Columbia, Ph.D. (1973)

JOHNSON, ERIE V.
Associate Professor, Vocational Education, Division of Applied Technologies (Chair), Community and Technical College. Chico State College, B.S. (1967); California State Polytechnic College, M.A. (1969); University of Wyoming, Ed.S (1972); University of Northern Colorado, Ed.D. (1977).

JOHNSON, MARK E.
Professor, Psychology, College of Arts and Sciences. University of California, Santa Barbara, B.A. (1977), M.A. (1982), Ph.D. (1985).

JOHNSON, PAUL R.
Associate Professor, Business Administration, College of Business and Public Policy. MacQuarie University Australia, B.A. (1978); University of Rochester, M.A. (1982); Ph.D. (1985).

JOHNSON, STANLEY W.
Dean Emeritus, College of Arts and Sciences. Graceland College, A.A. (1948); Whitworth College, B.A. (1950); University of Missouri, M.Ed. (1956); University of Nebraska, Ed.D. (1962).

JOHNSON, STEVEN L.
Assistant Professor, Communication (Co-Director), Forensics, College of Arts and Sciences. Moorhead State University, B.A. (1990); Colorado State University, M.A. (1992).

JOHNSON, VIRGINIA R.
Professor, Secondary Education, College of Health, Education, and Social Welfare. Colorado State University, B.A. (1957); University of Northern Colorado, M.A. (1974), Ed.D. (1976).

JONES, GARTH N.
Professor Emeritus, Public Policy and Administration, College of Business and Public Policy; Organizational Theory and Behavior and Management, College of Business and Public Policy. Utah State University, B.S. (1947); University of Utah, M.A. (1948), Ph.D. (1954).

JONES, ROBB
Visiting Assistant Professor, Air Traffic Control, Community and Technical College. Embry-Riddle Aeronautical University, B.S. (1983); Troy State University, M.S. (1995); LaSalle University, Ph.D. (1996).

JORDAN, PAUL C.
Professor, Business Administration, College of Business and Public Policy. City University of New York, B.S. (1963); University of Iowa, M.S. (1965); North Carolina State University, Ph.D. (1981).

KALINA, SUSAN M.
Assistant Professor, Languages (Associate Chair, Pacific Rim and German Languages), College of Arts and Sciences. Carleton College, B.A. (1984); University of Michigan, M.A. (1987), Ph.D. (1994).

KALKOWSKI, MEL P.
Director, University Relations. University of Alaska, Anchorage, B.A. (1991).

KAPPES, BRUNO MAURICE
Professor, Psychology (Director, Psychology Services), College of Arts and Sciences. University of Missouri, B.A. (1973), M.A. (1975); Kansas State University, Ph.D. (1978).

KASSIER, THEODORE L.
Dean; College of Arts and Sciences. Professor, Spanish, College of Arts and Sciences. Columbia College, B.A. (1966); Princeton University, M.A. (1968), Ph.D. (1972).

KATASSE, CONSTANCE C.
Professor, English, College of Arts and Sciences (Coordinator, ESL/ASL). Eckerd College, B.A. (1972); University of Alaska, M.A.T. (1976); The Union Institute, Ph.D. (1994).

KAULITZ, GARRY C.
Associate Professor, Art, College of Arts and Sciences. Rochester Institute of Technology, B.F.A. (1964), M.F.A. (1965).

KAZOR, ELLEN D.
Professor, Dental Hygiene, Community and Technical College. East Stroudsburg State College, B.S. (1971); University of Alaska Anchorage, M.Ed. (1983).

KEIL, CAROLYN P.
Associate Professor, Nursing, College of Health, Education, and Social Welfare. University of North Carolina, B.S. (1964); University of Kansas, M.N. (1974), Ph.D. (1990).

KELLEY, LAURA W.
Professor, Human Services, College of Health, Education, and Social Welfare. Roanoke College, B.A. (1969); North Carolina University, M.A. (1974).

KENNISH, JOHN M.
Professor, Chemistry, College of Arts and Sciences. Rutgers University, A.B. (1967); Shippensburg University, M.S. (1973); Portland State University, Ph.D. (1978).

KILEY, DEBORAH B.
Assistant Professor, Nursing, College of Health, Education, and Social Welfare. University of San Francisco, B.S.N. (1973); University of California, Los Angeles, M.N. (1983).

KIRK, SARAH J.
Visiting Instructor, Developmental Education, English, Community and Technical College. Willamette University, B.A. (1986); University of Oregon, M.A. (1991).

KLINE, DANIEL T.
Assistant Professor, English, College of Arts and Sciences. University of Alabama, B.A. (1983), M.A. (1985); The Southern Baptist Theological Seminary, M.Div. (1989); Indiana University, Ph.D. (1994).

KNAPP, GUNNAR P.
Professor, Economics, Institute of Social and Economic Research, College of Business and Public Policy. Yale University, B.A. (1975), Ph.D. (1981).

KNOX, COREY J.
Research Instructor, Psychology, College of Arts and Sciences. University of Wisconsin, B.A. (1988); University of Alaska Anchorage, M.A. (1993).

KOPACZ, EVA Y.
Assistant Professor, Social Work, College of Health, Education, and Social Welfare. Goshen College, B.A. (1972); Western Michigan University, M.S. (1974).

KOSHIYAMA, LYNN K.
C.P.A. Associate Professor, Accounting, College of Business and Public Policy. University of Alaska Fairbanks, B.B.A. (1975); Alaska Pacific University, M.B.A. (1991).

KRAXBERGER, SCOTT L.
Assistant Professor, Business Computer Information Systems, College of Business and Public Policy, Kenai Peninsula College. Northern Arizona University, B.S. (1988), M.B.A. (1992).

KRUSE, JOHN A.
Professor Emeritus, Public Policy, College of Business and Public Policy. Williams College, B.A. (1972); University of Michigan, M.R.P. (1975), Ph.D. (1975).

KUDENOV, JERRY D.
Professor, Biological Sciences, College of Arts and Sciences. University of California, B.A. (1968); University of the Pacific, M.Sc. (1970); University of Arizona, Ph.D. (1974).

KUHNER, ARLENE E.
Professor Emeritus, English (Posthumously), College of Arts and Sciences. Seattle University, B.A. (1960); University of Washington, M.A. (1966), Ph.D. (1978).

KUHNER, ROBERT H.
Professor, Philosophy, College of Arts and Sciences. Seattle University, B.S. (1963); Western Reserve University, M.A. (1966).

KULLBERG, RICHARD W.
Professor Emeritus, Biological Sciences, College of Arts and Sciences. University of Oregon, B.S. (1967); McGill University, M.Sc. (1968), Ph.D. (1974).

LAMPMAN, CLAUDIA B.
Associate Professor, Psychology, College of Arts and Sciences. Boston University, B.A. (1984); Loyola University, M.A. (1987), Ph.D. (1990).

LANGDON, STEPHEN J.
Professor, Anthropology, College of Arts and Sciences. Stanford University, B.A. (1970), M.A. (1972), Ph.D. (1977).

LANGWORTHY, ROBERT H.
Director, Justice Center. Professor, Justice, College of Health, Education, and Social Welfare. Utah State University, B.A. (1973); Mankato State College, M.A. (1973); State University of New York, Albany, Ph.D. (1983).

LAUTARET, RONALD L.
Professor Emeritus, Library Science, Consortium Library. Southern Colorado State College, B.A. (1966); University of Washington, M.L.S. (1969); Western New Mexico University, M.A. (1979).

LAUTENBERGER, FRANCES E.
Professor, Theatre (Chair), College of Arts and Sciences. Douglass College, B.A. (1979); University of Connecticut, M.F.A. (1984).

LAZZELL, LINDA P.
Dean of Students, Student Services. University of Colorado, Boulder, B.S. (1979); University of Laverne, M.S. (1995).

LEE, LINDA L.
Associate Professor, Developmental Education, Mathematical Sciences, Community and Technical College. Arizona State University, B.S. (1971); University of Oregon, M.S. (1976).

LEGLER, GRETCHEN T.
Assistant Professor, Creative Writing and Literary Arts; Co-Director, Women's Studies, College of Arts and Sciences. Macalester College, B.A. (1984); University of Minnesota, M.A. (1991), Ph.D. (1994).

LESH, NANCY L.
Distance Delivery and Alaskan Librarian; Associate Professor, Library Science, Consortium Library. Willamette University, B.S. (1966); Simmons College, M.L.S. (1967).

LIBURD, CAEDMON A.
Associate Professor, History, College of Arts and Sciences. Bowdoin College, B.A. (1969); Yale University, M.Ph. (1972).

LICKA, CHARLES (SEAN) E.
Associate Professor, Art, College of Arts and Sciences. University of Colorado, B.A. (1966), M.A. (1969); University of Washington, Ph.D. (1995).

LINTON, PATRICIA W.
Associate Professor, English, College of Arts and Sciences. College of Notre Dame of Maryland, B.A. (1966); Johns Hopkins University, M.L.A. (1970), M.A. (1973); Indiana University of Pennsylvania, Ph.D. (1996).

LISZKA, JAMES J.
Professor, Philosophy (Chair), College of Arts and Sciences. Indiana University at Pennsylvania, B.S. (1972); University of South Carolina, M.A. (1974); New School for Social Research, Ph.D. (1978).

LIU, HELEN
Assistant Professor, Structural Engineering, School of Engineering. Beijing Polytechnic University, B.S. (1963), M.S. (1981); State University of New York at Buffalo, Ph.D. (1990).

LOVELAND, SUSAN M.
Assistant Professor, Mathematical Sciences, College of Arts and Sciences. Utah State University, B.S. (1984), M.S. (1985), Ph.D. (1990); University of Utah, M.Stat. (1994).

LUETHGE, SUSAN E.
Associate Professor, Dental Hygiene, Community and Technical College. Ferris State University, B.S. (1985), M.S. (1987).

MAAS, DAVID C.
Professor Emeritus, Political Science, College of Arts and Sciences. State University of New York, B.A. (1967); California State University, M.A. (1971); University of Colorado, Ph.D. (1977).

MADIGAN, ROBERT J.
Professor, Psychology, College of Arts and Sciences. Seattle University, B.S. (1966); University of California at Los Angeles, M.S. (1968), Ph.D. (1970).

MADSEN, ELIZABETH K .
Librarian; Professor, Library Science, Matanuska-Susitna College. Western Washington State University, B.A. (1966); University of Hawaii, M.L.S. (1972); Stanford University, M.A. (1985).

MAGEN, RANDY H.
Associate Professor, Social Work, College of Health, Education, and Social Welfare. Michigan State University, B.A. (1979); University of Wisconsin, M.S.W. (1987), Ph.D. (1992).

MAGUIRE, PAUL A.
Associate Professor, Education, College of Health, Education, and Social Welfare, Matanuska-Susitna College. Bridgewater State College, B.S. (1978); University of Wisconsin, M.S. (1980); Oregon State University, Ph.D. (1985).

MALONEY, ROBERT C.
Professor, Accounting (Chair), College of Business and Public Policy. Eastern Kentucky University, B.B.A. (1971); Miami University, M.B.A. (1972).

MANN, CHERYL M.
Associate Professor, Human Services; College of Health, Education, and Social Welfare. University of Alaska Anchorage, B.S.W. (1981); Arizona State University, M.S.W. (1982); University of Phoenix, M.A. (1982).

MANN, KRISTINE E.
Professor, Biological Sciences, College of Arts and Sciences. McGill University, B.Sc. (1964), M.SC. (1967), Ph.D. (1973).

MARTINS, DONALD H.
Professor, Physics/Astronomy (Chair), College of Arts and Sciences. University of Missouri, B.S. (1967), M.S. (1969); University of Florida, Ph.D. (1974).

MARX, DONALD L.
Professor, Business Administration, College of Business and Public Policy. Kansas State University, B.S. (1961); University of Houston, M.B.A. (1971), Ph.D. (1974).

MASELKO, JERZY
Associate Professor, Chemistry, College of Arts and Sciences. Technical University of Wroclaw, Poland, M.S. (1968), Ph.D. (1974).

MASSAY, GLENN F.
Director Emeritus, Matanuska-Susitna College. California State College, B.S. (1959); West Virginia University, M.A. (1962), Ph.D. (1970).

MASTROYANIS, S. GEORGE
Associate Professor, Foundations of Education, College of Health, Education, and Social Welfare. University of Natal, South Africa, B.A. (1965), B.Ed. (1971); University of Lancaster, United Kingdom, M.A. (1974); University of Georgia, Athens, Ph.D. (1986).

MCCARRISTON, LINDA J.
Professor, Creative Writing and Literary Arts, College of Arts and Sciences. Emmanuel College, B.A. (1965); Goddard College, M.F.A. (1978).

MCCAULEY, ROBERT D.
Associate Professor, Welding Technology, Community and Technical College. Northern Arizona University, B.S. (1975).

MCCOY, ROBERT O.
Professor, Mathematical Sciences, College of Arts and Sciences. University of California at Santa Barbara, B.A. (1969); University of Idaho, M.S. (1972).

MCDIARIMID, G. WILLIAMSON
Director, Institute of Social and Economic Research; Professor, Educational Policy, College of Business and Public Policy. University of North Carolina, B.A. (1969); Harvard University, Ed.D. (1984).

MCKAY, J. ELLEN
Associate Professor, Architectural and Engineering Technology, Community and Technical College. University of Alaska Anchorage, B.A. (1977), M.S. (1997).

MCKEOWN, MICHAEL P.
Professor, Human Services (Chair), College of Health, Education, and Social Welfare. University of Alaska Anchorage, B.A. (1974), M.S. (1975).

MCNEILL, ALEXANDER W.
Dean, College of Health, Education, and Social Welfare. University of Oregon, B.S. (1965), M.S. (1967), Ph.D. (1973).

MEARS, JOHN R.
Assistant Professor, Electronics Technology, Community and Technical College. California State Polytechnic University, B.S. (1962).

MELL, WILLIAM
Assistant Professor, Educational Leadership, College of Health, Education, and Social Welfare. Alaska Methodist University, B.A. (1966); Western Washington State College, M.A. (1972); University of Southern California, Ed.D (1982).

MEYER, GREGORY J.
Associate Professor, Psychology, College of Arts and Sciences. University of Illinois, B.S. (1983); Loyola University of Chicago, M.A. (1987), Ph.D. (1990).

MIELKE, DANIEL M.
Instructor, Refrigeration Technology, Community and Technical College, Matanuska-Susitna College. University of Alaska Matanuska-Susitna, A.S. (1978).

MILLER, BARBARA J.
Associate Professor, Electronics Technology, Community and Technical College. McGill University, B.S. (1978); Colorado Technical College, B.S. (1989), University of Alaska Anchorage, M.S. (1994).

MILLER, FRITZ W.
Associate Professor, Welding Technology, Community and Technical College, Kenai Peninsula College. Oregon State University, B.S. (1974).

MILLER, ROBERT E.
Director, School of Engineering; Professor, Civil Engineering, School of Engineering. University of Pennsylvania, B.S. (1961); Lehigh University, M.S. (1967); University of Colorado, Ph.D. (1972).

MILLER, THOMAS P.
Professor, Engineering, School of Engineering. University of Maryland, B.S. (1972); University of Virginia, M.E.E. (1987).

MILLIGAN, E. DEAN
Professor Emeritus, Biological Sciences, College of Arts and Sciences. Colorado State University, B.S. (1966); University of Northern Colorado, D.A. (1976).

MIRANDA, FRANCISCO
Visiting Assistant Professor, Spanish, College of Arts and Sciences. California State University, B.A. (1987); Yale University, M.A. (1991), M.Phil. (1991), Ph.D. (1993).

MISHLER, BARBARA E.
Professor, English, Speech, College of Arts and Sciences, Matanuska-Susitna College. Gettysburg College, B.A. (1959); University of Colorado, M.A. (1967); University of Oregon, Ph.D. (1992).

MITCHELL, JOHN H.
Associate Professor, Mathematical Sciences, College of Arts and Sciences. Cornell University, B.S. (1969); University of Washington, M.S. (1977).

MITCHELL, TOM C.
Assistant Professor, Aviation Maintenance Technology, Community and Technical College. University of Alaska Anchorage, B.S. (1997).

MOHR, DON E.
Professor, History, College of Arts and Sciences. University of Alaska Anchorage, B.A. (1974); University of Oregon, M.A. (1974).

MOORE, JUDITH K.
Professor, English, College of Arts and Sciences. University of Oklahoma, B.A. (1965), M.A. (1967); Cornell University, Ph.D. (1970).

MOREHOUSE, THOMAS A.
Professor Emeritus, Institute of Social and Economic Research, College of Business and Public Policy. Harvard College, B.A. (1960); University of Minnesota, M.A.P.A. (1961), Ph.D. (1968).

MORGAN, ROBERTA H.
Professor Emeritus, Psychology, College of Arts and Sciences. University of Alaska Fairbanks, B.A. (1966); Arizona State University, M.S. (1972), Ph.D. (1977).

MORLEY, MAX J.
Professor Emeritus, Automotive and Diesel Technology, Community and Technical College. Oregon Technical Institute, B.T. (1969); University of Alaska Juneau, M.S. (1987).

MORRISON, JAMES H.
Associate Professor, Counseling, Student Services, Kenai Peninsula College. Mt. Angel Seminary College, B.A. (1968); Alaska Methodist University, M.A. (1975).

MORSE, CHAD E.
Clinical Assistant Professor, Social Work, College of Health, Education, and Social Welfare. Harding University, B.A. (1985); Washington University, M.S.W. (1987).

MULLER, JAMES W.
Professor, Political Science, College of Arts and Sciences. Harvard College, A.B. (1973); Harvard University, A.M. and Ph.D. (1982).

MUMMA, CHRISTINA M.
Associate Professor, Nursing-Graduate Program (Chair), College of Health, Education, and Social Welfare. San Jose State College, B.S. (1969); University of Washington, Seattle, M.S.N. (1977); University of Washington, Ph.D. (1984).

MURRAY, KATHLEEN T.
Manager, Health Sciences Information Services. Associate Professor, Library Science, Consortium Library. University of Washington, B.A. (1975), M.L.S. (1976).

NAGY, LOUIS JR.
Visiting Assistant Professor, Aviation Technology, Community and Technical College. University of Alaska Anchorage, B.S. (1997).

NAMIAS, JUNE
Associate Professor, History, College of Arts and Sciences. University of Michigan, B.A. (1962); Harvard Graduate College, M.A.T. (1963); Brandeis University, Ph.D. (1989).

NARANG, DEBORAH L.
Assistant Professor, Mathematical Sciences, College of Arts and Sciences. Capital University, B.A. (1983), Ohio State University, M.S. (1985); University of New Hampshire, Ph.D. (1994).

NARANG, KAMAL
Assistant Professor, Mathematical Sciences, College of Arts and Sciences. University of Allahabad, India, B.Sc. (1968), M.Sc. (1970), M.Sc. (1973); The Ohio State University, Ph.D. (1985).

NELSON, WILLIAM G.
Professor Emeritus, Engineering, School of Engineering. Oregon State University, B.S. (1966), M.S. (1970), Ph.D. (1972).

NOBLE, PATRICIA A.
Instructor, Office Management and Technology, College of Business and Public Policy, Kenai Peninsula College. California State University, B.S.

NOBLE, RAYMOND O.
Associate Professor, Electronics Technology, Community and Technical College. Alaska Pacific University, B.A. (1988); University of Alaska Anchorage, M.S. (1995).

NOREEN, RAYLENE E.
Associate Professor, Business Administration, Accounting, College of Business and Public Policy, Kenai Peninsula College. University of Maryland, B.S. (1975); Central Michigan University, M.A. (1978); Nova Southeastern University, Ph.D. (1994).

NUNNALLY, JOSEPH C.
Professor, English, College of Arts and Sciences. Texas Tech University, B.A. (1964), M.A. (1965), Ph.D. (1968).

O'BRIEN, DREW
Assistant Professor, Mechanical Technology, Community and Technical College, Kenai Peninsula College.

O'DELL, KATHLEEN D.
Associate Professor, Education, College of Health, Education, and Social Welfare. Southern Illinois University, B.S. (1966), M.S. (1973); University of Oregon, Ph.D. (1980).

O'REILLY, KENNETH
Professor, History, College of Arts and Sciences. University of Detroit, B.A. (1973); Central Michigan University, M.A. (1975); Marquette University, Ph.D. (1981).

OLIVARES, WALTER G.
Associate Professor, Music, College of Arts and Sciences. Texas Tech University, B.A. (1976), M.A. (1976).

OLOFSSON, JOHN A.
Associate Professor, Civil Engineering , School of Engineering. Clarkson College of Technology, B.S. (1968); Syracuse University, M.S. (1972); University of Maine, Ph.D. (1977).

ORR, SYLVIA M.
Professor Emeritus, Medical Laboratory Technology, Community and Technical College. University of Washington, B.S. (1972), M.S. (1974), Ph.D. (1982).

OVERPECK, NANCY K.
Associate Professor, Culinary Arts/Dietetics and Nutrition, Community and Technical College. University of Miami, B.S. (1960); University of Illinois, M.S. (1963); Oregon State University, Ed.D. (1994).

OWENS, JESSE L.
Associate Professor, Biological Sciences, Biomedical Program, College of Arts and Sciences. University of Alaska Anchorage, B.S. (1983); University of Alaska Fairbanks, Ph.D. (1987).

PAJOT, MICHAEL E.
Professor, Sociology, College of Arts and Sciences. Mt. Angel Seminary College, B.A. (1959); University of Oregon, M.A. (1970).

PANTALEONE, JAMES T.
Assistant Professor, Physics, College of Arts and Sciences. University of Illinois, B.S. (1979); Cornell University, M.S. (1982), Ph.D. (1985).

PARRISH, GREG M.
Professor, Physics, Astronomy, College of Arts and Sciences. Murray State University, B.A. (1968), M.S. (1969).

PARRY, DOUG J.
Professor, Communication, College of Arts and Sciences. University of the Pacific, Stockton, California, B.A. (1979); West Virginia University, M.A. (1981); Ohio University, Ph.D. (1990).

PARTEN, JANICE A.
Director, Human Resources. Cooke County Community College, A.A. (1971); University of Denver, B.A. (1973); University of North Texas, M.B.A. (1983).

PASCH, ANNE
Professor Emeritus, Geology, College of Arts and Sciences. University of Wisconsin, B.S. (1958); Alaska Methodist University, M.A. (1972).

PATTERSON-TURNER, REBECCA H.
Professor, English, College of Arts and Sciences. University of Colorado, B.A. (1967); Colorado State University, M.A. (1971); Fielding Institute, Ph.D. (1987).

PEARCE, CATHRYN J.
Assistant Professor, History, College of Arts and Sciences, Kenai Peninsula College. University of Alaska Fairbanks, B.A. (1985); M. Ed. (1987); University of Victoria, M.A. (1993).

PEARCE, FREDERICK W.
Associate Professor, Journalism and Public Communications, College of Arts and Sciences. Iona College, B.A. (1973); University of Pittsburgh, M.A. (1975), Ph.D. (1990).

PEARSON, LARRY L.
Associate Professor, Journalism and Public Communications, College of Arts and Sciences. University of Minnesota, B.A. (1964); University of Wisconsin, Madison, M.A. (1971); University of Minnesota, Ph.D. (1990).

PEARSON, ROBERT E.
Professor, Aviation Technology, Community and Technical College. University of Illinois, B.S. (1966); University of Alaska Juneau, M.S. (1985).

PETERS, GERARD J., JR.
Assistant Professor, Accounting, College of Business and Public Policy. St. Joseph's University, B.S. (1966).

PETERSEN, JUDITH A.
Professor, Nursing Science-Associate of Applied Science Program (Chair), College of Health, Education, and Social Welfare. Mount Marty College, B.S.N. (1966); University of Nebraska, M.S.N. (1976).

PETERSEN, LANCE W.
Assistant Professor, Humanities, College of Arts and Sciences, Kenai Peninsula College. Alaska Methodist University, B.A. (1964); Alaska Pacific University, M.L.A. (1994).

PETERSON, KIM M.
Professor, Biological Sciences (Chair), College of Arts and Sciences. Eastern Montana College, B.S. (1972); Duke University, Ph.D. (1978).

PETRAITIS, JOHN M.
Associate Professor, Psychology, College of Arts and Sciences. University of Minnesota, B.A. (1983); Loyola University, M.A. (1987), Ph.D. (1990).

PFEIFFER, KARL T.
Assistant Professor, Sociology, College of Arts and Sciences. Loyola University of Chicago, B.S. (1978), M.A. (1981); South Dakota State University, Ph.D. (1993).

PFLAUM, JACQUELINE S.
Associate Professor, Nursing Science-Bachelor of Science and Master of Science Program (Chair), College of Health, Education, and Social Welfare. St. Olaf College, B.S.N. (1969); University of Hawaii, M.S. (1979), M.P.H. (1979); University of San Diego, D.N.Sc. (1997).

POOLE, ROY R.
Associate Professor, Counseling, Student Affairs. San Francisco State College, B.A. (1967); University of Oregon, M.A. (1970), Ph.D. (1973).

PORTER, BRUCE D.
Assistant Professor, Computer Electronics, Community and Technical College, Kenai Peninsula College. University of Akron, B.S. (1974).

PREDEGER, ELIZABETH J.
Associate Professor, Nursing, College of Health, Education, and Social Welfare. University of Alaska Anchorage, B.S.N. (1980), M.S. (1986); University of Colorado, Ph.D. (1995).

PROTASEL, GREG J.
Associate Professor, Public Administration, College of Business and Public Policy. University of Redlands, B.A. (1969); University of Michigan, Ph.D. (1977).

PYRAH, FREDRICK W.
Associate Professor, Culinary Arts, Community and Technical College. Brigham Young University, B.S. (1958).

QUIMBY, T. BARTLETT
Associate Professor, Civil Engineering, School of Engineering. Brigham Young University, B.S. (1981), M.S. (1982), Ph.D. (1988).

RA, JANG W.
Associate Professor, Engineering Management, School of Engineering. Han-Yang University, Seoul, Korea, B.S. (1981); University of Bridgeport, M.S. (1983); University of Pittsburgh, M.S. (1987), Ph.D. (1988).

REIDER, BARBARA POWELL
Associate Professor, Accounting, College of Business and Public Policy. Kent State, B.B.A. (1983); Ohio State, M.A. (1986); Kent State, Ph.D. (1991).

REINART, SARA L.
Associate Professor, Mathematical Sciences, College of Arts and Sciences, Kenai Peninsula College. Washburn University, B.A. (1976), B.S. (1986); Alaska Pacific University, M.A.T. (1991).

REMUS, EMIL H.
Professor, Auto-Diesel Technology, Community and Technical College. University of Wisconsin, B.S. (1974); University of Wisconsin-Stout, M.S. (1980).

REUER, QUENTIN B.
Assistant Professor, Biological Sciences, College of Arts and Sciences. South Dakota State University, B.S. (1981); Montana State University, Ph.D. (1987).

REY, ARSENIO
Professor, Languages, (Associate Chair, Romance Languages), College of Arts and Sciences. Escolasticado El Pilar, Madrid, B.A. (1960); Universidad Maria Cristina, Madrid, M.A. (1962); New York University, Ph.D. (1974).

RIEGER, LISA R.
Associate Professor, Justice, College of Health, Education, and Social Welfare. Yale University, B.A. (1979); Cambridge University, M.Ph. (1989); Hastings Law School, University of California, J.D. (1983).

RILEY, JOHN P.
Assistant Professor, Justice, College of Health, Education, and Social Welfare. University of Delaware, B.A. (1979), M.A. (1983), Ph.D. (1988).

RISLEY, TODD R.
Professor, Psychology, College of Arts and Sciences. San Diego State University, A.B. (1960); University of Washington, M.S. (1963), Ph.D. (1966).

ROGERS, JOHN J.
Associate Professor, Electronics Technology, Community and Technical College, Matanuska-Susitna College. University of Washington, B.A. (1973).

ROHACEK, JERRY K.
Professor, Economics, College of Business and Public Policy. California State College, B.S. (1967); University of California, M.A. (1968).

ROLLINS, ALDEN M.
Government Documents Librarian; Professor, Library Science, Consortium Library. The American University, B.A. (1968); University of Rhode Island, M.L.S. (1973).

ROLSTON, JOHN S.
Associate Professor, Philosophy, College of Arts and Sciences. University of California at Riverside, B.A. (1962); University of Washington, M.A. (1967).

ROSICH, ROSELLEN M.
Associate Professor, Psychology (Chair), College of Arts and Sciences. Ohio State University, B.A. (1974); University of Nebraska at Omaha, M.A. (1980); West Virginia University, Ph.D. (1988).

ROSS, LARRY L.
Professor, Economics, College of Business and Public Policy. University of Oregon, B.S. (1968), M.S. (1971).

RUBIN, JERILYN G.
Associate Professor, Business Administration, College of Business and Public Policy. Ithaca College, New York, B.A. (1968); State University of New York, M.A. (1974); Alaska Pacific University, M.B.A. (1991).

RYAN, SUSAN M.
Associate Professor, Special Education, College of Health, Education, and Social Welfare. Mount Saint Mary College, B.A. (1976); University of Vermont, M.Ed. (1980); University of Oregon, Ph.D. (1991).

SABO, WILLIAM P.
Assistant Professor, Art, College of Arts and Sciences. San Francisco Art Institute, B.F.A. (1974).

SANDBERG, KATE E.
Associate Professor, English/ASL/ESL (Chair), College of Arts and Sciences. University of Colorado, B.S. (1973); University of Alaska, M.S. (1976); Boston University, D.ED. (1993).

SANDERS, NANCY L.
Associate Professor, Nursing, College of Health, Education, and Social Welfare. University of Oregon, B.S. (1969); University of Washington, M.N. (1981).

SATHER, CURTIS E.
Professor, Technology, Community and Technical College. Northern Arizona University, B.S. (1978); University of Alaska Anchorage, M.S. (1993).

SCHAFER, NANCY E.
Professor, Justice, College of Health, Education, and Social Welfare. University of Rochester, B.A. (1961); University of Michigan, M.A. (1971), Ph.D. (1977).

SCHNORR, JANICE M.
Professor, Teacher Education, College of Health, Education, and Social Welfare. University of Wisconsin, B.S. (1967), M.S. (1970); University of Arizona, Ph.D. (1976).

SCHOTT, HANNA L.
Professor, Mathematics, College of Arts and Sciences, Kenai Peninsula College. Central Washington State College, B.A. (1963); Central Washington University, M.A.T. (1983).

SCHROEDER, HERBERT F.
Associate Professor, Civil Engineering, School of Engineering. University of Alaska Fairbanks, B.S. (1981); Oregon State University, M.S. (1988); University of Colorado, Ph.D. (1991).

SCOTT, NETTIE D.
Associate Professor, Social Work, College of Health, Education, and Social Welfare. University of Southwestern Louisiana, B.A. (1965); Louisiana State University, M.S.W. (1970).

SEARS, ALICE L.
Professor, English, College of Arts and Sciences. Western Oregon State College, B.S. (1962), M.S. (1970).

SEARS, STANLEY E.
Professor Emeritus, Geomatics (Chair), School of Engineering. University of Alaska Fairbanks, B.Ed. (1969).

SEGAL, BERNARD
Director of Center for Alcohol and Addiction Studies, Professor, Health Sciences, College of Health, Education, and Social Welfare. The City University of New York, B.B.A. (1960), M.S.E. (1963); University of Oklahoma, Ph.D. (1967).

SELK, GARY L.
Professor, Business Administration, College of Business and Public Policy. University of Hawaii, B.B.A. (1974); University of Alaska, M.B.A. (1977).

SELKREGG, LIDIA L.
Professor Emeritus, Public Administration/Planning, College of Business and Public Policy. Doctor of Natural Science, University of Florence, Italy (1943).

SEXTON, TOM F.
Professor Emeritus, English, College of Arts and Sciences. Salem State College, B.A. (1968); University of Alaska Fairbanks, M.F.A. (1970).

SHAFFER, BOYD J.
Instructor, Art, Science, College of Arts and Sciences, Kenai Peninsula College. The Sorbonne.

SHAW, DONNA GAIL
Professor, Education, College of Health, Education, and Social Welfare. Stephen F. Austin State University, B.S. (1978), M.Ed. (1979); North Texas State University, Ph.D. (1984).

SHEPRO, CARL E.
Associate Professor, Political Science, College of Arts and Sciences. Seattle University, B.A. (1965); University of Washington, M.A. (1974), Ph.D. (1985).

SHRADER, CHERIE L.
Associate Professor, Office Management and Technology, College of Business and Public Policy. University of Alaska Anchorage, B.A. (1974), M.Ed. (1980).

SIRLES, ELIZABETH A.
Professor, Social Work (Chair), College of Health, Education, and Social Welfare. University of Kansas, B.G.S. (1978), M.S.W. (1980); Washington University, Ph.D. (1984).

SITTER, CLARA L.
Curriculum/Reference Librarian; Associate Professor, Library Science, Consortium Library. University of Oklahoma, Norman, B.A. (1962); The University of Texas at Austin, M.L.S. (1966); University of Colorado at Boulder, Ph.D. (1982).

SKORE, TOM TAYLOR
Associate Professor, Theatre & Dance, College of Arts and Sciences. University of Wisconsin, B.S. (1972); University of Illinois, M.A. (1975); Florida State University, M.F.A. (1977).

SMILEY, LEONARD M.
Associate Professor, Mathematical Sciences, College of Arts and Sciences. Boston College, B.A. (1967); University of Notre Dame, M.A. (1970), Ph.D. (1979).

SMITH, CHERYL E.
Associate Professor, Counseling, Student Services and Community and Technical College. Gonzaga University, B.A. (1968); University of LaVerne, M.S. (1987).

SMITH, TIMOTHY C.
Professor, Music (Chair), College of Arts and Sciences. University of Washington, B.A., B.M. (1978); Juilliard, M.M. (1980); State University of New York at Stony Brook, D.M.A. (1985).

SNYDER, CYNDI
Director, Residence Life. University of Maryland, B.S. (1985); University of Rochester, M.S. (1991).

SPALINGER, DONALD E.
Associate Professor, Biological Sciences, College of Arts and Sciences. Humboldt State University, B.S. (1974); University of Nevada, M.S. (1980); Washington State University, Ph.D. (1985).

SPATZ, RONALD M.
Professor, Creative Writing and Literary Arts (Chair), College of Arts and Sciences. University of Iowa, B.A. (1971), M.F.A. (1973).

SRINIVASAN, RAM
Professor, Chemistry, Biomedical Science, College of Arts and Sciences. University of Madras, India, B.S. (1964), M.S. (1966); University of Saskatchewan, Ph.D. (1971).

SRIVASTAVA, SURESH C.
Associate Professor, Finance, College of Business and Public Policy. Patna University, B.Sc. (1961), M.Sc. (1963); University of Calgary, M.Sc. (1974), M.B.A. (1979); University of Maryland, Ph.D. (1987).

STARLINGS, CABLE P.
Associate Professor, Education, College of Health, Education, and Social Welfare. California State University, B.A. (1977); University of Alaska Anchorage, M.Ed. (1982); University of Northern Colorado University, Ph.D. (1987).

STAUFFER, DEBORAH W.
Associate Dean; Professor, Dental Hygiene, Community and Technical College. University of Alaska, B.S. (1976), M.S. (1982); University of Southern California, Ed.D. (1987).

STEFFY, DENNIS D.
Director, Mining and Petroleum Training Services. Indiana University of Pennsylvania, B.S. (1968), M.S. (1969).

STEFFY, GINGER I.
Director, Kenai Peninsula College, Instructor, Physics. Indiana University of Pennsylvania, B.S. (1968); M.S. (1969).

STEPHENSON, KATHLEEN S.
Assistant Professor, Nursing, College of Health, Education, and Social Welfare. University of Northern Colorado, B.S. (1979); M.A. (1994); University of Colorado, M.S. (1984).

STEVENS, GARY L.
Professor, Speech and History, College of Arts and Sciences, Kodiak College. Linfield College, B.A. (1963); University of Oregon, M.F.A. (1970), Ph.D. (1984).

STOLLER, LYN
Manager, Disability Support Services, Student Affairs.

STRATTON, MARCIA R.
Assistant Professor, Communication (Chair), Co-Director, Women's Studies, College of Arts and Sciences. Wilkes University, B.S. (1978); University of North Carolina, M.Ed. (1979); Southern Illinois University, Ph.D. (1991).

STRID-CHADWICK, KAREN S.
Associate Professor, Music, College of Arts and Sciences. Washington State University, B.A. (1978); University of Alaska Fairbanks, M.A. (1991).

SUBRAMANIAN, RAMESH
Associate Professor, Management Information Systems, College of Business and Public Policy. Madras University, India, B.Sc.(1980); Rutgers University, M.B.A. (1990), Ph.D. (1992).

SUBRAMANIAN, RAMYA
Assistant Professor, Library and Information Studies, Consortium Library. Madras University, India, B.A. (1984), M.A. (1984), M.Ph. (1990); Rutgers University, M.L.S. (1992).

SVEINBJORNSSON, BJARTMAR
Professor, Biological Sciences (Chair), College of Arts and Sciences. University of Iceland, B.S. (1972); McGill University, Ph.D. (1979).

SWARTZ, CAROL I.
Kachemak Bay Branch Director, Kenai Peninsula College.

THIRU, KANAPATHI (SAM)
Associate Professor, Applied Statistics, Mathematical Sciences, College of Arts and Sciences. University of Ceylon, Sri Lanka, B.S. (1974); University of California at Riverside, M.S. (1979), Ph.D. (1980).

THOMPSON, DIANE L.
Assistant Professor, Developmental Education, Community and Technical College. South Dakota School of Mines and Technology, B.S. (1980); University of Alaska Anchorage, M.A. (1993).

TOEBE, DIANE M.
Associate Professor, Nursing, College of Health, Education, and Social Welfare. Central Michigan University, B.A. (1970); New York Medical College, M.S. (1972); United States International University, Ph.D. (1982); University of Alaska Anchorage, M.P.A. (1983).

TROSTLE, LAWRENCE C.
Associate Professor, Justice, College of Health, Education, and Social Welfare. California State University at Los Angeles, B.S. (1967); University of Redlands, M.A. (1983); Claremont Graduate School, M.A. (1985), Ph.D. (1986).

TUCK, BRADFORD H.
Professor, Economics, College of Business and Public Policy. Boston University, A.B. (1963), A.M. (1964), Ph.D. (1973).

TURK, DAN E.
Assistant Professor, Management Information Systems, College of Business and Public Policy. Southern College of Seventh-day Adventists, B.A. (1984); Andrews University, M.S. (1988).

TURNER, A. ALLAN
Professor, Education, College of Health, Education, and Social Welfare. Lakehead University, B.Ed. (1975), M.Sc. (1977); University of Alberta, Ph.D. (1982).

TURNER, MICHAEL T.
Professor, Counseling, Student Affairs. Williamette University, B.A. (1969); Alaska Pacific University, M.S. (1993).

VAN DOMMELEN, DORN
Assistant Professor, Geography, College of Arts and Sciences. Pennsylvania State University, B.Sc. (1985); University of Kentucky, M.A. (1988);University of Toronto, Ph.D. (1996).

VELTRE, DOUGLAS W.
Professor, Anthropology, College of Arts and Sciences. Brown University, B.A. (1970); University of Connecticut, M.A. (1973), Ph.D. (1980).

WAHTO, ROBIN J.
Associate Professor, Medical Assisting, Community and Technical College. University of New Hampshire, B.S. (1975).

WALLE, DENNIS F.
Archivist and Manuscripts Curator; Assistant Professor, Library Science, Consortium Library. DePaul University, B.A. (1960), M.A. (1968).

WALLSTROM, TIMOTHY J.
Assistant Professor, Health, Outdoor, and Physical Education, College of Health, Education, and Social Welfare. California State University, B.S. (1983), M.S. (1987); Ohio State University, Ph.D. (1993).

WARD, KAREN M.
Director, Center for Human Development (UAP), College of Health, Education, and Social Welfare. Associate Professor, Psychology, College of Arts and Sciences. Moravian College, B.A. (1973); University of Missouri, M.A. (1975); University of Southern California, Ed.D. (1987).

WARREN, GARLYN R.
Professor Emeritus, Business Computer Information Systems, College of Business and Public Policy. University of California, B.S. (1964); University of Alaska, M.S. (1978).

WARTINBEE, DAVID C.
Assistant Professor, Biology, College of Arts and Sciences, Kenai Peninsula College. Clarion University, B.A. (1969), M.S. (1972); University of Pittsburgh, Ph.D. (1975); Thomas M. Cooley Law School, J.D. (1993).

WEBER, BOBBI
Director, Advising and Counseling Center, Student Affairs. Minot State University, B.A. (1971); University of North Dakota, M.A. (1986).

WEISS, LAWRENCE D.
Professor, Sociology, College of Arts and Sciences. University of California at Santa Cruz, B.A. (1968); University of New Mexico, M.A. (1972); State University of New York at Binghamton, Ph.D. (1979).

WEYAND, KENNETH B.
Professor, Aviation Technology, Community and Technical College. University of Illinois, B.S. (1969), M.Ed. (1971).

WHEELER, N. JILL
Associate Professor, Special Education, College of Health, Education, and Social Welfare. Ball State University, B.S. (1975); Michigan State University, M.A. (1981); Ball State University, Ed.D. (1988).

WHITNEY, SHAWNALEE A.
Assistant Professor, Communication, Co-Director, Forensics, College of Arts and Sciences. University of Northern Colorado, B.A. (1986), M.A. (1987).

WICK, BRIAN D.
Professor, Mathematical Sciences, College of Arts and Sciences. San Diego State University, B.S. (1966), M.S. (1968); University of Washington, Ph.D. (1972).

WIDDICOMBE, RICHARD (TOBY)
Associate Professor, English, College of Arts and Sciences. Cambridge University, England, B.A. (1977), M.A. (1981); University of California, Irvine, M.A. (1979), Ph.D. (1984);

WILDE, PAMELA A.
Associate Professor, Nursing, College of Health, Education, and Social Welfare. University of Oregon, B.S. (1978); University of Utah, M.S. (1985).

WILLIAMS, BRIAN K.
Instructor, Electronics Technology, Community and Technical College.

WILLIAMS, KANDACE JO
Associate Professor, Biological Sciences, Biomedical Program, WWAMI, College of Arts and Sciences. University of Alaska Anchorage, B.S. (1980); Dartmouth Medical School, Ph.D. (1987).

WILSON, JAMES R.
Professor Emeritus, English, College of Arts and Sciences. University of Tulsa, B.A. (1947), M.A. (1949); University of Oklahoma, Ph.D. (1953).

WILSON-MARSH, ROZANNE M.
Associate Professor, Music, College of Arts and Sciences. University of Charleston, Morris Harvey College, B.A. (1964); University of Alaska Fairbanks, M.A. (1992).

WISCHER, KATHLEEN
Associate Professor, Office Management and Technology, College of Business and Public Policy, Kodiak College. Western Michigan University, B.S. (1968); University of Idaho, M.Ed. (1994).

WOLBERS, MARK E.
Associate Professor, Music, College of Arts and Sciences. Michigan State University, B.M. (1981); University of Michigan, M.M. (1985), D.M.A. (1990).

WOLFE, WENDELL
Professor Emeritus, Education, College of Health, Education, and Social Welfare. North Texas University, B.S. (1948); Texas College of Arts and Sciences, M.S. (1952); University of Texas, Ph.D. (1965).

WOLFRAM, VERN A.
Visiting Assistant Professor, Culinary Arts, Community and Technical College.

WOOD, DARRYL S.
Assistant Professor, Justice, College of Health, Education, and Social Welfare. New Mexico State, B.C.J. (1987), M.C.J. (1989). Simon Fraser University, Ph.D. (1997).

WOOLARD, CRAIG R.
Assistant Professor, Environmental Engineering, School of Engineering. Montana State University, B.S. (1988); University of Notre Dame - Center for Bioengineering and Pollution Control, Ph.D. (1993).

WORKMAN, WILLIAM B.
Professor, Anthropology, College of Arts and Sciences. University of Wisconsin, B.A. (1963), M.A. (1969), Ph.D. (1974).

YEN, MINNIE YE-MIN
Associate Professor, Computer Information Office Systems (Chair), College of Business and Public Policy. National Cheng-Chi University, B.S. (1978); University of Houston, M.B.A. (1980), Ph.D. (1989).

YESNER, DAVID R.
Professor, Anthropology, College of Arts and Sciences. Cornell University, B.A. (1971); University of Connecticut, M.A. (1974), Ph.D. (1977).

YOUNG, DARYL A.
Student Health Center Manager. Certified Family Nurse Practitioner. Alaska Methodist University, B.S. (1976); University of Alaska Anchorage, M.S. (1983).

ZAGORSKI, RAYMOND F.
Associate Professor, Business Administration, College of Business and Public Policy, Kenai Peninsula College. Wayne State University, B.S. (1969), M.B.A. (1970).

ZEIGER, SPENCER J.
Associate Professor, Social Work, College of Health, Education, and Social Welfare. University of California, B.A. (1972); California State University, M.A. (1983); University of Washington, M.S.W. (1986), Ph.D. (1989).

ZIMMERMAN, CYNTHIA J.
Assistant Professor, Dental Assisting, Community and Technical College. Wayland Baptist University, B.S. (1996).

ZUBECK, HANNELE K.
Assistant Professor, Civil Engineering, School of Engineering. University of Technology, Finland, M.S. (1985); Oregon State University, Ph.D. (1993).

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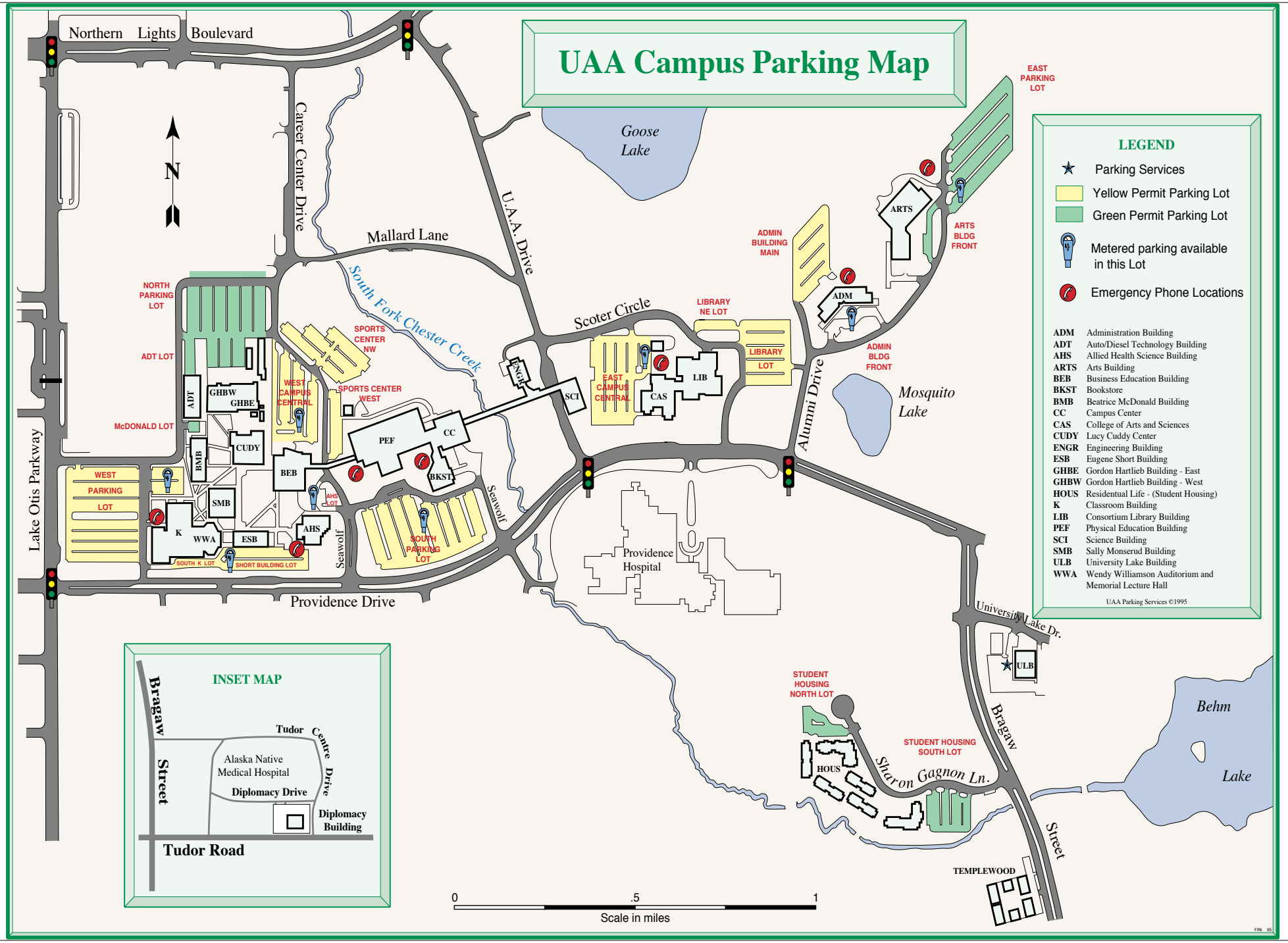
UAA Campus Parking Map
Northern Lights Boulevard
Career Center Drive
Mallard Lane
U.A.A. Drive
Goose Lake
Scoter Circle
South Fork Chester Creek
Lake Otis Parkway
Providence Drive
Alumni Drive
Seawolf
Mosquito Lake
Providence Hospital
University Lake Dr.
Bragaw Street
Sharon Gagnon Ln.
Behm Lake
Tudor Road
Tudor Centre Drive
Diplomacy Drive
Alaska Native Medical Hospital
Diplomacy Building
INSET MAP
NORTH PARKING LOT
ADT LOT
McDONALD LOT
WEST PARKING LOT
SOUTH K LOT
SHORT BUILDING LOT
SPORTS CENTER NW
SPORTS CENTER WEST
WEST CAMPUS CENTRAL
EAST CAMPUS CENTRAL
SOUTH PARKING LOT
AHS LOT
LIBRARY NE LOT
LIBRARY LOT
ADMIN BUILDING MAIN
ADMIN BLDG FRONT
ARTS BLDG FRONT
EAST PARKING LOT
STUDENT HOUSING NORTH LOT
STUDENT HOUSING SOUTH LOT
TEMPLEWOOD
ADT
GHBW
GHBE
CUDY
BMB
BEB
PEF
CC
BKST
SMB
K
WWA
ESB
AHS
ENGR
SCI
CAS
LIB
ADM
ARTS
HOUS
ULB
LEGEND
Parking Services
Yellow Permit Parking Lot
Green Permit Parking Lot
Metered parking available in this Lot
Emergency Phone Locations
ADM Administration Building
ADT Auto/Diesel Technology Building
AHS Allied Health Science Building
ARTS Arts Building
BEB Business Education Building
BKST Bookstore
BMB Beatrice McDonald Building
CC Campus Center
CAS College of Arts and Sciences
CUDY Lucy Cuddy Center
ENGR Engineering Building
ESB Eugene Short Building
GHBE Gordon Hartlieb Building - East
GHBW Gordon Hartlieb Building - West
HOUS Residentual Life - (Student Housing)
K Classroom Building
LIB Consortium Library Building
PEF Physical Education Building
SCI Science Building
SMB Sally Monserud Building
ULB University Lake Building
WWA Wendy Williamson Auditorium and Memorial Lecture Hall
UAA Parking Services ©1995
0 .5 1
Scale in miles